

**GLOUCESTER SECURITY OF
SUPPLY
WATER PIPELINE
WORCESTERSHIRE AND
GLOUCESTERSHIRE**

ARCHAEOLOGICAL EVALUATION

For

SEVERN TRENT WATER LIMITED

CA PROJECT: 2901
CA REPORT: 09137

AUGUST 2009


**COTSWOLD
ARCHAEOLOGY**



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CA PROJECT: 2901
CA REPORT: 09137

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SUMMARY

Project Name:	Gloucester Security of Supply Water Pipeline
Location:	Strensham Water Treatment Works, Worcestershire to Knightsbridge, Gloucestershire
NGR:	SO 9175 3948 to SO 8917 2686
Type:	Evaluation
Date:	20 July to 12 August 2009
Location of Archive:	To be deposited with Worcestershire County Museum Service
Site Code:	SOS 09

An archaeological evaluation was undertaken by Cotswold Archaeology between July and August 2009 on land between Strensham, Worcestershire and Knightsbridge, Gloucestershire. A total of 88 trenches was excavated. Archaeological activity represented by cut features and artefacts dating from the Bronze Age to the modern period was represented.

A single Late Bronze Age/Early Iron Age ditch was the earliest activity identified. At least four possible settlement sites dating to the late prehistoric period were also identified, represented by trackways, enclosure ditches and two possible roundhouses indicated by a preceding geophysical survey.

The evaluation also established that Roman activity, continuing into the 4th century AD, was present in the form of enclosures, field ditches and pits on three of the sites where late prehistoric settlement has been identified.

Evidence for medieval, post-medieval and/or modern agricultural practice, comprising field boundary ditches, furrows and field drains, was also identified along the route of the evaluation. An undated possible grave cut was also identified.

The evaluation indicates that deposits dating from the Bronze Age, Iron Age, Roman and medieval periods, together with undated features, some of which pre-date the medieval/post-medieval ridge and furrow cultivation, survive at a depth of between 0.3m and 0.65m below the modern ground surface.

1. INTRODUCTION

- 1.1 Between July and August 2009 Cotswold Archaeology (CA) were commissioned by ARCUS to carry out an archaeological evaluation for Severn Trent Water Limited on land between Strensham Water Treatment Works, Worcestershire SO 9175 3948 and Knightsbridge, Gloucestershire SO 8917 2686. The evaluation was undertaken to assess the potential for archaeological deposits along the length of a proposed water pipeline route.
- 1.2 The archaeological evaluation was carried out in accordance with a Written Scheme of Investigation (WSI) prepared by ARCUS (ARCUS 2009) and approved by Mike Glyde, Planning Archaeologist, Worcestershire County Council and Charles Parry, Senior Archaeological Officer, Gloucestershire County Council. It has been guided in its composition by the *Standard and Guidance for archaeological field evaluation* issued by the Institute for Archaeologists (IfA 2008), the *Statement of Standards and Practices Appropriate for Archaeological Fieldwork in Gloucestershire* (GCC 1995), the *Requirements and Guidelines for Archaeological Projects in Worcestershire*, the *Management of Archaeological Projects* (English Heritage 1991) and the *Management of Research Projects in the Historic Environment (MORPHE; EH 2006)*. It was monitored by Mike Glyde, Planning Archaeologist, Worcestershire County Council including a site visit on 28 July 2009 and Charles Parry, Senior Archaeological Officer, Gloucestershire County Council including a site visit on 6 August 2009.

Pipeline route and landuse

- 1.3 The pipeline route runs east from Strensham Water Treatment Works in Worcestershire (SO 9175 3948) to the River Avon, where it then turns southeast, running to the south of Bredon's Norton and continues on a similar alignment, running between Westmancote and Lower Westmancote and to the east of Kinsham. It then heads south towards Aston on Carrant, across an area of former quarrying. It runs to the east of Aston, and then heads in a south-westerly direction, to the eastern sides of Pamington, Fiddington and Tredington, before terminating immediately north of Knightsbridge (SO 8917 2686). The pipeline is approximately 17km in length.

- 1.4 The current land use predominantly consists of arable and pasture fields, crossing several roads, watercourses and a railway.

Geology

- 1.5 The following summary of the solid and drift geology of the route corridor is based upon the BGS Solid and Drift 1:50,000 Sheets 216 (BGS 1988). Drift deposits of river alluvium and river terrace sands and gravels are depicted on the maps.
- 1.6 The solid geology of the survey corridor comprises Lower Lias deposits (mainly clays) of the Jurassic period. These solid deposits are overlain by river alluvium to the north-west of Bredon's Norton, within the floodplain of the River Avon. Quaternary period Second Terrace River deposits (predominantly gravels and sands) associated with the River Avon and its tributaries were confined to the north of the pipeline route from Westmancote to Kinsham and surrounding Aston on Carrant.

Archaeological background

- 1.7 The archaeological potential of the site has been investigated in an Archaeological Desk-Based Assessment (DBA) by ARCUS (ARCUS 2008). Subsequently geophysical surveys were undertaken by Phase Site Investigations (Phase Site Investigations 2009a, 2009b, 2009c). The results of the DBA and geophysical surveys are summarised below.
- 1.8 The route contains numerous sites and features of archaeological interest ranging in date from the Palaeolithic to the post-medieval periods, with clusters of known prehistoric to Roman sites in the vicinity of Bredon's Norton and Kemerton. There are widespread medieval earthworks, mainly agricultural in nature, but including potential shrunken village remains at Fiddington, in the vicinity of the pipeline route.
- 1.9 The geophysical survey (Phase Site Investigations 2009) identified a number of probable and possible archaeological features, including specific clusters in Fields 31, 33, 45, 76 and 77. A dense area of features was revealed in Fields 76-77, to the southwest of Bredon's Norton, possibly reflecting multi-phase activity of prehistoric to medieval date, and including probable rectangular or sub-rectangular enclosures. Field 45 contains two distinct sub-rectangular enclosures and a pair of linear ditches. Fields 31 and 33 contain a number of probable archaeological features, including possible enclosure ditches and a circular feature. The survey also indicated a

number of dispersed linear features and possible pits along the route, and widespread remains of medieval to post-medieval ridge and furrow cultivation.

Archaeological objectives

- 1.10 The objectives of the evaluation were to establish the character, quality, date and extent of any archaeological remains or deposits surviving within the site. The results of the evaluation will be used to develop strategies for further survey, investigation and appropriate mitigation, if required. Any such further surveys, investigations and mitigation will be the subject of specific detailed Written Schemes of Investigation for each element, which will be submitted for approval by Gloucestershire and Worcestershire County Council Archaeology Services in advance of works commencing on site.

Methodology

- 1.11 In variance to the 170 trenches proposed in the WSI, the fieldwork comprised the excavation of 88 trenches in 44 fields (Figs 2 to 8). The remaining proposed trenches could not be excavated due to access restrictions at the time of the evaluation, and the variation to the WSI was agreed with both Mr Glyde and Mr Parry. All of the trenches excavated were 20m in length and 2m in width. They were positioned along the length of the proposed pipeline route taking in to account any anomalies highlighted by the geophysical survey.
- 1.12 All trenches were excavated by mechanical excavator equipped with a toothless grading bucket. All machine excavation was undertaken under constant archaeological supervision to the top of the first significant archaeological horizon or the natural substrate, whichever was encountered first. Where archaeological deposits were encountered they were excavated by hand in accordance with CA Technical Manual 1: *Fieldwork Recording Manual* (2007).
- 1.13 Deposits were assessed for their palaeoenvironmental potential in accordance with CA Technical Manual 2: *The Taking and Processing of Environmental and Other Samples from Archaeological Sites* (2003), however, none with any such potential were identified and no samples were taken. All artefacts recovered were processed in accordance with CA Technical Manual 3: *Treatment of Finds Immediately After Excavation* (1995).

- 1.14 The archive and artefacts from the evaluation are currently held by CA at their offices in Kemble. Subject to the agreement of the legal landowner the artefacts will be deposited with Worcestershire County Museum Service and Cheltenham Museum and Art Gallery along with the site archive. A summary of information from this project, set out within Appendix C, will be entered onto the OASIS online database of archaeological projects in Britain.

2. RESULTS (*Figs 2 to 23*)

- 2.1 Features dating to the Bronze Age were identified in field 77. Features dating to the Iron Age were identified in fields 31, 33, 45, 55, 76 and 77. Features dating to the Roman period were identified in fields 33, 76 and 77. Undated features were identified in fields 28, 33, 45, 55, 63, 70, 73, 76, 77, 80 and 177 and furrows dating to the medieval and/or post-medieval periods were identified in trenches 30, 57, 58, 82, 83, 120-122, 124, 131-133, 139, 149, 150, 153-155 and 163 located in fields 18, 33, 45, 63, 66, 69, 70, 73, 77, 78 and 80. Trenches 1-5, 7-10, 16-19, 22-24, 28, 29, 31-34, 46-49, 52, 54, 59, 60, 92-99, 123, 130, 134-137, 156-161 and 164-170 were devoid of archaeological features, these were located within fields 1-3, 5, 6, 11, 12, 14, 15, 17-21, 28, 29, 31, 33, 49-53, 65, 69-72 and 78-82. Trenches 11-15, 20, 21, 25-27, 35-42, 50, 51, 55, 61-81, 84-91, 100-119, 125-129, 138 and 141-145 in Fields 7-10, 13, 16, 22-25, 30, 32, 34-44, 46-48, 54, 56-61, 67, 68, 74 and 75 were not available for excavation.
- 2.2 This section provides an overview of the evaluation results and correlates those results to those of the geophysical survey. Detailed summaries of the recorded contexts and finds are to be found in Appendices A and B. Details of the relative heights of the trenches, expressed as metres Above Ordnance Datum (m AOD), also appear in Appendix A.

Fields 3, 5, 11, 15 and 18 (Figs 2& 3)

- 2.3 Anomalies depicted by geophysical survey and targeted in trenches 5, 7, 17, 24 and 29 were not identified during the evaluation, and do not appear to represent archaeological features.

Field 28**Trench 45 (Figs 4 and 9)**

- 2.4 North-west/south-east orientated ditch 45003 was identified in the centre of the trench. This corresponds with a curvilinear anomaly depicted in the centre of the trench by the geophysical survey. However the linear feature depicted at the northern end of the trench by the geophysical survey was not identified during the evaluation.

Trench 46 (Figs 4 and 9)

- 2.5 The geophysical survey anomalies targeted by this trench were not identified during the evaluation.

Field 31**Trench 53 (Figs 4 and 10)**

- 2.6 North-east/south-west orientated ditch 53003 corresponded with a curvilinear anomaly depicted by the geophysical survey. The single fill, 53004, contained one sherd of late prehistoric pottery.

Trenches 54 & 52 (Figs 4 and 10)

- 2.7 The geophysical survey anomalies targeted by this trench were not identified during the evaluation.

Field 33**Trench 56 (Figs 4 and 11)**

- 2.8 North-west/south-east orientated ditch 56005 (not illustrated (n.i.)) was located at the north-western end of the trench. No dating evidence was recovered from the single fill, 56006, of this ditch, which was cut by north-east/south-west orientated ditch 56002. The secondary fill, 56004, of which contained four sherds of late prehistoric pottery and one piece of fired clay. Also located at the north-western end of the trench was north-east/south-west orientated ditch 56007. Immediately south-east of this ditch was undated ditch terminus/pit 56009. These features correspond with an area of anomalies identified by the geophysical survey.
- 2.9 North/south orientated ditch 56011 and north-east/south-west orientated ditch 56013, were located at the centre and at the south-eastern end of the trench. These features were not excavated; however they probably corresponded to a furrow and curvilinear ditch depicted by the geophysical survey.

Trench 57 (Figs 4, 11 and 20)

- 2.10 North-east/south-west orientated ditch 57003 was located at the centre of the trench, the primary fill, 57009, of which contained one sherd of Roman Severn Valley ware pottery and the secondary fill, 57004, of which contained six sherds of Roman Severn Valley ware pottery and four pieces of animal bone. This corresponds well with an anomaly shown on the geophysical survey. Two probable furrows 57005 and 57007 also correspond with apparent furrows shown by the geophysical survey.

Trench 58 (Figs 4, 11, 19 and 20)

- 2.11 Undated deposit 58007 was cut by north-west/south-east orientated ditch 58003, which in turn was cut by a north-west/south-east orientated ditch 58005, the single fill, 58006 of which contained 15 sherds of mid 3rd to 4th-century pottery and 28 pieces of animal bone. Layer 58007 was also cut by north-west/south-east orientated ditch 58012. The single fill, 58013, contained four sherds of mid 3rd to 4th-century pottery and four pieces of animal bone and was cut by pit 58010. Pit 58010 was cut by pit 58008, which was subsequently cut by possible furrow/ditch 58014, the fill, 58015, of which contained one sherd of Roman pottery.
- 2.12 A curvilinear anomaly depicted at the centre of the trench by the geophysical survey probably corresponded to ditch 58005. The linear feature depicted by the geophysical survey at the centre of the trench corresponded to possible furrow/ditch 58014.

Trench 59 (Figs 4 and 11)

- 2.13 The geophysical survey anomalies targeted by this trench were not identified during the evaluation.

Field 45**Trench 82 (Figs 5, 12, 19 and 21)**

- 2.14 Located in the west of the trench was pit 82003, the single fill, 82004, of which contained one piece of burnt animal bone and one piece of burnt stone. Corresponding with a geophysical survey anomaly at the centre of the trench was curvilinear ditch 82005, the primary fill, 82007, of which contained one sherd of late prehistoric pottery as well as three pieces of animal bone and one piece of fired clay,

the secondary fill, 82006, contained eight sherds of Mid to Late Iron Age pottery. Both these fills were cut by linear north/south orientated ditch 82013, which corresponds well with a sub-rectangular anomaly on the geophysical survey. The primary fill, 82015, of 82013 contained one sherd of Mid to Late Iron Age pottery and two pieces of sheep bone and the secondary fill, 82014 contained one sherd of Mid to Late Iron Age pottery. The secondary fill 82014 of ditch 82013 contained 32 pieces of cow and sheep bones and was subsequently cut by north/south orientated furrow 82017 (possibly a continuation of a probable furrow identified by the geophysical survey to the south of the trench). North/south orientated furrow 82011 was located in the east of the trench. The single fill, 82012, of which contained two sherds of 19th-century pottery as well as four pieces of modern brick and/or tile. This furrow is also identified by the geophysical survey.

Trench 83 (Figs 5, 12 and 21)

- 2.15 North/south orientated furrow 83004 was located at the south-western end of the trench. East/west orientated ditch 83006 was located at the centre of the trench and corresponds with a sub-rectangular anomaly depicted on the geophysical survey. The fill, 83005, contained two sherds of late prehistoric pottery and three pieces of cow and sheep bone as well as fired clay. A north/south orientated anomaly depicted by the geophysical survey corresponded to furrow 83004. This feature is seen in trench 82 as furrow 82011.

Field 50

Trench 94 (Fig. 5)

- 2.16 An anomaly identified in the geophysical survey was not identified during the evaluation.

Field 55

Trench 104 (Figs 6 and 13)

- 2.17 North-east/south-west orientated ditch 104003 was located at the western end of the trench, possibly corresponding with, although on a slightly different alignment to, a feature on the geophysical survey. The single fill, 104004, contained one sherd of pottery dating from the Middle Iron Age to the 1st century AD. To the east of this lay pit 104005, the fill, 104006, of which contained two pieces of burnt clay. North/south orientated ditch 104007 was located at the eastern end of the trench, corresponding with a curvilinear ditch depicted by the geophysical survey.

Field 63**Trench 120 (Figs 7 and 14)**

- 2.18 North-west/south-east orientated ditch 120003 was located at the western end of the trench. The single fill, 120004, of which was devoid of artefactual material. To the east of this lay north-east/south-west orientated furrows 120005 and 120007.

Field 70**Trench 133 (Figs 7 and 15)**

- 2.19 Ditch 133004 was located at the centre of the trench, and was not identified in the geophysical survey. Its single fill, 133003, did not contain any artefactual material. Immediately to the north-east of this ditch lay east/west orientated furrow 133006, corresponding with a probable furrow on the geophysical survey.

Field 73**Trench 140 (Figs 7 and 15)**

- 2.20 An undated, north-west orientated, ditch 140004 was located at the southern end of the trench. This feature lay within an area not subject to geophysical survey.

Field 76**Trench 146 (Figs 8, 17 and 22)**

- 2.21 North-east/south-west orientated ditch 146002 was located at the southern end of the trench, this measured in excess of 5m in width and corresponded with a large feature on the geophysical survey. North-west of this lay pit 146004, which may also correspond with a discrete feature on the geophysical survey. Located in the centre of the trench was ditch 146006. Ditch 146006 probably corresponded to two separate anomalies depicted by geophysical survey at the centre of the trench, a north-east/south-west anomaly and a curvilinear anomaly.. To the north-west of this lay pit 146008. These features remained unexcavated, but are situated within an area of Roman activity identified in Fields 76 and 77. East/west orientated ditch 146010, which measured in excess of 5m in width was located at the northern end of the trench. The fill, 146011, contained 21 sherds of mid 1st to early 2nd-century pottery, three pieces of cattle bone, one piece of fired clay and three pieces of burnt stone. Ditch 146010 corresponded to two separate anomalies depicted by geophysical survey at the north-western end of the trench, and may have formed part of an enclosure with ditch 146002.

Trench 147 (Figs 8, 17 and 22)

- 2.22 North-east/south-west orientated ditch 147002 was located at the centre of the trench and corresponded with a curvilinear anomaly depicted on the geophysical survey. The fill, 147003, of which contained nine sherds Late Iron Age to 1st century pottery and was cut by stone filled land drain 147004. Located at the north-western end of the trench was north-east/south-west orientated ditch 147005, which also probably corresponded with a curvilinear anomaly depicted on the geophysical survey.

Trench 148 (Figs 8, 17 and 22)

- 2.23 North-west/south-east orientated ditch 148007 was located at the south-western end of the trench and corresponded with a curvilinear anomaly depicted on the geophysical survey.. Located at the centre of the trench was pit/ditch terminus 148005, which also probably corresponded with a linear anomaly depicted on the geophysical survey. Both features remained unexcavated. A single sherd of mid 1st to early second century pottery and three sherds of late prehistoric pottery were recovered from the surface of pit/ditch terminus 148005. North-west/south-east orientated ditch 148003 was located at the north-eastern end of the trench which also corresponded with a curvilinear anomaly depicted on the geophysical survey.. The single fill, 148004, of which contained one sherd of Late Iron Age to Early Roman pottery and one piece of sheep bone.

Field 77**Trench 149 (Figs 8, 17 and 23)**

- 2.24 North-east/south-west orientated ditch 149013 was located at the south-eastern end of the trench and was not excavated and remained undated. North-west of this was North-east/south-west orientated ditch 149003, the fill, 149004, of which contained one sherd of Roman pottery and 15 pieces of bone, including dog, cow and sheep.
- 2.25 East/west orientated ditch 149011 was located at the centre of the trench. At the north-western end of the trench was pit/ditch terminus 149009, and north-east/south-west orientated ditches 149007 and 149005. These features were not excavated and no dating evidence was recovered from them.

Trench 150 (Figs 8, 17 and 23)

- 2.26 North-east/south-west orientated ditch 150005 contained one sherd of Late Iron Age to 1st century AD. pottery, one piece of Roman tile and three pieces of sheep bone.

North-east/south-west orientated ditch 150003, which measured 4.6m in diameter was located at the north-western end of the trench. The fill, 150004, contained ten sherds of 2nd to 4th-century pottery and one sherd of late prehistoric pottery, as well as 22 pieces of dog, sheep and cattle bone. Ditches 150005 and 150003 corresponded with curvilinear anomalies depicted by the geophysical survey.

- 2.27 Located at the centre of the trench were a series of north-east/south-west orientated furrows, 150013, 150011, 150009 and 150007. The furrows do not appear on the geophysical survey, although they are on the same alignment as furrows depicted by the geophysical survey in field 75.

Trench 151 (Figs 8, 17 and 23)

- 2.28 East west orientated ditch 151003 was located in the south-eastern part of the trench and remained unexcavated. It was cut by a land drain. Located at the centre of the trench was north-east/south-west orientated ditch 151007, which contained three sherds of Roman pottery, three sherds of late prehistoric pottery and four pieces of animal bone and was cut by north-east/south-west orientated ditch 151008, the secondary fill, 151010, of which contained two sherds of late medieval to early post-medieval pottery, two pieces of Roman pottery and one piece of possible pig bone. North-east/south-west orientated ditch 151005 was located at the north-western end of the trench and remained unexcavated. Ditches 151003, 151008 and 151005 corresponded to east/west orientated anomalies depicted by the geophysical survey.

Trench 152 (Figs 8, 17 and 23)

- 2.29 Located at the north-east end of the trench was north-west/south-east orientated ditch 152004, which measured 9.1m in width. The primary fill 152008 contained no finds, but was cut by modern service trench 152002 (the single fill, 152003 of which contained one sherd of residual Late Iron Age to 1st-century pottery). The secondary fill, 152005, contained one sherd of late prehistoric pottery and fuel ash slag. The tertiary fill, 152006, contained six sherds of Late Bronze Age to Early Iron Age pottery and four pieces of animal bone. The fourth fill, 152007 contained two sherds of Roman pottery. Ditch 152004 corresponded to two north-east south-west orientated anomalies depicted by the geophysical survey.

Trench 153 (Figs 8, 17 and 23)

- 2.30 A group of intercutting features was located within the south-eastern and central parts of the trench. Possible grave cut 153007 was located at the south-eastern end of the trench, the fill 153006 of which contained human bone and was cut by north-east/south-west orientated ditch 153005 (identified by the geophysical survey), the primary fill, 153004 and the secondary fill, 153003, of which did not contain any dateable material. The latter fill was cut by north-east/south-west orientated furrow 153009 (n.i.). At the north-western end of the trench was north-east/south-west orientated ditch 153011, the fill, 153010, of which was cut by north-east/south-west orientated furrow 153013. The furrows correspond well with probable furrows identified by the geophysical survey.

Field 80**Trench 162 (Figs 8 and 18)**

- 2.31 A north/south orientated ditch 162005 was located at the south-western end of the trench. No dateable finds were recovered from the primary or secondary fills, 162004 and 162003 respectively.

Trench 163 (Figs 8 and 18)

- 2.32 Posthole 163003 was located at the south-eastern end of the trench and no dating evidence was recovered from the fill 163004. Located to the south-east of this was East/west orientated furrow 163005 (n.i.).

Field 81**Trenches 166 & 167 (Fig. 8)**

- 2.33 The anomalies depicted by geophysical survey were not identified during the evaluation.

The Finds Evidence

- 2.34 Artefactual material comprising quantities of pottery, animal bone, fired clay, ceramic building material (CBM), iron and burnt stone was recovered from 32 separate deposits relating to 14 trenches (Appendix B). Pottery fabric codes used in this report are those of the Worcestershire Fabric County type series (CFTS) (Bryant and Evans 2004).

- 2.35 A total of 117 sherds of pottery (1158g), dating primarily to the late prehistoric to early Roman periods, were recovered from 26 deposits. Much of the assemblage consists of locally-made fabrics, in particular Malvernian (Palaeozoic) limestone-tempered (CFTS 4.1) and (igneous/metamorphic) rock-tempered wares (CFTS 3) and Severn Valley wares (CFTS 12). Non-local material is restricted to four sherds of Dorset Black-Burnished Ware (CFTS 22) from ditch fills 150004 and 58006, a sherd of Oxfordshire whiteware mortaria (CFTS 33.1) from ditch fill 151010 and two sherds of Oxfordshire red slip ware (CFTS 29) from ditch fill 58013, all probably of later Roman date (Appendix B).
- 2.36 Pottery from ditch fill 152006 includes one small bodysherd in a quartzite-tempered fabric with finger-tip impressions. This probably dates to the Late Bronze Age to Early Iron Age period. Material from deposits 82006 and 82015 dates to the Middle or Late Iron Age. Of note is a small Malvernian rock-tempered (CFTS 3) rim sherd (from ditch fill 82015) which exhibits impressed decoration commonly characteristic of Middle Iron Age vessels in this ware type (Peacock 1968).
- 2.37 Ditch fill 146011 contained 21 sherds of Roman pottery, 19 of which are identifiable as an early variety of Severn Valley ware (CFTS 12.2), characterised by the presence of charcoal inclusions (Webster 1976). Many of the sherds are conjoining and are likely to have formed part of an early type carinated bowl (*ibid.*) suggesting a date of mid 1st to early 2nd century AD. A sherd of a similar fabric and form was also noted in pit fill 148006. Ditch fill 147003 contained ten sherds of Malvernian limestone-tempered ware (CFTS 4.1). These sherds appear to have originated from 2 or 3 separate jars, one of which exhibits an everted rim suggesting Late Iron Age to mid/late 1st century AD dating.
- 2.38 A sherd of medieval Malvernian red ware (CFTS 53.1) was recovered from ditch fill 151010 in association with two sherds of Roman date. Modern whiteware, porcelain and black slipped ware sherds were recovered from furrow fills 153008 and 82012. Furrow fill 153008 also contained a sherd of Severn Valley ware (CFTS 12), likely to be residual.
- 2.39 Quantities of ceramic building material were recovered from six deposits. Most pieces are unidentifiable to form excepting three fragments of tile, likely to be Roman in date, from ditch fills 150004 and 150006 and a fragment of post-medieval brick from furrow 82011.

- 2.40 Small fragments of fired clay, all of which were unidentifiable to form or function, were recovered from nine deposits. Burnt limestone was recovered from two deposits, ditch fills 146011 and 82006. Small quantities of fuel ash slag were recovered from ditch fill 152005. This material cannot be attributed to any specific industrial process as it can form as a result of any high temperature activity. Items of metal are restricted to three iron nails, from Roman and modern dated deposits (appendix B).
- 2.41 Animal bone was recovered from 17 deposits. The species identified were dog, horse, cattle and sheep/goat. A mandible fragment from ditch fill 151010 is provisionally identified as pig. The remainder of the bone is too fragmented for full identification and is classified by cow-sized and sheep-sized. Burnt bone was observed in one deposit. Gnawing by dogs is noted on a small number of bones and a sheep mandible from ditch fill 149004 demonstrates evidence for gum disease. Butchery marks are visible on a small number of bones, most visibly on a cow talus from ditch fill 146011. Most of the bone is moderately well preserved excepting a few examples which show weathering and root etching.
- 2.42 Quantities of disarticulated human bone were recovered from the fill of possible grave-cut 153006.

3. DISCUSSION

- 3.1 The evaluation has revealed archaeological activity across the current evaluation area. Features encountered range in date from the Bronze Age to the modern period and included a Bronze Age ditch, three areas of late prehistoric settlement activity including one comprising a probable double-ditched rectangular enclosure and another comprising two possible roundhouses, two of these settlements appear to show continuation of occupation into the late Roman period. The evaluation also revealed agricultural features dating to the medieval, post-medieval and modern periods.
- 3.2 The results of the evaluation correlate well with the preceding geophysical surveys, which suggested that enclosures, trackways, pits and agricultural ditches, might be present across the site (Phase Site Investigations 2009). In a small number of

trenches, however, the targeting of geophysical anomalies revealed an absence of archaeological features which may be explained by changes noted in the natural substrate.

Bronze Age

- 3.3 The earliest feature identified along the route of the evaluation comprised ditch 152004, within field 77. Malvern limestone tempered pottery recovered from the fills of this feature dated from the Late Bronze Age to Early Iron Age. No other features of Bronze Age date were identified during the evaluation.

Iron Age

- 3.4 Enclosures shown by the geophysical survey in Fields 31 and 33 appear to be genuine archaeological features, and may represent late prehistoric settlement activity, with late prehistoric pottery recovered from corresponding features 53003 (only one sherd) and 56002 (only four sherds).
- 3.5 A series of enclosures and possible trackways within identified by geophysical survey in fields 76 and 77 were investigated through the excavation of trenches 146 to 154. This identified a possible Late Iron Age to 1st century AD trackway (147002) in field 76, and double-ditched enclosure in field 77, with an inner enclosure ditch dated to the late prehistoric period.
- 3.6 An isolated ditch (104003) containing Middle Iron Age to 1st-century AD pottery was identified in field 55.
- 3.7 The geophysical survey also showed two clear sub-rectangular anomalies in field 45 on which trenches 82 and 83 were targeted. Trial trenching confirmed that these were archaeologically significant features, possibly representing a Mid to Late Iron Age settlement site.
- 3.8 A total of 45 fragments of animal bone consisting of cattle, sheep and horse were recovered from late prehistoric contexts, concentrated in fields 45, 76 and 77. Given the size of the animal bone assemblage however, no meaningful interpretation can be given.

Roman

- 3.9 Within field 33 the geophysical survey partially depicted a probable sub-oval enclosure measuring c. 28m by at least 15m. The enclosure ditch (57003) was found to date to the Roman period. The ditches identified in trench 58 may represent the remains of agricultural activity and dated to the mid 3rd to 4th centuries AD and are thought to be contemporaneous with the possible settlement activity.
- 3.10 Within field 77 the geophysical survey showed a clear rectangular anomaly on which trenches 149 and 150 were targeted. Trial trenching confirmed the presence of the enclosure and confirmed that considerable Roman activity had occurred in this area with the presence of archaeologically significant features, possibly representing a Roman settlement site dating to the 2nd to 4th century AD. Within field 76 smaller enclosures were revealed, on which trenches 146 and 148 were targeted. These again confirmed the presence of enclosures with intensive Roman activity in the form of numerous pits and ditches indicative of settlement activity.
- 3.11 A total of 80 fragments of animal bone were recovered from the Roman elements of the evaluation site, the species identified were cattle, sheep and dog. Given the size of the animal bone assemblage no meaningful interpretation can be ascertained, but the overall make-up, nature and character would appear to be typical of occupation of small-scale domestic rural settlement (Young and Hancock 2006).
- 3.12 The identified Roman sites are situated on gravel geology which has been considered to be typical of settlement location for the period. The Severn Vale study of the Roman landscape around Frocester has stressed the importance of gravel subsoil as a determining factor in settlement and agriculture in the Severn Vale area (Price 2000, 241-2). To some extent this apparent geological determinism may be a function of the location of development and the effectiveness of aerial survey techniques. The proximity of the River Avon and its associated fertile soils may also be a significant factor in the location of the sites (Brown 1997, 104, 282-3).

Medieval, post-medieval and modern

- 3.13 The evidence for medieval activity largely comprised the remains of furrows, the remnants of medieval ridge and furrow ploughing in an open field system.

3.14 Evidence of this was seen in trenches 30, 57, 58, 82, 83, 120-122, 124, 131-133, 139, 149, 150, 153-155 and 163 located in fields 18, 33, 45, 63, 66, 69, 70, 73, 77, 78 and 80. Although only limited evidence of ridge and furrow was seen within the evaluation areas, extensive ridge and furrow was seen to extend across the proposed development area from the geophysical surveys.

3.15 A single late medieval ditch was seen to have cut an underlying prehistoric enclosure ditch within field 77.

Undated

3.16 A number of trenches contained features that did not contain any dating evidence. These comprised a ditch in field 28, which corresponded to a curvilinear feature depicted by the geophysical survey. A pit and a ditch in field 55, a ditch in field 63, a ditch in field 70, a ditch in field 73, a ditch and posthole in field 80 and two ditches in field 177.

3.17 The remaining undated features in fields 33, 45, 76 and 77 may be attributed to the Roman period or earlier through spatial and alignment association with similar datable features. Within field 33 the geophysical survey depicted curvilinear ditch 58003, which appeared to represent the possible remains of a roundhouse, which would have had an estimated internal diameter of 12m. This feature remained undated artefactually, but was cut by a Roman ditch 58005, this and spatial association with datable features suggesting a possible late Iron Age date which may be contemporaneous with the possible partial roundhouse revealed within field 33 in trench 56. Curvilinear ditch 56013 appeared to represent the remains of a roundhouse with an estimated projected diameter of 14m.

3.18 Ditches 146002, 147005, 148007, 149005, 151003 and 151005 remained unexcavated. These features formed parts of a series of enclosures within fields 76 and 77. The majority of the enclosures and trackways within these fields contained material evidence dating from the Middle Iron Age to the 4th century AD. Numerous unexcavated pits and ditches indicative of settlement activity also occurred in this area, and may be attributed to the Roman period or earlier through spatial and alignment association with similar datable features

3.19 An undated grave cut 153007 was partially excavated in field 77, which was backfilled on the identification of human skeletal material

Conclusion

- 3.20 The artefactual evidence suggests that permanent settlement within fields 31 and 33, 76 and 77 and 45 originated in the Mid to Late Iron Age and continued in fields 33 and 76 and 77 into the 4th century AD. Although no definitive structural evidence was identified, a quantity of Roman brick and/or tile was recovered from the excavated features. A number of the excavated features appeared to represent settlement activity and this is supported by the character of the features identified during the geophysical survey. Settlement activity is further attested by the faunal assemblage, which is indicative of small-scale domestic rural settlement.

4. CA PROJECT TEAM

Fieldwork was undertaken by Stuart Joyce, David Cudlip and Jon Hart, assisted by Jon Bennett, Siân Reynish, Andrew Loader, Michael Hartwell, Hazel O'Neal and Heather Griggs. Specialist reports were compiled by Victoria Taylor (Finds) and Sylvia Warman (Human Bone). The report was written by Stuart Joyce, assisted by Andrew Loader. The illustrations were prepared by Rachael Kershaw. The archive has been compiled by Stuart Joyce, and prepared for deposition by Victoria Taylor. The project was managed for CA by Simon Cox.

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APPENDIX A: CONTEXT DESCRIPTIONS

Trench 1 NE-21.27m AOD, SW-21.11m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
1000	Layer	Topsoil			0.1	
1001	Layer	Subsoil			0.3	
1002	Layer	Natural substrate			>0.3	

Trench 2 NE-21.36m AOD, SW-21.37m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
2000	Layer	Topsoil			0.1	
2001	Layer	Subsoil			0.2	
2002	Layer	Natural substrate				

Trench 3 E-20.67m AOD, W-21.37m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
3000	Layer	Topsoil			0.1	
3001	Layer	Subsoil			0.2	
3002	Layer	Natural substrate				

Trench 4 NE-18.68m AOD, SW-18.91m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
4000	Layer	Topsoil			0.1	
4001	Layer	Subsoil			0.3	
4002	Layer	Natural substrate				

Trench 5 NW-18.26m AOD, SE-17.97m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
5000	Layer	Topsoil			0.1	
5001	Layer	Subsoil			0.3	
5002	Layer	Natural substrate				

Trench 7 NW-17.49m AOD, SE-17.52m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
7000	Layer	Topsoil			0.15	
7001	Layer	Subsoil			0.25	
7002	Layer	Natural substrate				

Trench 8 NE-17.64m AOD, SW-17.48m AOD

No.	Type	Description	Length	Width	Depth	Spot-
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			(m)	(m)	(m)	date
8000	Layer	Topsoil			0.15	
8001	Layer	Subsoil			0.25	
8002	Layer	Natural substrate				

Trench 9 NW-17.51m AOD, SE-17.55m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
9000	Layer	Topsoil			0.1	
9001	Layer	Subsoil			0.1	
9002	Layer	Natural substrate				

Trench 10 NE-17.60m AOD, SW-17.54m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
10000	Layer	Topsoil			0.1	
10001	Layer	Subsoil			0.1	
10002	Layer	Natural substrate				

Trench 16 NW-20.09m AOD, SE-19.95m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
16000	Layer	Topsoil			0.2	
16001	Layer	Subsoil			0.2	
16002	Layer	Natural substrate				

Trench 17 NE-20.83m AOD, SW-20.66m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
17000	Layer	Topsoil			0.2	
17001	Layer	Subsoil			0.1	
17002	Layer	Natural substrate				

Trench 18 NW-21.34m AOD, SE-21.31m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
18000	Layer	Topsoil			0.2	
18001	Layer	Subsoil			0.1	
18002	Layer	Natural substrate				

Trench 19 NE-21.16m AOD, SW-21.41m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
19000	Layer	Topsoil			0.1	
19001	Layer	Subsoil			0.3	
19002	Layer	Natural substrate				

Trench 21 NE-m AOD, SW-m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
21000	Layer	Topsoil			0.2	
21001	Layer	Subsoil			0.2	
21002	Layer	Natural substrate				

Trench 22 NE-17.61m AOD, SW-17.54m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
22000	Layer	Topsoil			0.2	
22001	Layer	Subsoil			0.2	
22002	Layer	Natural substrate				

Trench 23 NE-18.90m AOD, SW-18.28m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
23000	Layer	Topsoil			0.15	
23001	Layer	Subsoil			0.15	
23002	Layer	Natural substrate				

Trench 24 NW-21.18m AOD, SE-21.41m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
24000	Layer	Topsoil			0.2	
24001	Layer	Subsoil			0.1	
24002	Layer	Natural substrate				

Trench 28 NE-22.50m AOD, SW-22.17m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
28000	Layer	Topsoil			0.1	
28001	Layer	Subsoil			0.3	
28002	Layer	Natural alluvium			0.2	
28003	Layer	Natural substrate				

Trench 29 NE-23.25m AOD, SW-22.88m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
29000	Layer	Topsoil			0.2	
29001	Layer	Subsoil			0.2	
29002	Layer	Natural Substrate				

Trench 30 NW-25.61m AOD, SE-25.68m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
30001	Layer	Topsoil			0.2	

30002	Layer	Subsoil			0.2	
30003	Layer	Natural Substrate				
30004	Cut	Furrow				
30005	Fill	Fill of 30004				
30006	Cut	Furrow				
30007	Fill	Fill of 30006				
30008	Cut	Furrow				
30009	Fill	Fill of 30008				

Trench 31 NE-22.47m AOD, SW-23.19m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
31000	Layer	Topsoil			0.2	
31001	Layer	Subsoil			0.2	
31002	Layer	Natural Substrate				

Trench 32 N-17.72m AOD, S-17.81m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
32000	Layer	Topsoil			0.2	
32001	Layer	Subsoil			0.2	
32002	Layer	Natural Substrate				

Trench 33 NE-19.08m AOD, SW-18.90m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
33000	Layer	Topsoil			0.3	
33001	Layer	Subsoil			0.1	
33002	Layer	Natural Substrate				

Trench 34 NE-20.67m AOD, SW-20.58m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
34000	Layer	Topsoil			0.3	
34001	Layer	Subsoil			0.1	
34002	Layer	Natural Substrate				

Trench 43 NE-m AOD, SW-m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
43000	Layer	Topsoil			0.3	
43001	Layer	Natural Substrate				

Trench 44 NE-m AOD, SW-m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
44000	Layer	Topsoil			0.3	

44001	Layer	Natural Substrate				
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Trench 45 NE-19.69m AOD, SW-19.59m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
45000	Layer	Topsoil			0.27	
45001	Layer	Subsoil			0.27	
45001	Layer	Natural Substrate				
45003	Cut	N-S Ditch		1.2	0.26	
45004	Fill	Fill of 45003. Mid brown/yellow grey clay-silt		1.2	0.26	

Trench 46 NE-19.98m AOD, SW-19.78m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
46000	Layer	Topsoil			0.22	
46001	Layer	Subsoil			0.40	
46002	Layer	Natural Substrate				

Trench 48 N-23.30m AOD, S-23.56m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
48000	Layer	Topsoil			0.26	
48001	Layer	Subsoil			0.20	
48002	Layer	Natural Substrate				

Trench 49 E-24.82m AOD, W-24.56m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
49000	Layer	Topsoil			0.26	
49001	Layer	Subsoil			0.24	
49002	Layer	Natural Substrate				

Trench 52 NE-24.35m AOD, SW-24.43m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
52000	Layer	Topsoil			0.35	
52001	Layer	Subsoil			0.40	
52002	Layer	Natural Substrate				

Trench 53 NW-24.27m AOD, SE-24.14m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
53000	Layer	Topsoil			0.28	
53001	Layer	Subsoil			0.31	
53002	Layer	Natural Substrate			>0.14	
53003	Cut	N-S Ditch		1.15	0.2	
53004	Fill	Fill of 53003. Mid/light grey brown silt-clay		1.15	0.2	LPRE

Trench 54 NE-23.50m AOD, SW-23.90m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
54000	Layer	Topsoil			0.3	
54001	Layer	Subsoil			0.22	
54002	Layer	Natural Substrate			>0.07	

Trench 56 NW-23.91m AOD, SE-24.13m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
56000	Layer	Topsoil			0.32	
56001	Layer	Natural Substrate			>0.18	
56002	Cut	NE-SW Linear		1.62	0.48	
56003	Fill	1 st fill of 56002. Mid brown grey silt-clay		1.05	0.23	
56004	Fill	2 nd fill of 56002. Orange grey-brown		1.62	0.38	LPRE
56005	Cut	NW-SE Gully		0.34	0.29	
56006	Fill	Fill of 56005. Mid grey brown silt-clay		0.34	0.29	

Trench 57 NW-23.92m AOD, SE-24.00m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
57000	Layer	Topsoil			0.29	
57001	Layer	Subsoil			0.23	
57002	Layer	Natural Substrate			>0.15	
57003	Cut	NE-SW Linear		2.45	0.52	
57004	Fill	Upper fill of 57003. Mid grey brown sandy-clay		2.45	0.52	RB
57005	Cut	N-S Furrow		1.6		
57006	Fill	Fill of 57005		1.6		
57007	Cut	N-S Furrow		1.6		
57008	Fill	Fill of 57007		1.6		
57009	Fill	Fill of 57003. Mid orange brown silt-clay		0.38	0.24	RB
57010	Fill	Fill of 57003. Grey brown silt-clay		0.93	0.35	

Trench 58 NE-23.78m AOD, SW-23.91m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
58000	Layer	Topsoil			0.26	
58001	Layer	Subsoil			0.13	
58002	Layer	Natural Substrate				
58003	Cut	Ring ditch		1.92	0.51	
58004	Fill	Fill of 58003. Mid yellow brown silt-clay		1.92	0.51	
58005	Cut	N-S Ditch		1.31	0.34	
58006	Fill	Fill of 58005. Dark/mid green grey organic silt-clay		1.31	0.34	MC3-C4
58007	Layer	Compacted layer, possible floor surface. Mid grey yellow-brown silt-clay		>0.7	0.16	
58008	Cut	Possible Pit		0.46	0.36	
58009	Fill	Fill of 58008. Mid yellow brown silt-clay		0.46	0.36	
58010	Cut	Possible Pit		0.72	0.24	
58011	Fill	Fill of 58010. Mid orange green-brown		0.72	0.24	

58012	Cut	Ring ditch		2.34	0.24	
58013	Fill	Fill of 58012. Dark green grey organic silt-clay		2.34	0.24	MC3-C4
58014	Cut	Probable Furrow		1.42	0.25	
58015	Fill	Fill of 58014. Light yellow brown silt-clay		1.42	0.25	RB

Trench 59 NE-24.20m AOD, SW-24.07m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
59000	Layer	Topsoil			0.29	
59001	Layer	Subsoil			0.27	
59002	Layer	Natural Substrate			>0.35	

Trench 60 NW-24.58m AOD, SE-24.94m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
60000	Layer	Topsoil			0.3	
60001	Layer	Subsoil			0.25	
60002	Layer	Natural Substrate			>0.1	

Trench 82 E-24.06m AOD, W-23.91m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
82000	Layer	Topsoil			0.23	
82001	Layer	Subsoil			0.12	
82002	Layer	Natural Substrate			>0.35	
82003	Cut	Possible Pit		0.4	0.23	
82004	Fill	Fill of 82003. Grey silt-clay		0.4	0.23	
82005	Cut	NE-SW Ditch		0.58	0.54	MLIA
82006	Fill	Secondary fill of 82005. Dark grey brown silt-clay		0.52	0.11	
82007	Fill	Primary fill of 82005. Light brown silt-clay		0.49	0.44	
82011	Cut	N-S Furrow		2.66	0.22	PMED
82012	Fill	Fill of 82011. Mid brown silt-clay		2.66	0.22	C19
82013	Cut	N-S Ditch		1.56	0.88	
82014	Fill	Secondary fill of 82013. Mid/dark brown grey silt-clay		1.56	0.46	
82015	Fill	Primary fill of 82013. Dark brown grey silt-clay		0.72	0.44	MLIA
82016	Fill	Fill of 82017				
82017	Cut	N-S Furrow				

Trench 83 NE-23.91m AOD, SW-23.93m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
83000	Layer	Topsoil			0.21	
83001	Layer	Subsoil			0.15	
83002	Layer	Natural Substrate			>0.10	
83003	Fill	Fill of 83004. Mid brown silt-clay				
83004	Cut	Furrow. Same as 82011				
83005	Fill	Fill of 83006. Grey silt-clay		1.76	0.40	LPRE
83006	Cut	Enclosure ditch		1.76	0.40	

Trench 92 NW-21.32m AOD, SE-21.93m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
92000	Layer	Topsoil			0.2	
92001	Layer	Subsoil			0.2	
92002	Layer	Natural Substrate				

Trench 93 NE-21.00m AOD, SW-21.14m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
93000	Layer	Topsoil			0.2	
93001	Layer	Subsoil			0.22	
93002	Layer	Natural Substrate				

Trench 94 NE-20.67m AOD, SW-20.97m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
94000	Layer	Topsoil			0.2	
94001	Layer	Subsoil			0.2	
94002	Layer	Natural Substrate				

Trench 95 NW-20.73m AOD, SE-20.73m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
95000	Layer	Topsoil			0.22	
95001	Layer	Subsoil			0.20	
95002	Layer	Natural Substrate				

Trench 96 NE-21.16m AOD, SW-20.94m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
96000	Layer	Topsoil			0.22	
96001	Layer	Subsoil			0.22	
96002	Layer	Natural Substrate				

Trench 97 NW-22.54m AOD, SW-21.97m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
97000	Layer	Topsoil			0.22	
97001	Layer	Subsoil			0.20	
97002	Layer	Natural Substrate				

Trench 98 NE-23.73m AOD, SW-23.52m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
98000	Layer	Topsoil			0.2	
98001	Layer	Subsoil			0.18	

98002	Layer	Natural Substrate				
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Trench 99 NW-25.55m AOD, SE-25.36m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
99000	Layer	Topsoil			0.2	
99001	Layer	Subsoil			0.2	
99002	Layer	Natural Substrate				

Trench 104 E-23.52m AOD, W-23.48m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
104000	Layer	Topsoil			0.25	
104001	Layer	Subsoil			0.37	
104002	Layer	Natural Substrate			>0.04	
104003	Cut	Small ditch	1.93	0.57	0.21	
104004	Fill	Fill of 104003. Mid brownish grey	1.93	0.57	0.21	MLIA
104005	Cut	Small pit/ Ditch terminus	0.41	0.22	0.11	
104006	Fill	Fill of 104005. Mid greyish brown	0.41	0.22	0.11	
104007	Cut	Large ditch to NE of trench				
104008	Fill	Fill of 104007				

Trench 120 NE-35.32m AOD, SW-35.21m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
120000	Layer	Topsoil			0.28	
120001	Layer	Subsoil			0.19	
120002	Layer	Natural Substrate			>0.11	
120003	Cut	E-W small gully		0.4	0.13	
120004	Fill	Fill of 120003. Mid greyish brown		0.4	0.13	
120005	Cut	N-S Furrow				
120006	Fill	Fill of 120005				
120007	Cut	N-S Furrow				
120008	Fill	Fill of 120007				

Trench 121 NW-35.87m AOD, SE-35.71m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
121000	Layer	Topsoil			0.2	
121001	Layer	Subsoil			0.2	
121002	Layer	Natural Substrate				
121003	Fill	Fill of 21004		3.2		
121004	Cut	Furrow		3.2		

Trench 122 NE-37.02m AOD, SW-36.82m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
122001	Layer	Topsoil			0.2	

122002	Layer	Subsoil			0.2	
122003	Layer	Natural Substrate				
122004	Cut	Furrow				
122005	Fill	Fill of 122004				
122006	Cut	Furrow				
122007	Fill	Fill of 122006				
122008	Cut	Furrow				
122009	Fill	Fill of 122008				

Trench 123 NE-37.68m AOD, SW-37.39m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
123000	Layer	Topsoil			0.30	
123001	Layer	Subsoil			0.65	
123002	Layer	Natural Substrate				

Trench 124 NW-38.71m AOD, SE-38.84m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
124001	Layer	Topsoil			0.20	
124002	Layer	Subsoil			0.2	
124003	Layer	Natural Substrate				
124004	Cut	Furrow				
124005	Fill	Fill of 124004				
124006	Cut	Furrow				
124007	Fill	Fill of 124006				
124008	Cut	Furrow				
124009	Fill	Fill of 124008				

Trench 130 NW-40.17m AOD, SE-40.18m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
130000	Layer	Topsoil			0.41	
130001	Layer	Subsoil			0.28	
130002	Layer	Natural Substrate				

Trench 131 NE-40.39m AOD, SW-39.81m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
131000	Layer	Topsoil			0.31	
131001	Layer	Subsoil			0.34	
131002	Layer	Natural Substrate			>0.12	
131003	Fill	Fill of 131004			0.04	
131004	Cut	Furrow			0.04	

Trench 132 NW-39.01m AOD, SE-39.31m AOD

No.	Type	Description	Length	Width	Depth	Spot-
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			(m)	(m)	(m)	date
132000	Layer	Topsoil			0.26	
132001	Layer	Subsoil			0.22	
132002	Layer	Natural Substrate			>0.20	
132003	Fill	Fill of 132004				
132004	Cut	E-W Furrow				

Trench 133 NE-38.11m AOD, SW-37.51m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
133000	Layer	Topsoil			0.25	
133001	Layer	Subsoil			0.15	
133002	Layer	Natural Substrate			>0.12	
133003	Fill	Fill of 133004. Light brown.		0.46	0.10	
133004	Cut	SE-NW ditch		0.46	0.10	
133005	Fill	Fill of 133006				
133006	Cut	SE-NW furrow				

Trench 134 NW-36.90m AOD, SE-37.21m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
134000	Layer	Topsoil			0.15	
134001	Layer	Subsoil			0.25	
134002	Layer	Natural Substrate				

Trench 135 NE-36.37m AOD, SW-36.20m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
135000	Layer	Topsoil			0.2	
135001	Layer	Subsoil			0.3	
135002	Layer	Natural Substrate				

Trench 136 NW-36.67m AOD, SE-36.75m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
136000	Layer	Topsoil			0.15	
136001	Layer	Subsoil			0.25	
136002	Layer	Natural Substrate				

Trench 137 N-34.70m AOD, S-35.46m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
137000	Layer	Topsoil			0.27	
137001	Layer	Natural Substrate				

Trench 139 E-36.29m AOD, W-36.48m AOD

No.	Type	Description	Length	Width	Depth	Spot-

			(m)	(m)	(m)	date
139000	Layer	Topsoil			0.26	
139001	Layer	Natural Substrate				
139002	Cut	Furrow				
139003	Fill	Fill of 139002. Orange brown sandy silt.				

Trench 140 N-39.22m AOD, S-39.49m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
140000	Layer	Topsoil			0.39	
140001	Layer	Subsoil			0.11	
140002	Layer	Natural Substrate				
140003	Cut	NW-SE Ditch		1.1	0.17	
140004	Fill	Fill of 140003. Mid orange brown.		1.1	0.17	

Trench 146 NW-34.90m AOD, SE-33.91m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
146000	Layer	Topsoil			0.35	
146001	Layer	Natural Substrate			>0.04	
146002	Cut	Cut of Ditch				
146003	Fill	Fill of 146002				
146004	Cut	Cut of small pit/post hole				
146005	Fill	Fill of 146004				
146006	Cut	Cut of ditch				
146007	Fill	Fill of 146006				
146008	Cut	Cut of pit/ditch terminus				
146009	Fill	Fill of 146008				
146010	Cut	Cut of ditch	>6.5		>0.26	
146011	Fill	Fill of 146010. Mid yellowy greenish brown.	>6.5		>0.26	MC1-C2

Trench 147 NW-35.65m AOD, SE-34.91m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
147000	Layer	Topsoil			0.30	
147001	Layer	Natural Substrate				
147002	Cut	Large E-W ditch	3.6	3.6	0.57	
147003	Fill	Fill of 147003	3.6	3.6	0.57	LIA-C1
147004	Drain	Stone lined field drain				
147005	Cut	Cut for rubble dump				
147006	Fill	Fill of 147005				

Trench 148 NE-35.88m AOD, SW-35.37m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
148000	Layer	Topsoil			0.32	
148001	Layer	Subsoil			0.17	
148002	Layer	Natural Substrate			>0.04	
148003	Cut	Cut of ditch		1.17	0.15	

148004	Fill	Fill of 148003		1.17	0.15	IA-ERB
148005	Cut	Cut of pit/ditch terminus				
148006	Fill	Fill of 148005				MC1-C2
148007	Cut	Cut of ditch				
148008	Fill	Fill of 148007				

Trench 149 NW-35.85m AOD, SE-36.17m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
149000	Layer	Topsoil			0.03	
149001	Layer	Subsoil			0.22	
149002	Layer	Natural Substrate				
149003	Cut	Wide shallow ditch/furrow			0.31	
149004	Fill	Fill of 149003. Mid brownish grey			0.31	RB
149005	Cut	Wide linear feature				
149006	Fill	Fill of 149005				
149007	Cut	Truncated shallow irregular linear				
149008	Fill	Fill of 149007				
149009	Cut	Same as 149007				
149010	Fill	Fill of 149009				
149011	Cut	Irregular linear feature				
149012	Fill	Fill of 149011				
149013	Cut	E-W linear feature				
149014	Fill	Fill of 149013				

Trench 150 NW-35.34m AOD, SE-35.64m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
150000	Layer	Topsoil			0.28	
150001	Layer	Subsoil				
150002	Layer	Natural Substrate				
150003	Cut	Large ditch	2.5	4	0.58	
150004	Fill	Fill of 150003. Mid brownish grey.	2.5	4	0.58	C2-C4
150005	Cut	Small ditch	2	1.2	0.26	
150006	Fill	Fill of 150005. Mid brownish grey.	2	1.2	0.26	RB
150007	Cut	Plough scar/furrow		0.45	0.10	
150008	Fill	Fill of 150007		0.45	0.10	
150009	Cut	Plough scar				
150010	Fill	Fill of 150009				
150011	Cut	Plough scar				
150012	Fill	Fill of 150011				
150013	Cut	Furrow		1.4	0.15	
150014	Fill	Fill of 150013		1.4	0.15	

Trench 151 NW-35.41m AOD, SE-35.66m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
151000	Layer	Topsoil			0.25	

151001	Layer	Subsoil			0.13	
151002	Layer	Natural Substrate				
151003	Cut	Cut of ditch				
151004	Fill	Fill of 151003				
151005	Cut	Cut of possible ditch				
151006	Fill	Fill of 151005				
151007	Cut	Cut of ditch		0.92	0.36	
151008	Cut	Cut of ditch		2	0.37	
151009	Fill	Primary fill of 151007		0.92	0.36	RB
151010	Fill	Secondary fill of 151008		2	0.24	LMED
151011	Fill	Primary fill of 151008		0.54	0.14	

Trench 152 NE-35.29m AOD, SW-35.24m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
152000	Layer	Topsoil			0.63	
152001	Layer	Natural Substrate				
152002	Cut	Cut for modern service		0.48	0.28	
152003	Fill	Fill of 152002		0.48	0.28	LIA-C1
152004	Cut	Cut of ditch			0.74	
152005	Fill	Fill of 152004. Greenish brown gravel.		1.26	0.30	LPRE
152006	Fill	Fill of 152004. Yellowish brown clay.		1.84	0.39	LBA/EIA
152007	Fill	Fill of 152004. Upper black fill.		1.76	0.24	RB
152008	Fill	Fill of 152004. Redeposited natural. Primary fill.		0.80	0.21	

Trench 153 NW-33.84m AOD, SE-34.51m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
153000	Layer	Topsoil			0.32	
153001	Layer	Subsoil			0.14	
153002	Layer	Natural Substrate				
153003	Fill	Fill of 153005. Secondary. Dark Brown		1.66	0.15	
153004	Fill	Fill of 153005. Primary. Mid greyish orangey brown		1.32	0.17	
153005	Cut	SW-NE ditch		1.55	0.32	
153006	Fill	Fill of 153007		0.70	0.39	
153007	Cut	Possible grave cut/pit		0.70	0.39	
153008	Fill	Fill of 153009. Light grey brown				MOD
153009	Cut	Furrow				
153010	Fill	Fill of 153011. Same as 153003				
153011	Cut	N-S ditch. Same as 153005.				
153012	Fill	Fill of 153013. Light grey brown.				
153013	Cut	Furrow.				

Trench 154 NE-32.13m AOD, SW-32.43m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
154000	Layer	Topsoil			0.26	
154001	Layer	Subsoil			0.11	

154002	Layer	Natural Substrate				
154003	Fill	Fill of 154004. Light grey brown.				
154004	Cut	Furrow.				
154005	Fill	Fill of 154006. Light grey brown.				
154006	Cut	Furrow.				
154007	Fill	Fill of 154008. Light grey brown.				
154008	Cut	Furrow.				

Trench 155 NW-29.12m AOD, SE-29.76m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
155000	Layer	Topsoil			0.31	
155001	Layer	Natural Substrate				
155002	Cut	Furrow			0.13	
155003	Fill	Fill of 155002. Mid yellow brown.			0.13	
155004	Cut	Furrow.			0.10	
155005	Fill	Fill of 155004. Mid yellow brown.			0.10	

Trench 156 NE-m AOD, SW-m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
156000	Layer	Topsoil			0.28	
156001	Layer	Natural Substrate				

Trench 157 E-20.27m AOD, W-18.49m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
157000	Layer	Topsoil			0.30	
157001	Layer	Natural Substrate				

Trench 158 N-13.62m AOD, S-13.28m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
158000	Layer	Topsoil			0.31	
158001	Layer	Subsoil			0.20	
158002	Layer	Natural Substrate				

Trench 159 E-12.74m AOD, W-12.66m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
159000	Layer	Topsoil			0.26	
159001	Layer	Subsoil			0.12	
159002	Layer	Natural Substrate				

Trench 160 NW-11.94m AOD, SE-12.11m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date

160000	Layer	Topsoil			0.37	
160001	Layer	Subsoil			0.24	
160002	Layer	Natural Substrate				

Trench 161 NW-12.23m AOD, SE-12.08m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
161000	Layer	Topsoil			0.33	
161001	Layer	Subsoil			0.23	
161002	Layer	Natural Substrate				

Trench 162 NE-12.55m AOD, SW-12.35m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
162000	Layer	Topsoil				
162001	Layer	Subsoil				
162002	Layer	Natural Substrate				
162003	Fill	Secondary fill of 162005. Mid grey brown.		1.94	0.26	
162004	Fill	Primary fill of 162005. Light yellow brown.		0.96	0.23	
162005	Cut	Possible ditch		>2.11	>0.49	

Trench 163 NW-12.37m AOD, SE-12.56m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
163000	Layer	Topsoil			0.29	
163001	Layer	Subsoil			0.29	
163002	Layer	Natural Substrate				
163003	Cut	Post hole		0.24	0.20	
163004	Fill	Fill of 163003		0.24	0.20	
163005	Cut	Furrow				
163006	Fill	Fill of 163004				

Trench 164 NE-12.90m AOD, SW-13.24m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
164000	Layer	Topsoil			0.33	
164001	Layer	Natural Substrate				

Trench 165 E-11.69m AOD, W-11.57m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
165000	Layer	Topsoil			0.20	
165001	Layer	Natural Substrate				

Trench 166 N-11.34m AOD, S-11.31m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
166000	Layer	Topsoil			0.21	
166001	Layer	Natural Substrate				

Trench 167 E-11.35m AOD, W-11.31m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
167000	Layer	Topsoil			0.25	
167001	Layer	Natural Substrate				

Trench 168 N-11.96m AOD, S-11.97m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
168000	Layer	Topsoil			0.18	
168001	Deposit	Layer of dumped bank material for flood defence.			0.56	
168002	Layer	Former topsoil layer. Mid – light grey brown.			0.16	
168003	Layer	Natural Substrate				

Trench 169 E-11.24m AOD, W-11.32m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
169000	Layer	Topsoil			0.20	
169001	Layer	Subsoil			0.10	
169002	Layer	Natural Substrate				

Trench 170 N-11.81m AOD, S-11.76m AOD

No.	Type	Description	Length (m)	Width (m)	Depth (m)	Spot-date
170000	Layer	Topsoil			0.20	
170001	Layer	Subsoil			0.10	
170002	Layer	Natural Substrate				

APPENDIX B: THE FINDS

Table 1. Finds concordance

Trench	Context	Artefact type	Count	Weight	Date
53	53004	Prehistoric pottery: Malvernian limestone-tempered (CFTS 4.1)	1	1	LPRE
56	56004	Prehistoric pottery: Malvernian rock-tempered (CFTS 3) Fired clay	4 1	18 1	LPRE
57	57004	Animal Bone: cow-sized Roman pottery: Severn Valley ware (CFTS 12)	4 6	191 32	RB
57	57009	Roman pottery: Severn Valley ware (CFTS 12)	1	8	RB
58	58006	Animal Bone: sheep, cow-sized CBM Roman pottery: Severn Valley ware (CFTS 12), Black Burnished ware (CFTS 22), Malvernian rock-tempered (CFTS 3) Fe: nail shaft	28 1 17 1	194 11 134 1	MC3-C4
58	58013	Animal Bone: cow-sized Roman pottery: Severn Valley ware (CFTS 12), Oxfordshire red slip ware (CFTS 29)	4 4	14 54	MC3-
58	58015	Roman pottery: Severn Valley ware (CFTS 12)	1	26	RB
82	82004	Burnt bone: sheep-sized	1	1	
82	82006	Fired clay Prehistoric pottery: Malvernian coarse shell-tempered (CFTS 4.3), Malvernian quartz-tempered (CFTS 5.1), Malvernian rock-tempered (CFTS 3) Burnt stone	4 8 2	13 58 56	MLIA
82	82007	Animal Bone: horse, cow-sized Fired clay	3 1	31 1	
82	82011	CBM: brick	1	316	PMED
82	82012	Modern pottery: whiteware Fe: nail shaft CBM	2 1 4	3 1 29	C19
82	82014	Animal Bone: cow, sheep, cow-sized, sheep-sized	32	464	
82	82015	Animal Bone: sheep, sheep-sized Prehistoric pottery: Malvernian rock-tempered (CFTS 3)	2 1	4 2	MLIA
83	83005	Animal Bone: cow, sheep Fired clay Prehistoric pottery: Malvernian limestone tempered (CFTS 4.1)	3 7 2	18 20 6	LPRE
104	104004	Animal Bone: sheep, sheep-sized Fired clay Prehistoric pottery: Malvernian limestone tempered (CFTS 4.1)	5 3 1	17 5 4	MLIA-
104	104006	Fired clay	2	7	
146	146011	Animal Bone: cow, cow-sized Roman pottery: Severn Valley ware (CFTS 12.2), grey ware (CFTS 15), Malvernian rock-tempered (CFTS 3) Burnt stone Fired clay	3 21 3 1	68 346 308 5	MC1-
147	147003	Animal Bone: cow, cow-sized, sheep-sized Prehistoric pottery: Malvernian limestone tempered (CFTS 4.1)	19 9	451 142	LIA-C1
148	148004	Animal Bone: sheep Prehistoric pottery: Malvernian rock-tempered (CFTS 3)	1 1	18 10	IA-ERB
148	148006	Prehistoric pot: Malvernian limestone-tempered (CFTS 4.1) Roman pot: Severn Valley ware (CFTS 12)	3 1	79 25	MC1-

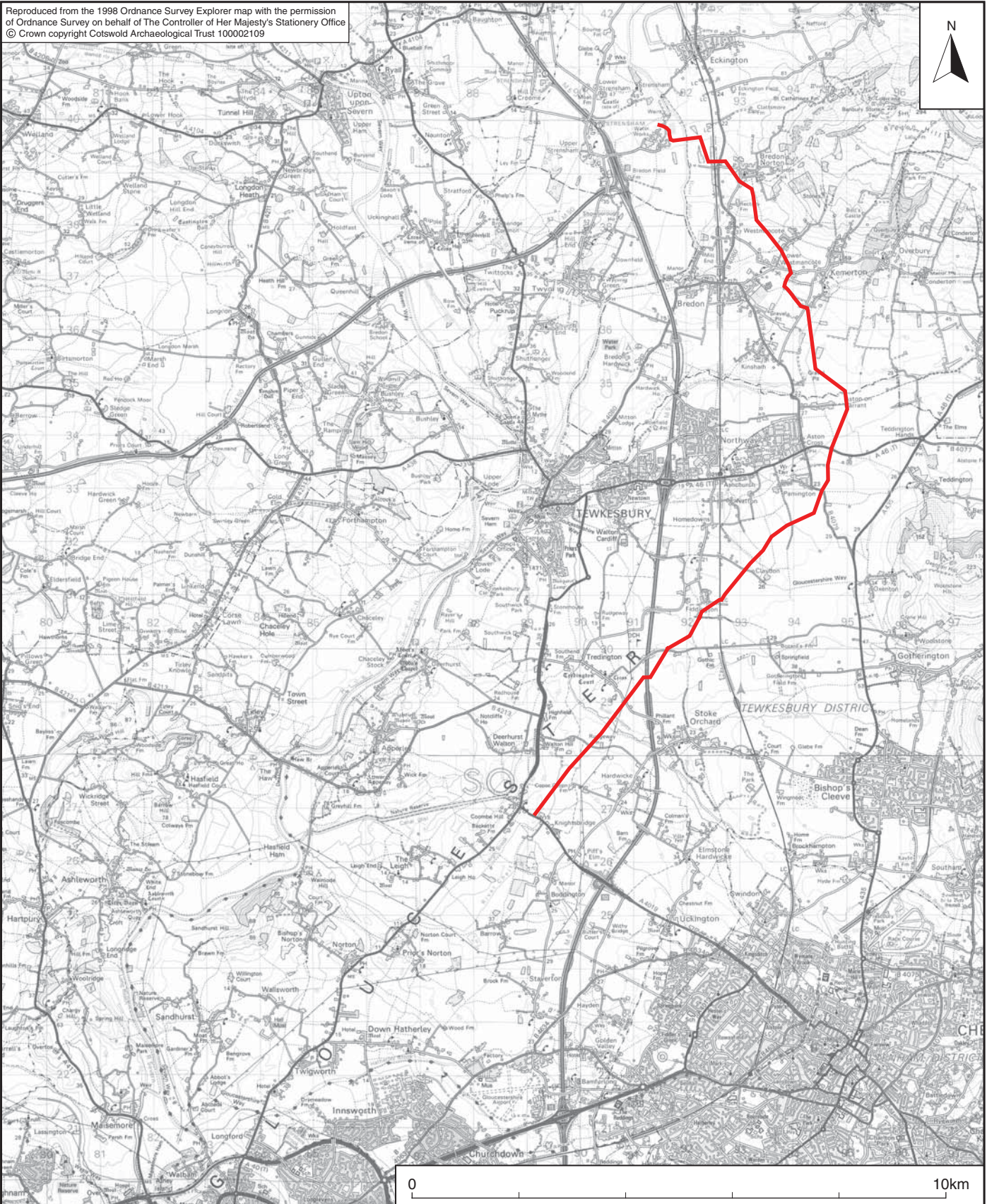
		Fired clay	1	1	
148	149004	Animal Bone: dog, cow, sheep, cow-sized Roman pottery: Severn Valley ware (CFTS 12)	15 1	440 13	RB
150	150004	Animal Bone: dog, cow, sheep, cow-sized Roman pottery: Dorset Black Burnished (CFTS 22), Shell-tempered (CFTS 4.3), Severn Valley ware (CFTS 12) Prehistoric pottery: Shell-tempered (CFTS 4.3) CBM: Roman tile Fe: nail	22 7 3 1 1	75 110 19 4 6	C2-C4
150	150006	Animal Bone: sheep, sheep-sized Prehistoric pottery: Malvernian limestone-tempered (CFTS 4.1) CBM: Roman tile	3 1 1	5 4 1	RB
150	150014	CBM	1	3	
151	151009	Animal Bone: cow-sized, sheep-sized Prehistoric pottery: Malvernian limestone-tempered (CFTS 4.1), Malvernian rock-tempered (CFTS 3) Roman pottery: Severn Valley ware (CFTS 12)	4 3 3	7 3 6	RB
151	151010	Animal Bone: possible pig Medieval pottery: Malvernian red ware (CFTS 53.1) Roman pottery: Severn Valley ware (CFTS 12), Oxfordshire whiteware mortaria (CFTS 33.1) CBM	1 1 2 1	18 4 26 2	LMED/
152	152003	Prehistoric pottery: Malvernian limestone-tempered (CFTS 4.1)	2	2	LIA-C1
152	152005	Animal Bone: sheep Fuel ash slag Prehistoric pottery: Malvernian limestone-tempered (CFTS 4.1) Fired clay	1 4 1 1	9 6 1 1	LPRE
152	152006	Animal Bone: sheep-sized Prehistoric pottery: Quartz-tempered (CFTS 5.1)	4 6	16 7	LBA/EIA
152	152007	Roman pottery: Severn Valley ware (CFTS 12)	2	8	RB
153	153006	Human Bone	128	1076	
153	153008	Modern pottery: Porcelain, black-slipped Roman pottery: Severn Valley ware (CFTS 12)	3 1	6 3	MOD

APPENDIX C: OASIS REPORT FORM

PROJECT DETAILS		
Project Name	Gloucester Security of supply water pipeline	
Short description	<p>An archaeological evaluation was undertaken by Cotswold Archaeology between July and August 2009 on land between Strensham, Worcestershire and Knightsbridge, Gloucestershire. A total of 88 trenches was excavated. Archaeological activity represented by cut features and artefacts dating from the Bronze Age to the modern period was represented.</p> <p>A single Late Bronze Age/Early Iron Age ditch was the earliest activity identified. At least four possible settlement sites dating to the late prehistoric period were also identified, represented by trackways, enclosure ditches and two possible roundhouses indicated by a preceding geophysical survey.</p> <p>The evaluation also established that Roman activity, continuing into the 4th century AD, was present in the form of enclosures, field ditches and pits on three of the sites where late prehistoric settlement has been identified.</p> <p>Evidence for medieval, post-medieval and/or modern agricultural practice, comprising field boundary ditches, furrows and field drains, was also identified along the route of the evaluation. An undated possible grave cut was also identified.</p> <p>The evaluation indicates that deposits dating from the Bronze Age, Iron Age, Roman and medieval periods, together with undated features, some of which pre-date the medieval/post-medieval ridge and furrow cultivation, survive at a depth of between 0.3m and 0.65m below the modern ground surface.</p>	
Project dates	20 July to 12 August 2009	
Project type	Archaeological Evaluation	
Previous work	Phase Site Investigations 2009 Archaeological Geophysical Survey ARC/218/147	
Future work	Unknown	
PROJECT LOCATION		
Site Location	Strensham Water treatment works, Worcestershire to Knightsbridge, Gloucestershire	
Study area (M ² /ha)	530 KM ²	
Site co-ordinates (8 Fig Grid Reference)	SO 9175 3948 to SO 8917 2686	
PROJECT CREATORS		
Name of organisation	Cotswold Archaeology	
Project Brief originator	N/A	
Project Design (WSI) originator	ARCUS	
Project Manager	Simon Cox	
Project Supervisor	Stuart Joyce	
PROJECT ARCHIVES		
	Intended final location of archive	Content
Physical	Worcestershire County Museum Service	pottery, CBM, animal bone, fired clay, fuel ash slag, stone and metalwork
Paper	Worcestershire County Museum Service	WSI, pro forma registers, recording

		forms and photographs
Digital	Worcestershire County Museum Service	Digital photographs
BIBLIOGRAPHY		
CA (Cotswold Archaeology) 2009 Security of Supply Water Pipeline, Worcestershire and Gloucestershire Archaeological Evaluation. CA typescript report 09137		

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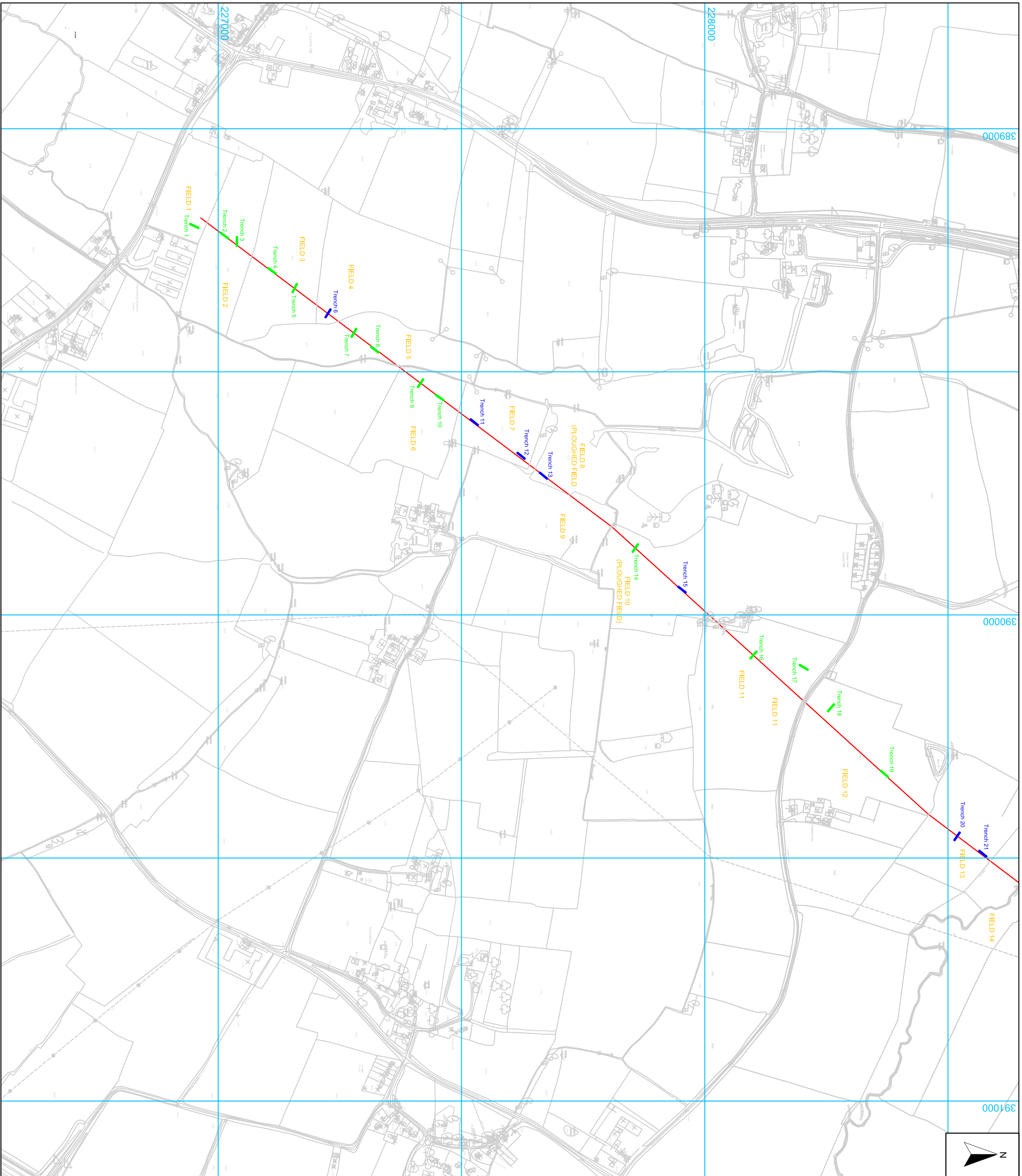
route of pipeline

COTSWOLD ARCHAEOLOGY

PROJECT TITLE
**Security of Supply Pipeline
 Worcestershire and Gloucestershire**

FIGURE TITLE
Site location plan

DRAWN BY	SCALE	PROJECT NO.	FIGURE NO.
RK	1:100,000@A4	2901	1



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- pipeline route
- evaluation trial trench (excavated)
- evaluation trial trench (unexcavated)

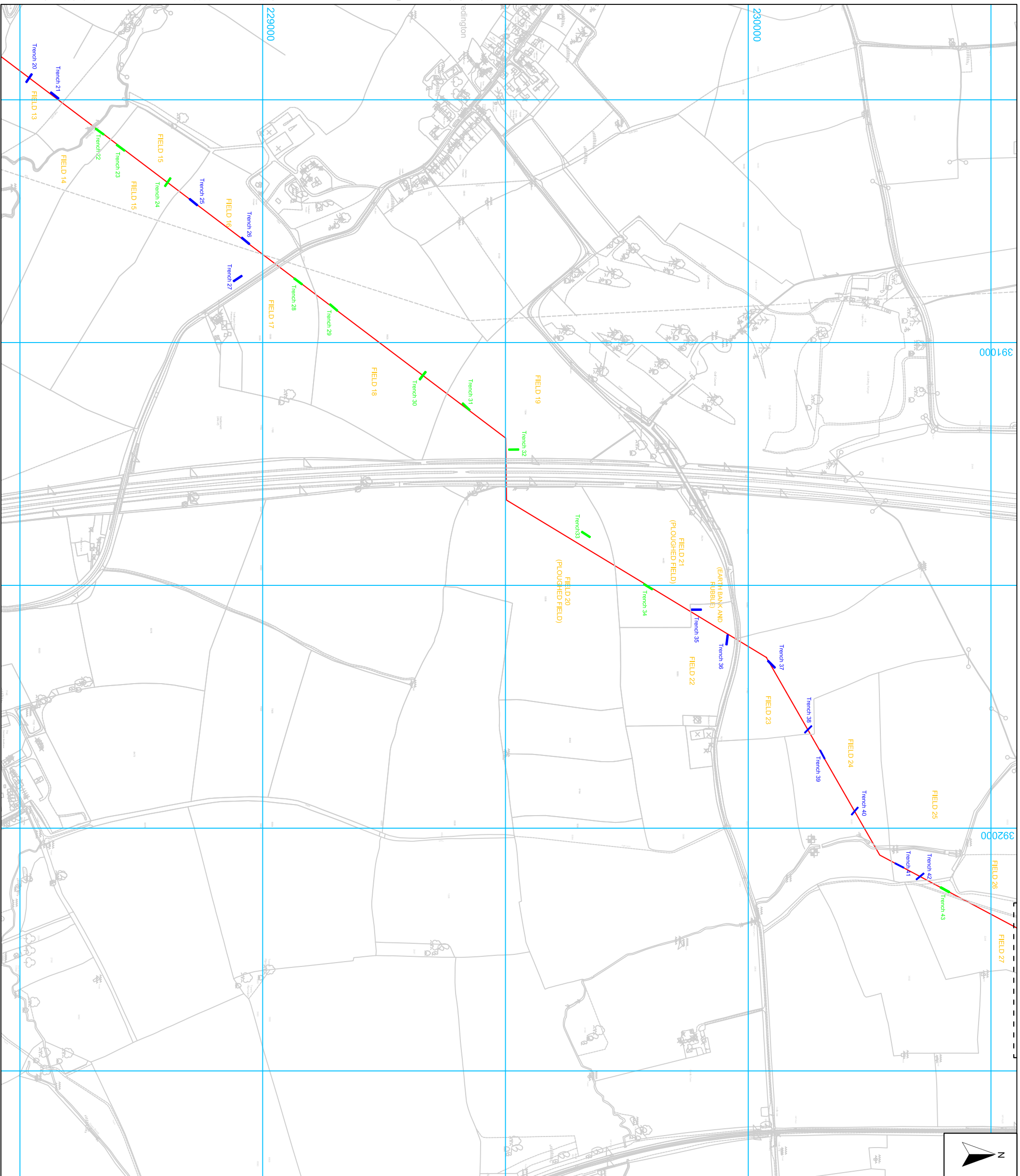


 **COTSWOLD ARCHAEOLOGY**

PROJECT TITLE
 Security of Supply Pipeline
 Worcestershire and Gloucestershire

FIGURE TITLE
 Proposed pipeline route showing
 locations of trial trenching

DRAWN BY RK	SCALE 1:7500@A3	PROJECT NO. 2901	FIGURE NO. 2
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- pipeline route
- evaluation trial trench (excavated)
- evaluation trial trench (unexcavated)

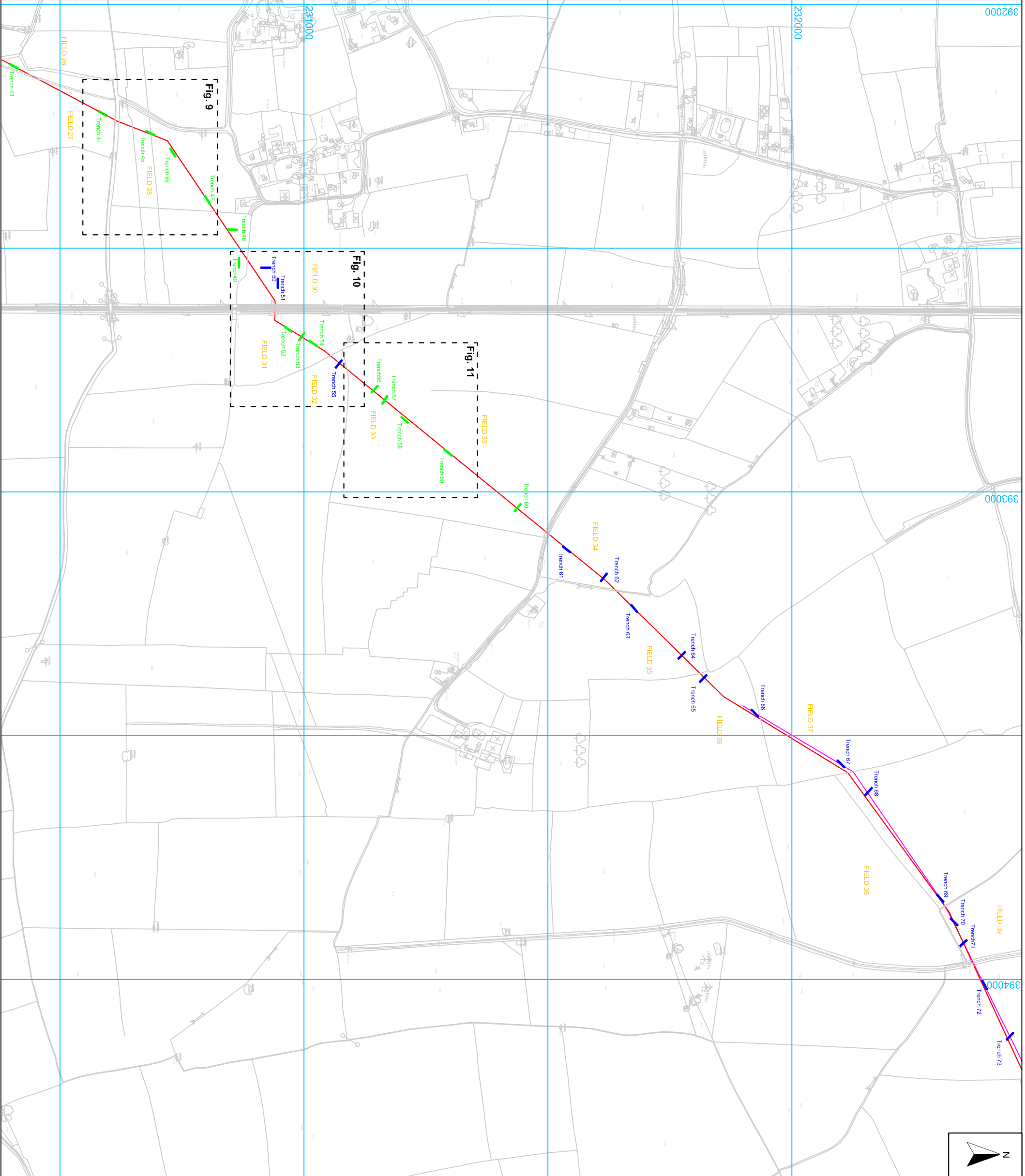


 **COTSWOLD ARCHAEOLOGY**

PROJECT TITLE
Security of Supply Pipeline
Worcestershire and Gloucestershire

FIGURE TITLE
Proposed pipeline route showing
locations of trial trenching

DRAWN BY RK	SCALE 1:7500@A3	PROJECT NO. 2901	FIGURE NO. 3
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- pipeline route
- pipeline re-route
- evaluation trial trench (excavated)
- evaluation trial trench (unexcavated)

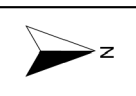


COTSWOLD ARCHAEOLOGY

PROJECT TITLE
Security of Supply Pipeline
Worcestershire and Gloucestershire

FIGURE TITLE
Proposed pipeline route showing
locations of trial trenching

DRAWN BY	SCALE	PROJECT NO.	FIGURE NO.
RK	1:7500@A3	2901	4



- pipeline route
- pipeline re-route
- evaluation trial trench (excavated)
- evaluation trial trench (unexcavated)

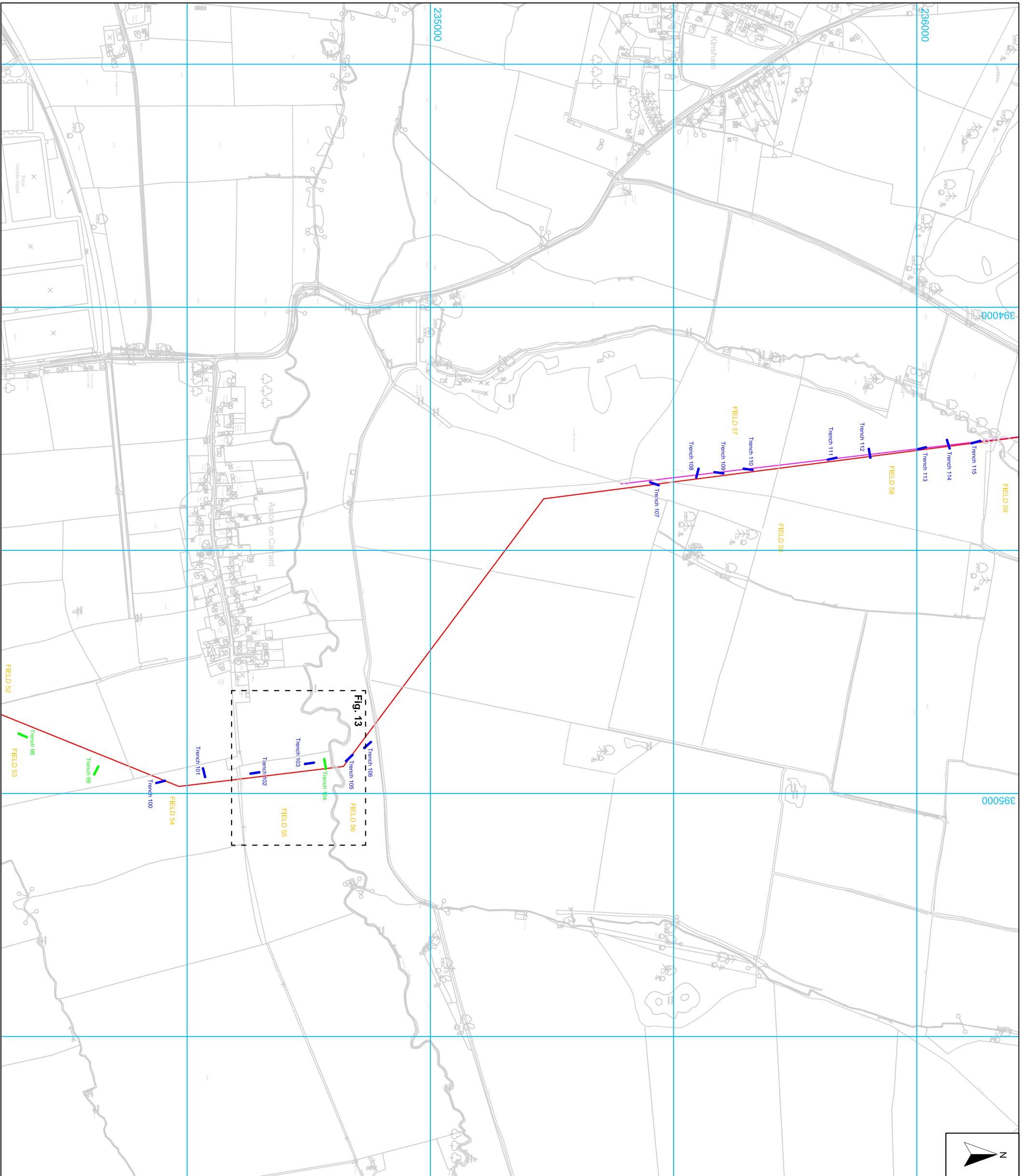


COTSWOLD ARCHAEOLOGY

PROJECT TITLE
Security of Supply Pipeline
Worcestershire and Gloucestershire

FIGURE TITLE
Proposed pipeline route showing
locations of trial trenching

DRAWN BY RK	SCALE 1:7500@A3	PROJECT NO. 2901	FIGURE NO. 5
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- pipeline route
- pipeline re-route
- evaluation trial trench (excavated)
- evaluation trial trench (unexcavated)

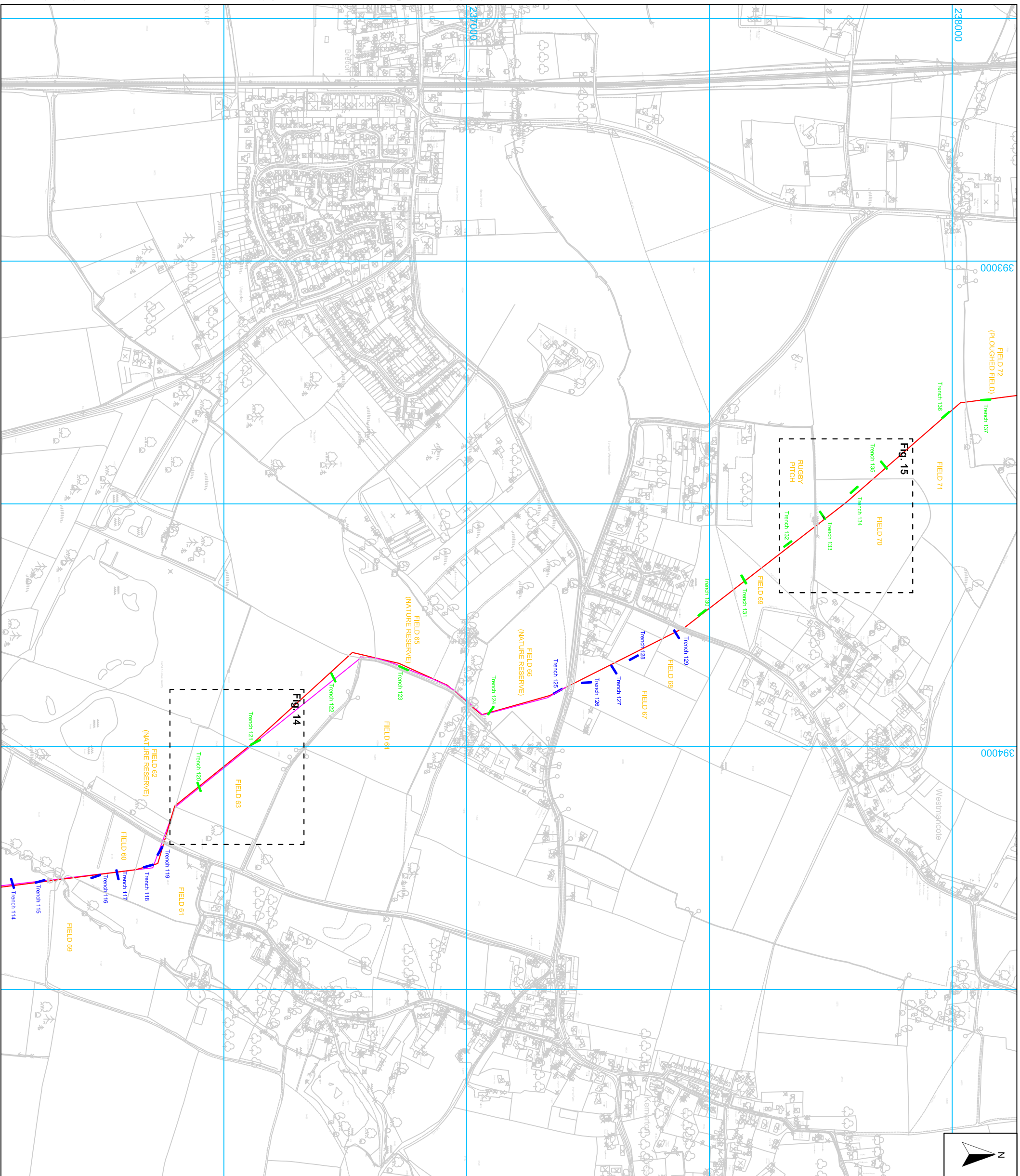
0 400m



PROJECT TITLE
 Security of Supply Pipeline
 Worcestershire and Gloucestershire

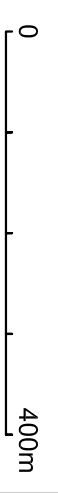
FIGURE TITLE
 Proposed pipeline route showing
 locations of trial trenching

DRAWN BY RK	SCALE 1:7500@A3	PROJECT NO. 2901	FIGURE NO. 6
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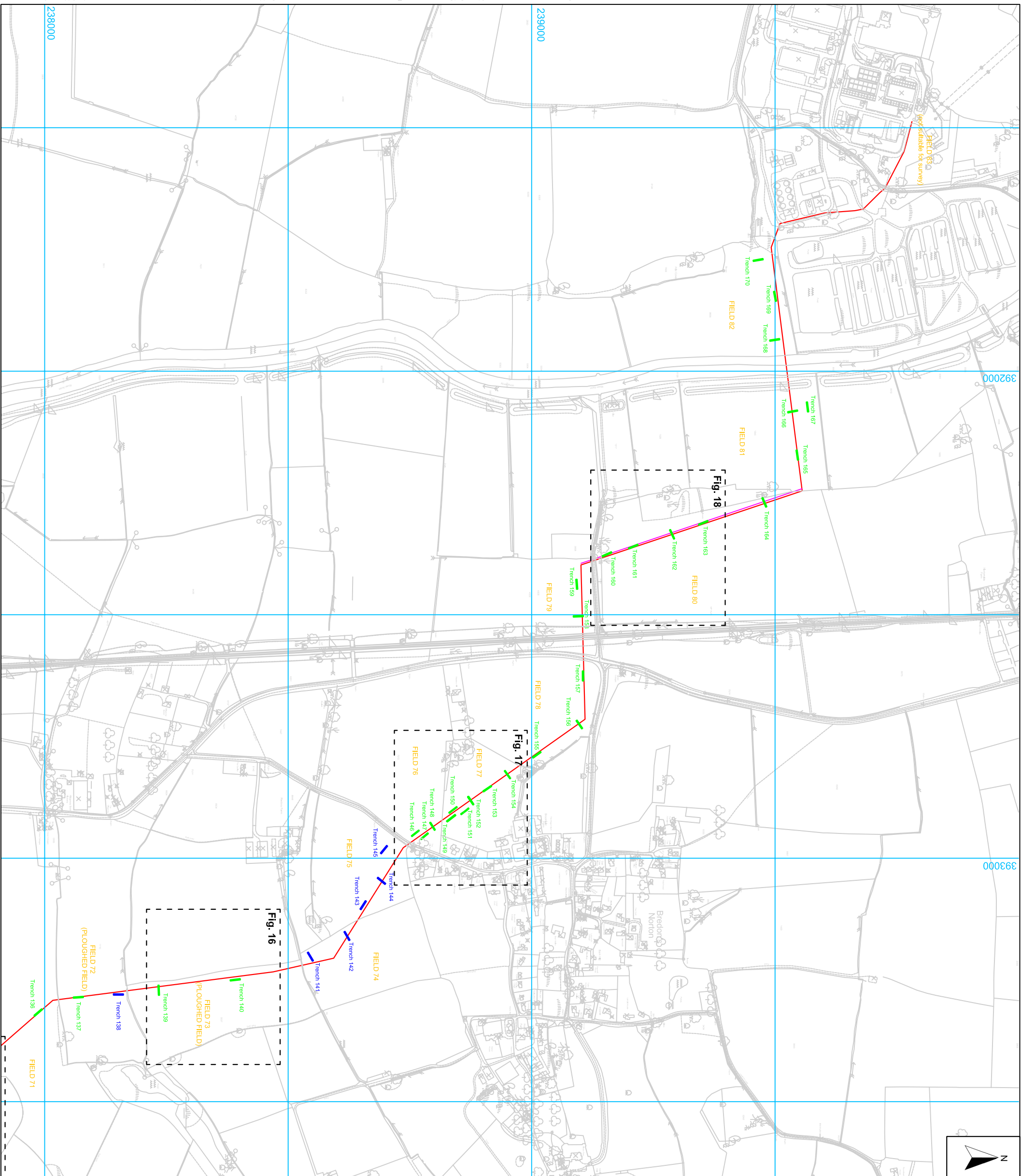


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- pipeline route
- pipeline re-route
- evaluation trial trench (excavated)
- evaluation trial trench (unexcavated)
- evaluation trial trench (unexcavated)

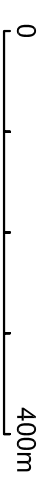


PROJECT TITLE Security of Supply Pipeline Worcestershire and Gloucestershire			
FIGURE TITLE Proposed pipeline route showing locations of trial trenching			
DRAWN BY RK	SCALE 1:7500@A3	PROJECT NO. 2901	FIGURE NO. 7



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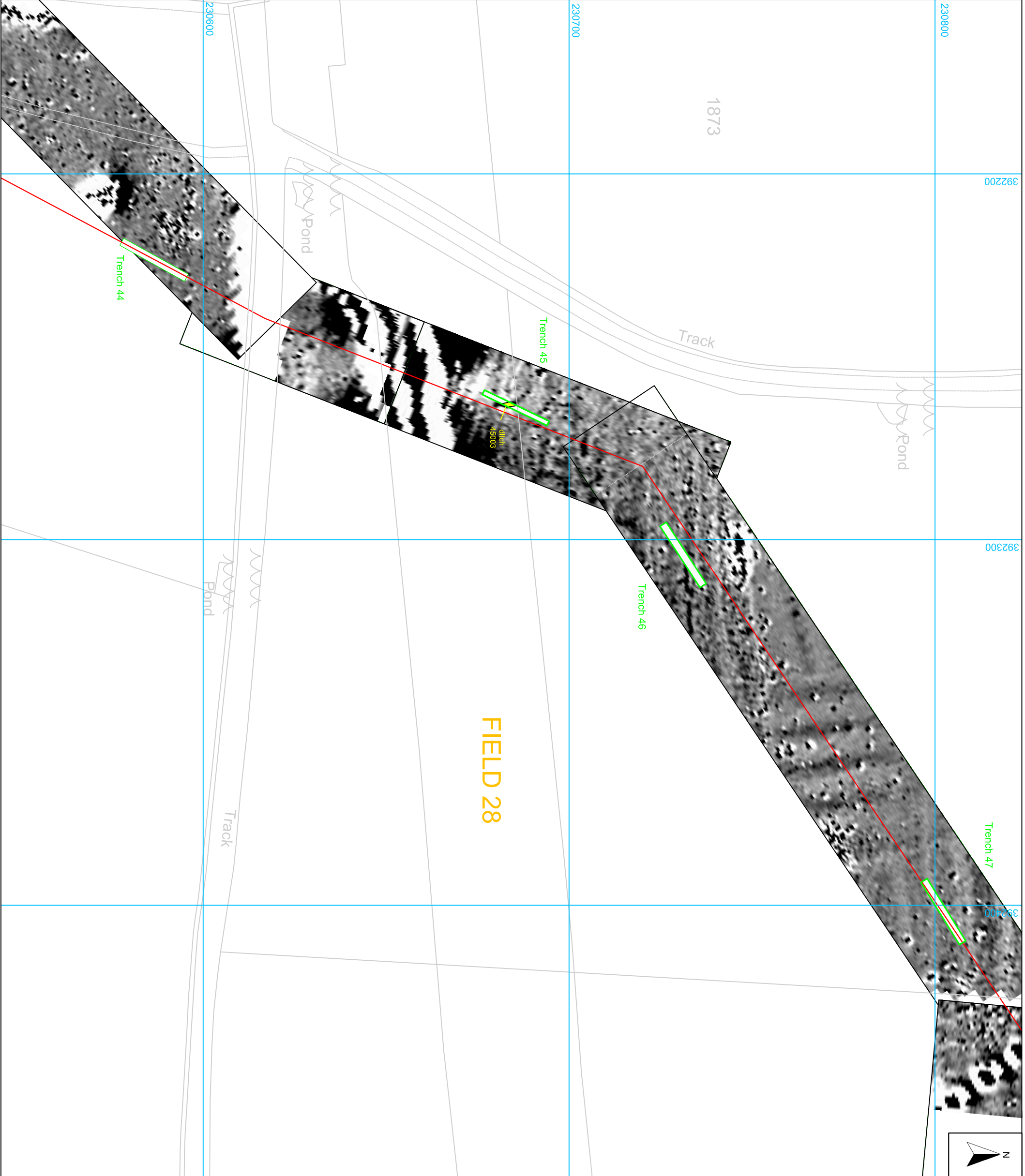
- pipeline route
- evaluation trial trench (excavated)
- evaluation trial trench (unexcavated)



PROJECT TITLE
 Security of Supply Pipeline
 Worcestershire and Gloucestershire


FIGURE TITLE
 Proposed pipeline route showing
 locations of trial trenching

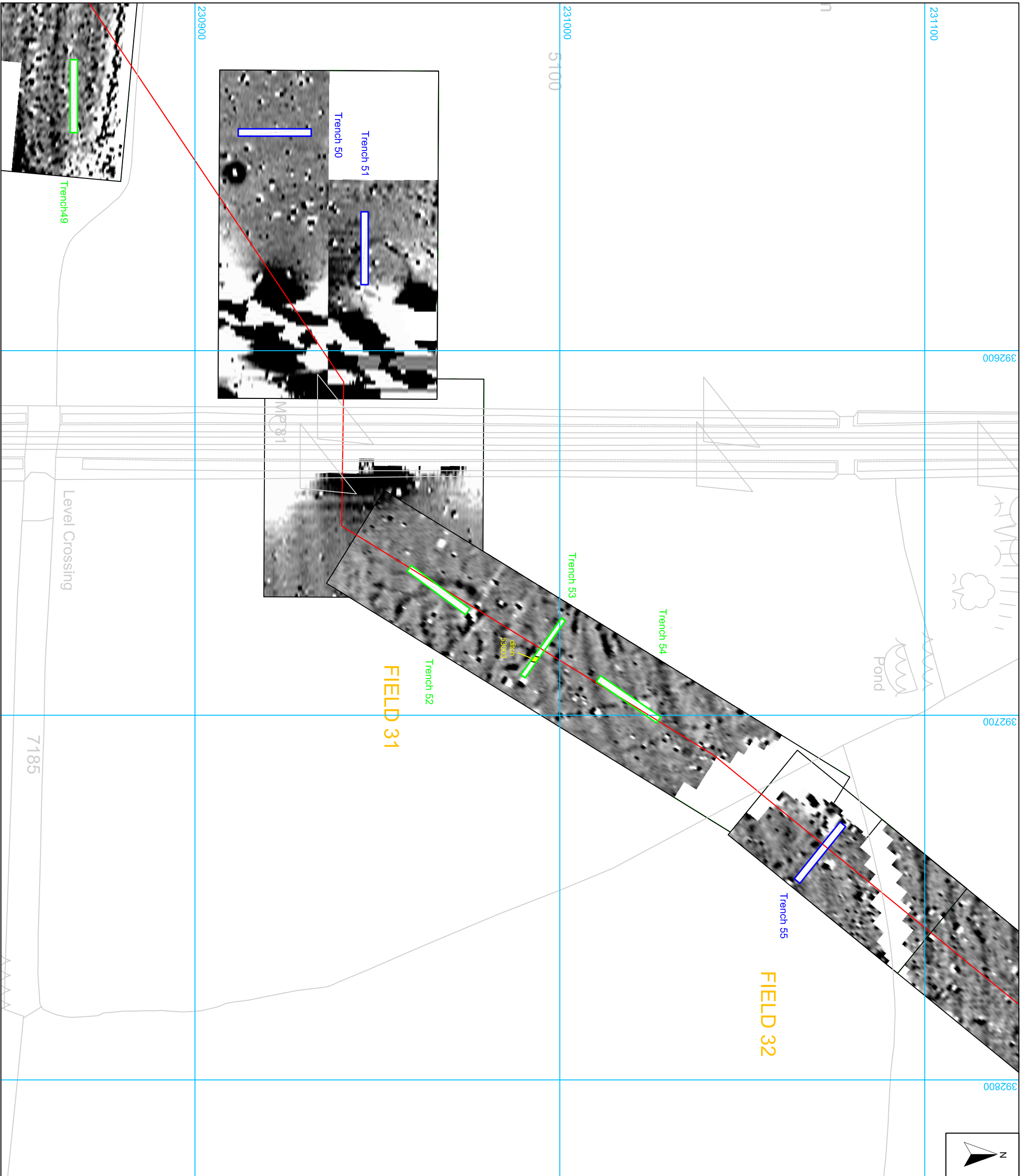
DRAWN BY RK	SCALE 1:7500@A3	PROJECT NO. 2901	FIGURE NO. 8
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- pipeline route
- ▭ evaluation trial trench (excavated)
- ▭ archaeological feature

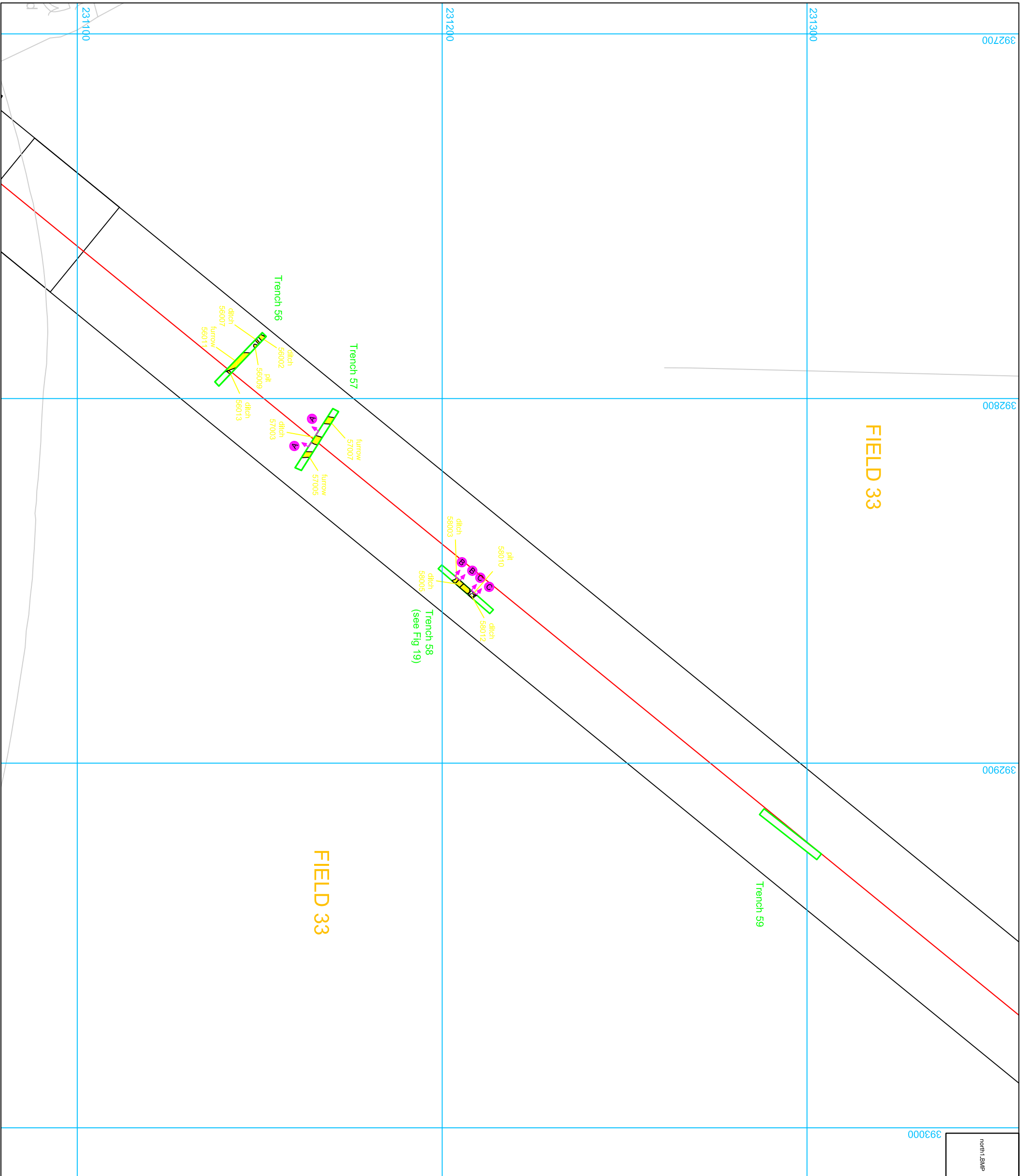
 COTSWOLD ARCHAEOLOGY			
PROJECT TITLE Security of Supply Pipeline Worcestershire and Gloucestershire			
FIGURE TITLE Trench locations and geophysical survey: Field 28			
DRAWN BY	SCALE	PROJECT NO.	FIGURE NO.
RK	1:1000@A3	2901	9



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- pipeline route
- evaluation trial trench (excavated)
- evaluation trial trench (unexcavated)
- archaeological feature

 COTSWOLD ARCHAEOLOGY			
PROJECT TITLE Security of Supply Pipeline Worcestershire and Gloucestershire			
FIGURE TITLE Trench locations and geophysical survey: Field 31			
DRAWN BY RK	SCALE 1:1000@A3	PROJECT NO. 2901	FIGURE NO. 10



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north.LAMP

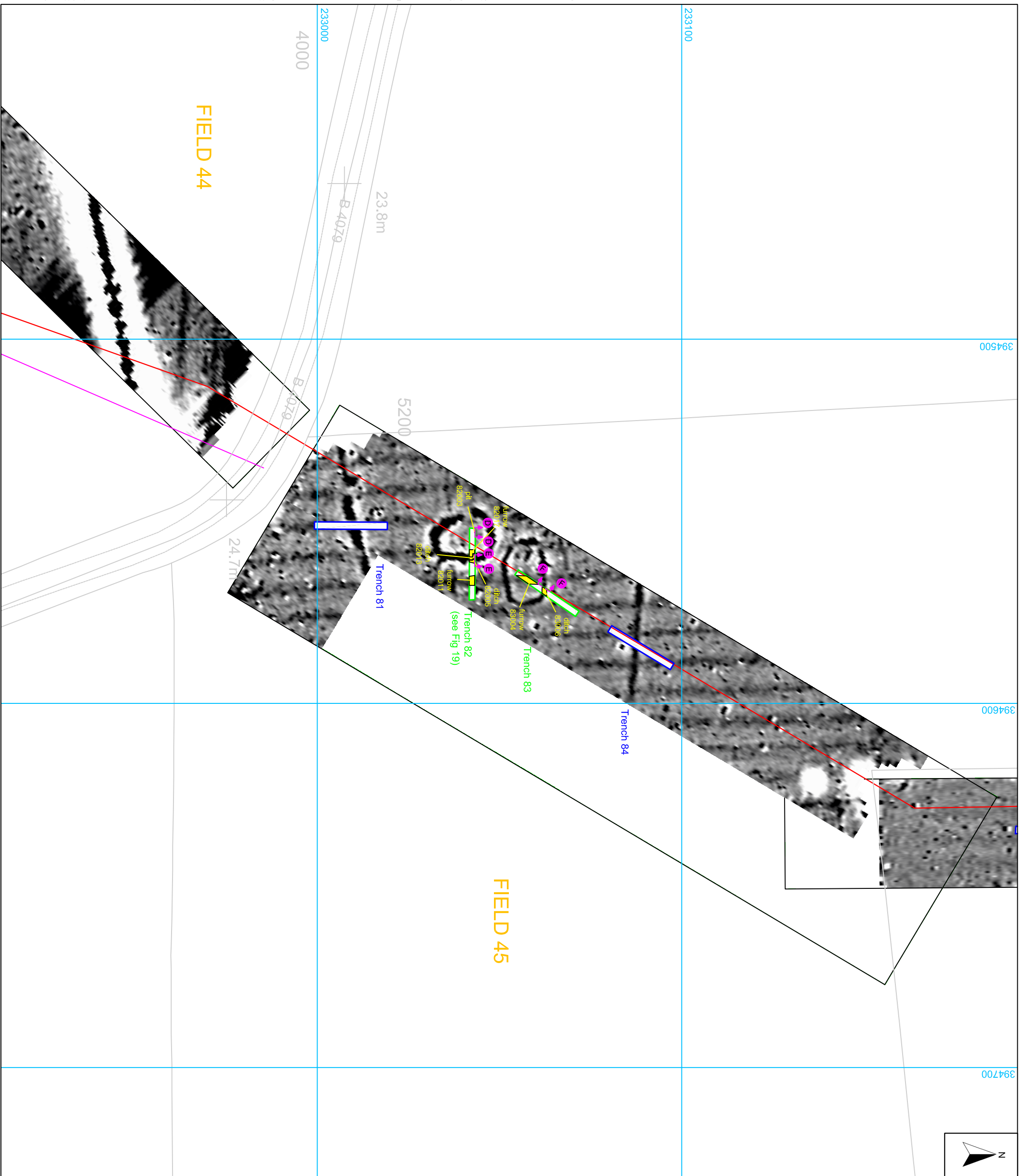
- pipeline route
- evaluation trial trench (excavated)
- evaluation trial trench (unexcavated)
- ↘ archaeological feature

COTSWOLD ARCHAEOLOGY

PROJECT TITLE
 Security of Supply Pipeline
 Worcestershire and Gloucestershire

FIGURE TITLE
**Trench locations and geophysical
 survey: Field 33**

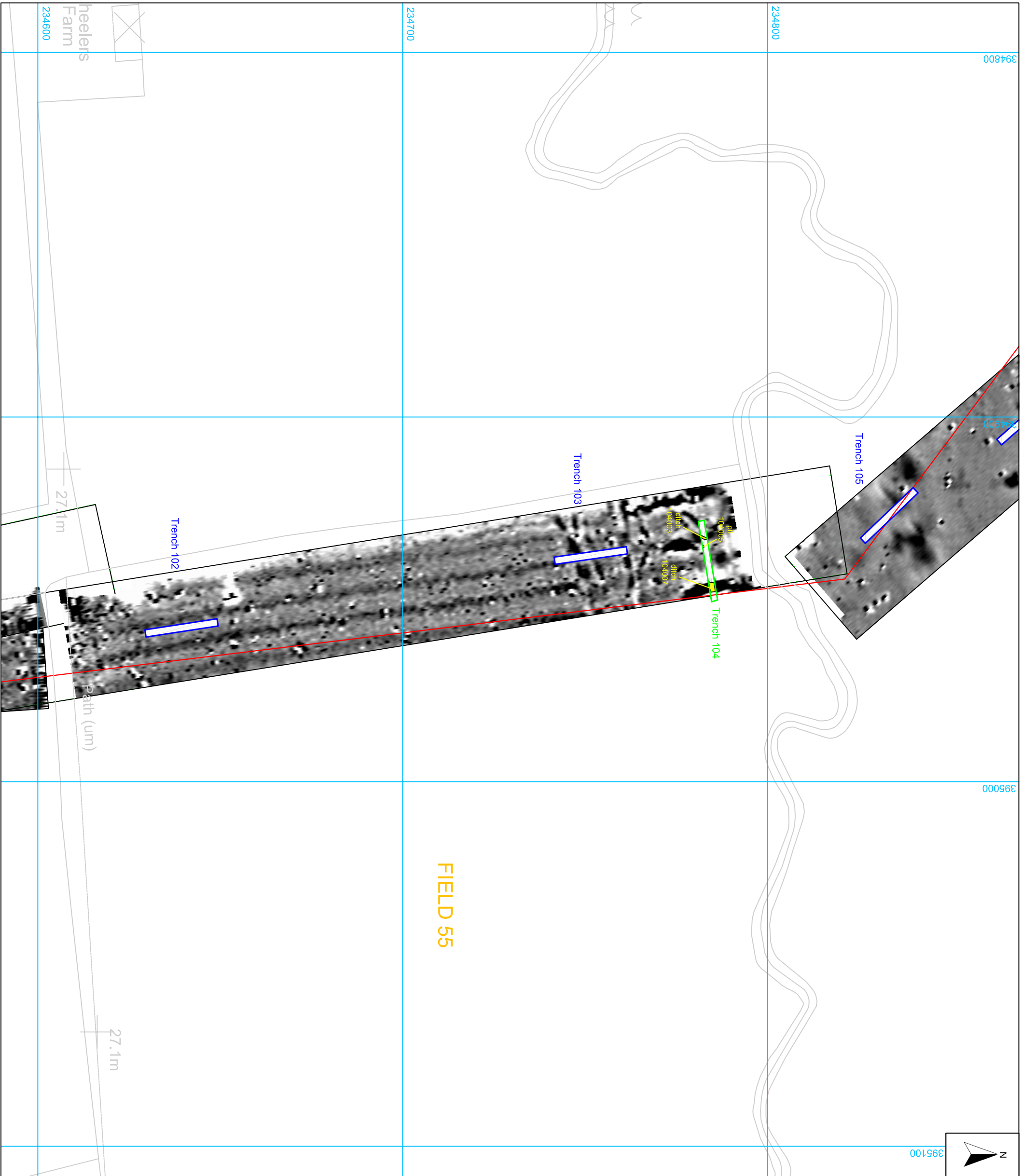
DRAWN BY RK	SCALE 1:1000@A3	PROJECT NO. 2901	FIGURE NO. 11
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- pipeline route
- pipeline re-route
- evaluation trial trench (excavated)
- evaluation trial trench (unexcavated)
- archaeological feature

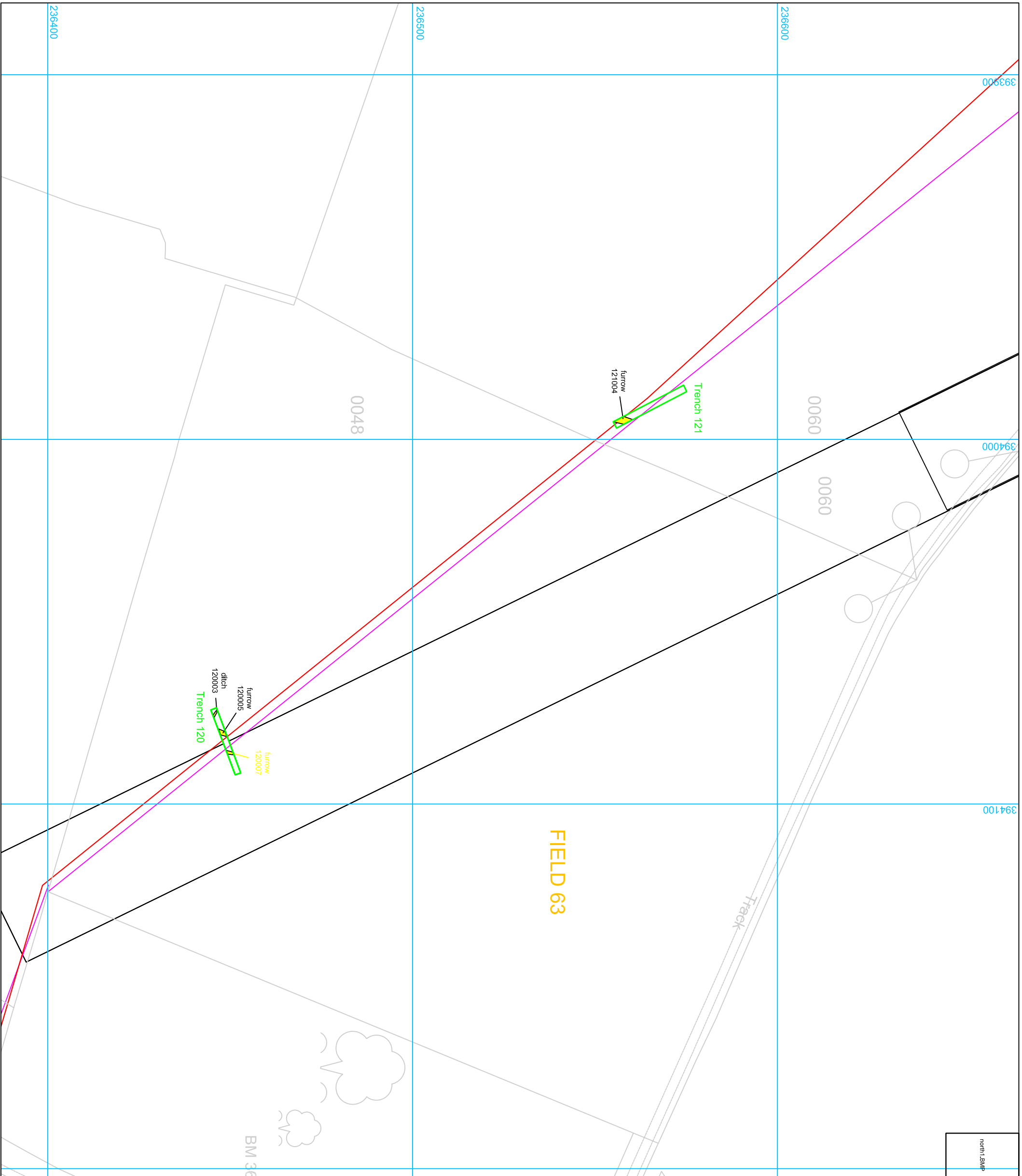
PROJECT TITLE			
Security of Supply Pipeline Worcestershire and Gloucestershire			
FIGURE TITLE			
Trench locations and geophysical survey: Field 45			
DRAWN BY	SCALE	PROJECT NO.	FIGURE NO.
RK	1:1000@A3	2901	12



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- pipeline route
- evaluation trial trench (excavated)
- evaluation trial trench (unexcavated)
- archaeological feature

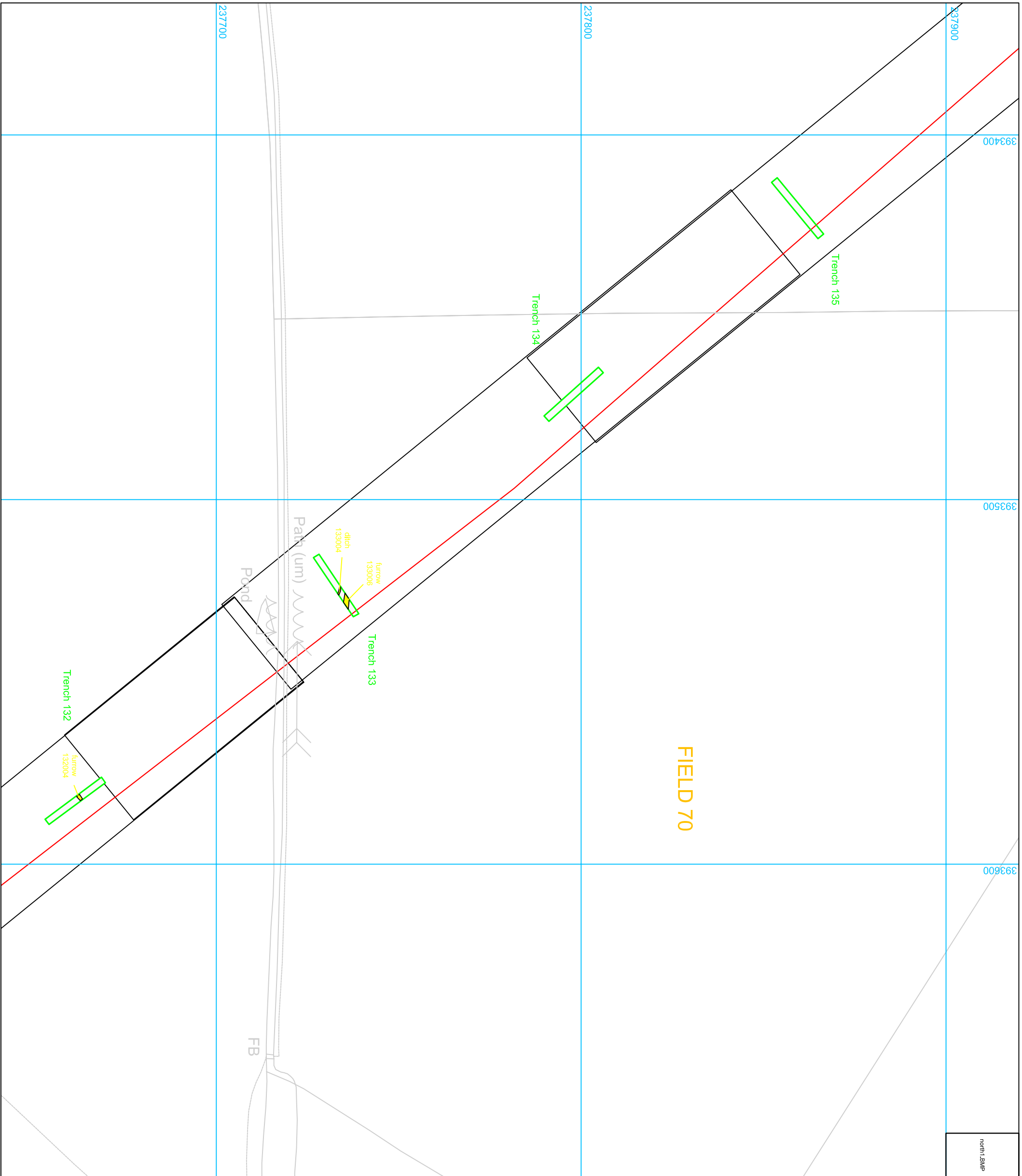
 COTSWOLD ARCHAEOLOGY			
PROJECT TITLE Security of Supply Pipeline Worcestershire and Gloucestershire			
FIGURE TITLE Trench locations and geophysical survey: Field 55			
DRAWN BY RK	SCALE 1:1000@A3	PROJECT NO. 2901	FIGURE NO. 13



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- pipeline route
- pipeline re-route
- evaluation trial trench (excavated)

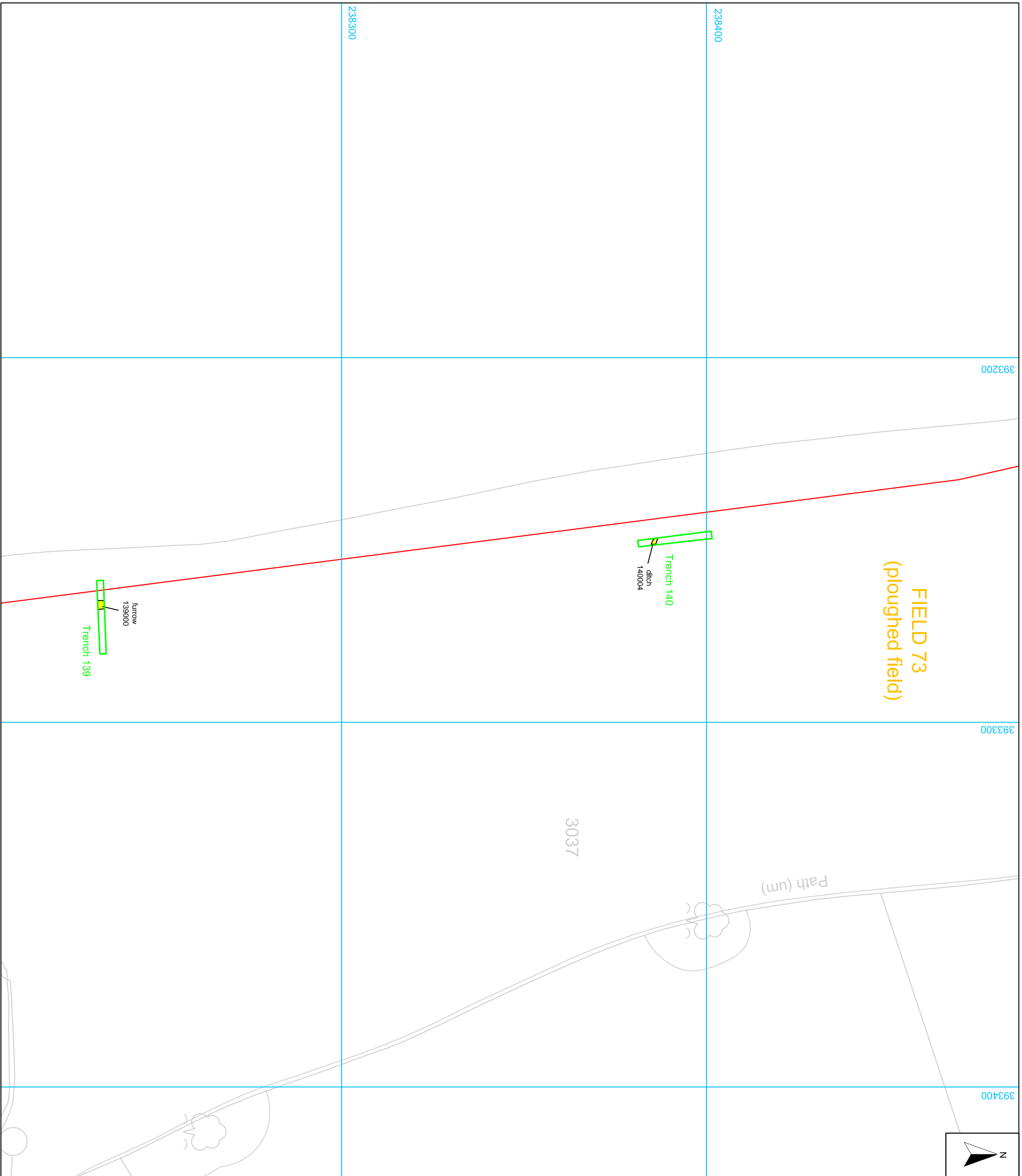
COTSWOLD ARCHAEOLOGY			
<small>PROJECT TITLE</small>			
Security of Supply Pipeline Worcestershire and Gloucestershire			
<small>FIGURE TITLE</small>			
Trench locations and geophysical survey: Field 63			
<small>DRAWN BY</small>	<small>SCALE</small>	<small>PROJECT NO.</small>	<small>FIGURE NO.</small>
RK	1:1000@A3	2901	14



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- pipeline route
- evaluation trial trench (excavated)
- ▾ archaeological feature

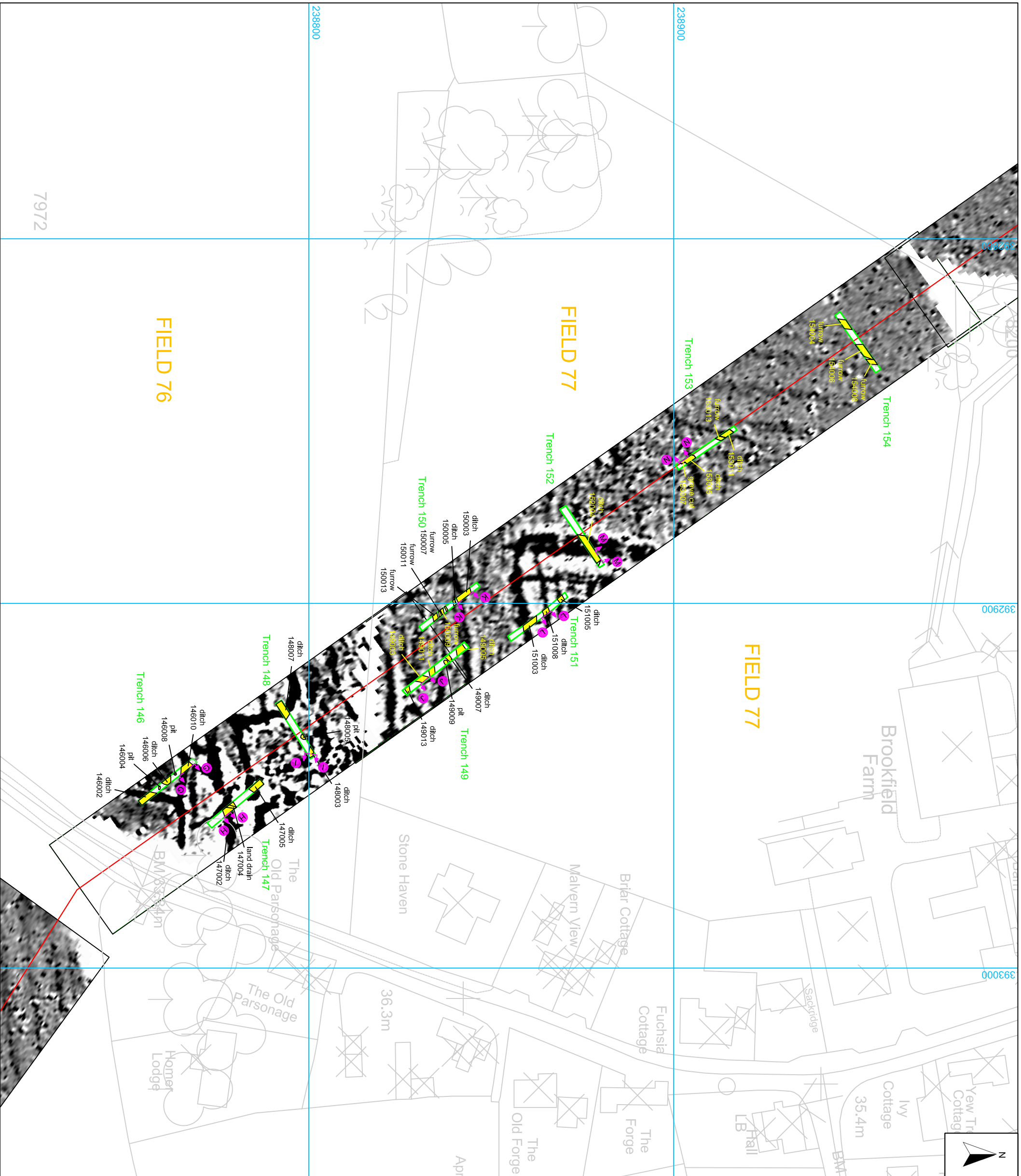
COTSWOLD ARCHAEOLOGY			
<small>PROJECT TITLE</small>			
Security of Supply Pipeline Worcestershire and Gloucestershire			
<small>FIGURE TITLE</small>			
Trench locations and geophysical survey: Field 70			
<small>DRAWN BY</small>	<small>SCALE</small>	<small>PROJECT NO.</small>	<small>FIGURE NO.</small>
RK	1:1000@A3	2901	15



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- pipeline route
- evaluation trial trench (excavated)
- archaeological feature

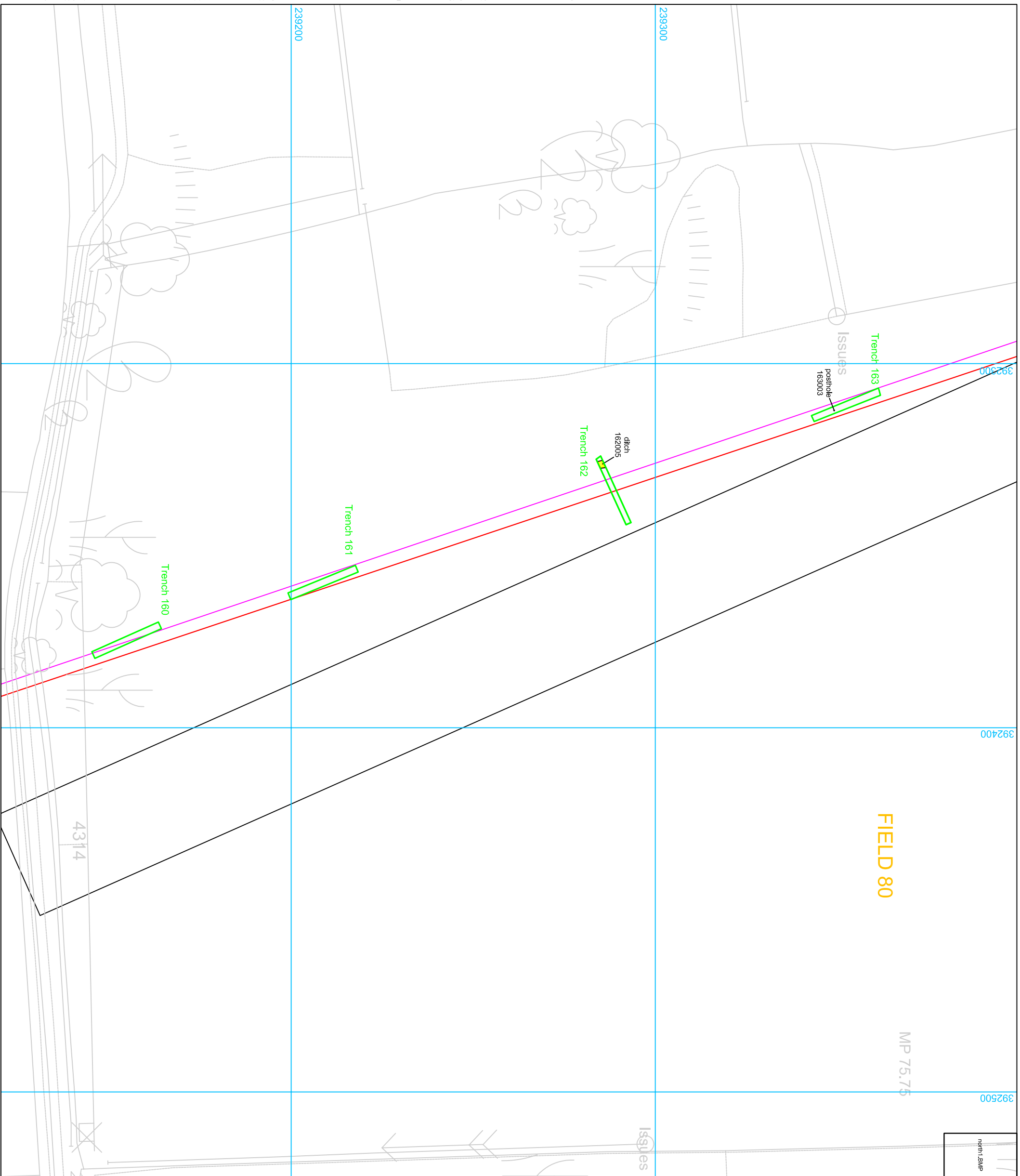
COTSWOLD ARCHAEOLOGY			
PROJECT TITLE Security of Supply Pipeline Worcestershire and Gloucestershire			
FIGURE TITLE Trench locations and geophysical survey: Field 73			
DRAWN BY RK	SCALE 1:1000@A3	PROJECT NO. 2901	FIGURE NO. 16



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- pipeline route
- evaluation trial trench (excavated)
- archaeological feature

PROJECT TITLE Security of Supply Pipeline Worcestershire and Gloucestershire			
FIGURE TITLE Trench locations and geophysical survey: Field 76 & 77			
DRAWN BY RK	SCALE 1:1000@A3	PROJECT NO. 2901	FIGURE NO. 17

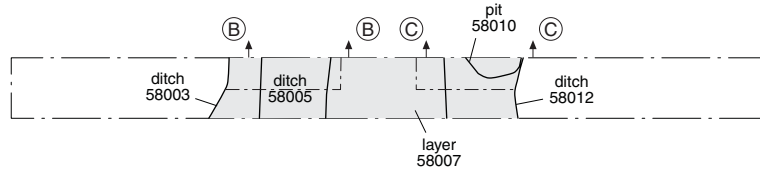


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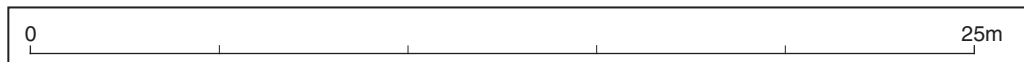
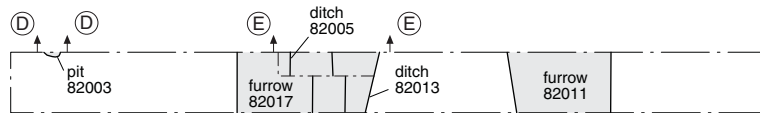
- pipeline route
- pipeline re-route
- evaluation trial trench (excavated)
- ▾ archaeological feature

COTSWOLD ARCHAEOLOGY			
<small>PROJECT TITLE</small>			
Security of Supply Pipeline Worcestershire and Gloucestershire			
<small>FIGURE TITLE</small>			
Trench locations and geophysical survey: Field 80			
<small>DRAWN BY</small>	<small>SCALE</small>	<small>PROJECT NO.</small>	<small>FIGURE NO.</small>
RK	1:1000@A3	2901	18

Trench 58



Trench 82



COTSWOLD ARCHAEOLOGY

PROJECT TITLE

Security of Supply Pipeline
Worcestershire and Gloucestershire

FIGURE TITLE

Trenches 58 and 82: plans

DRAWN BY

PJM

SCALE

1:200@A4

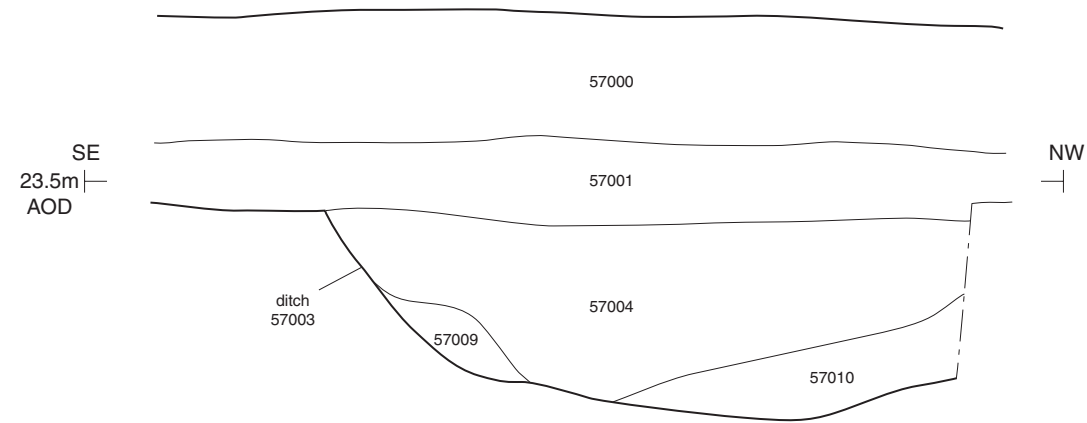
PROJECT NO.

2901

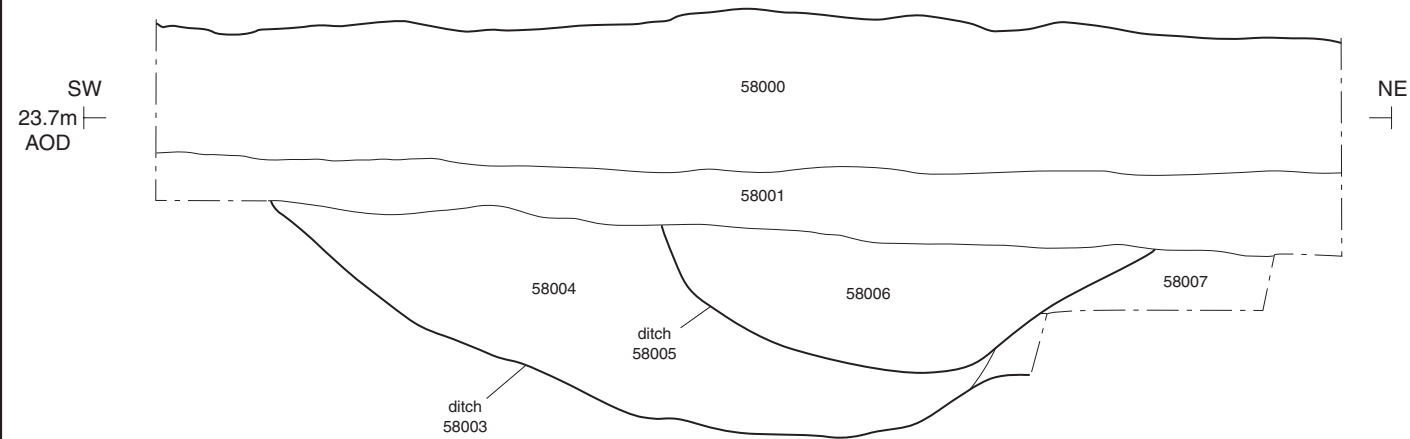
FIGURE NO.

19

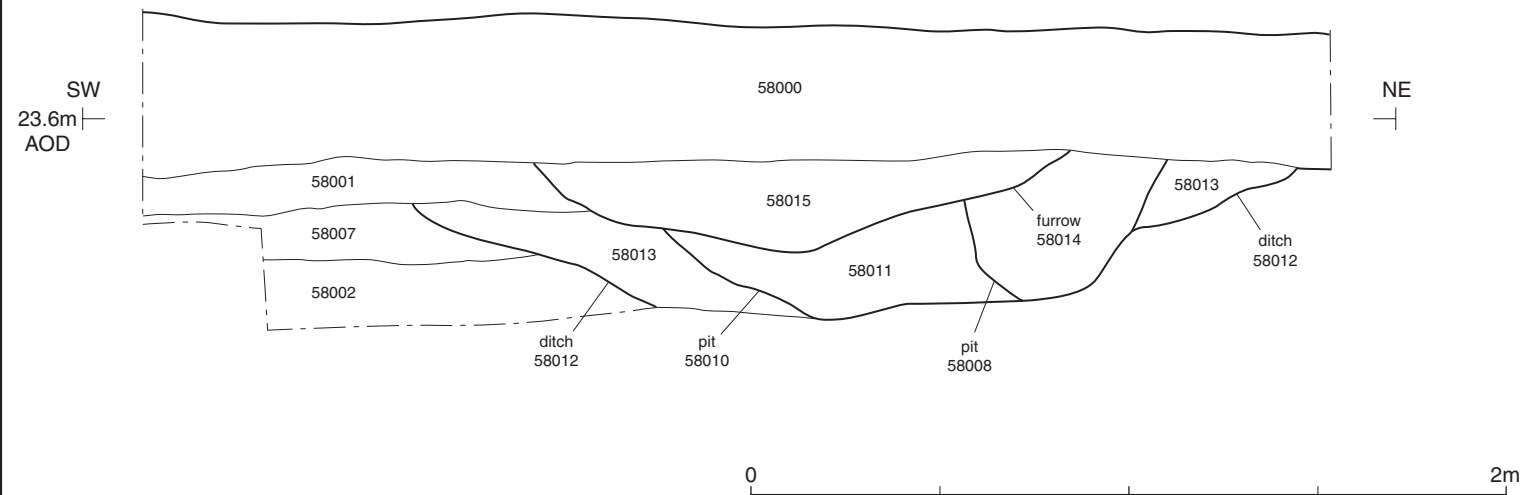
Section AA



Section BB



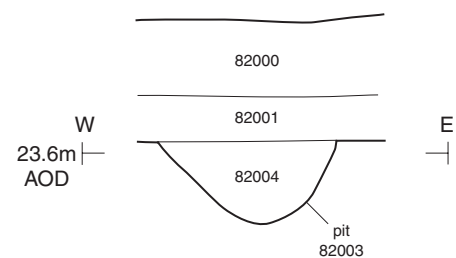
Section CC



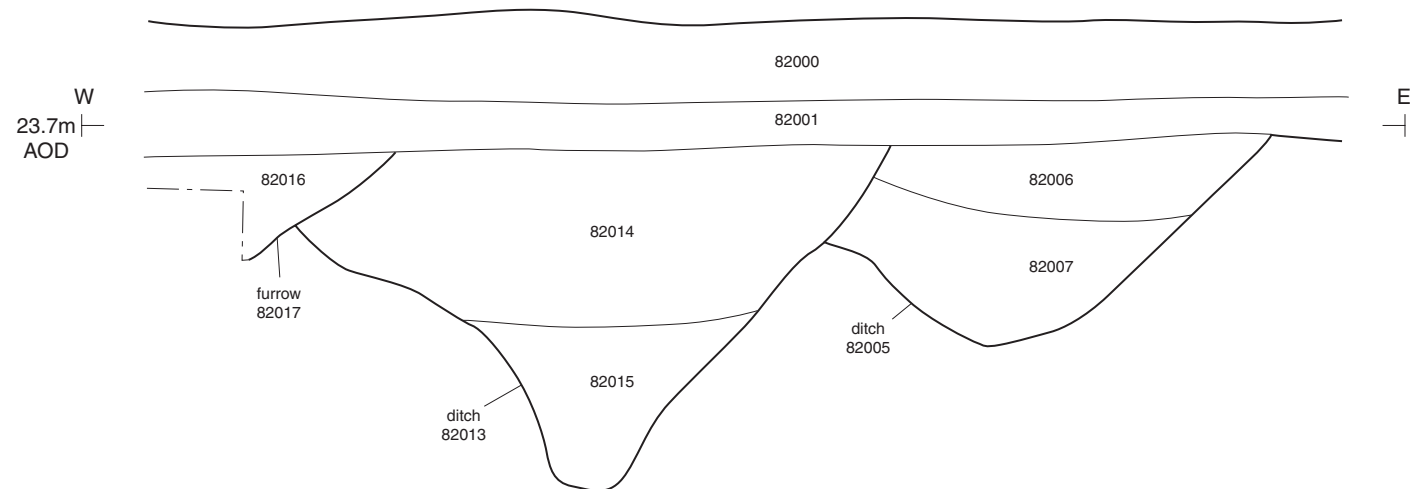
Photograph: north-east facing section through ditch 57003



Section DD



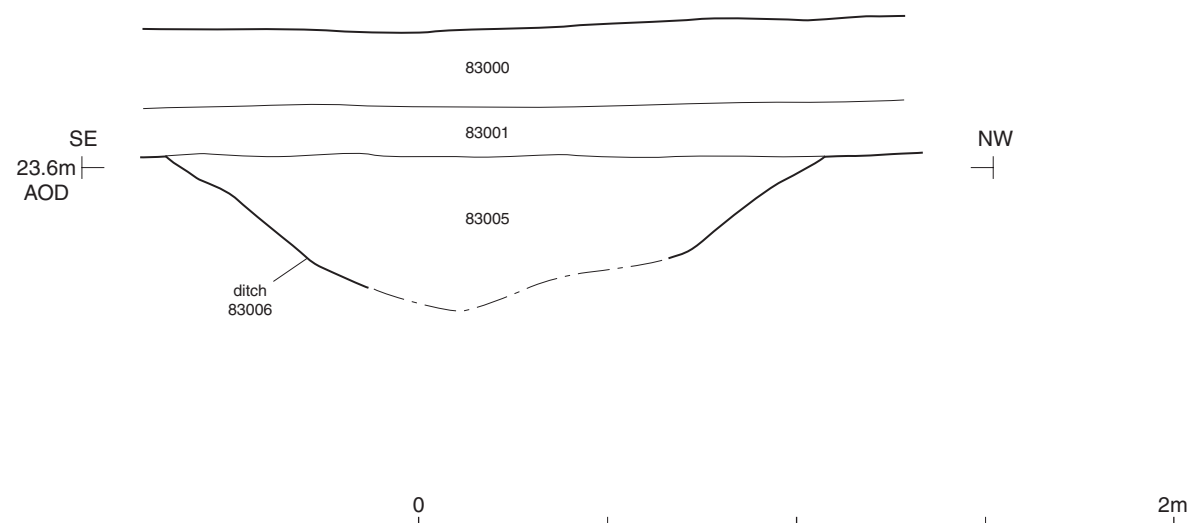
Section EE



Photograph: south-east facing section through ditch 82013



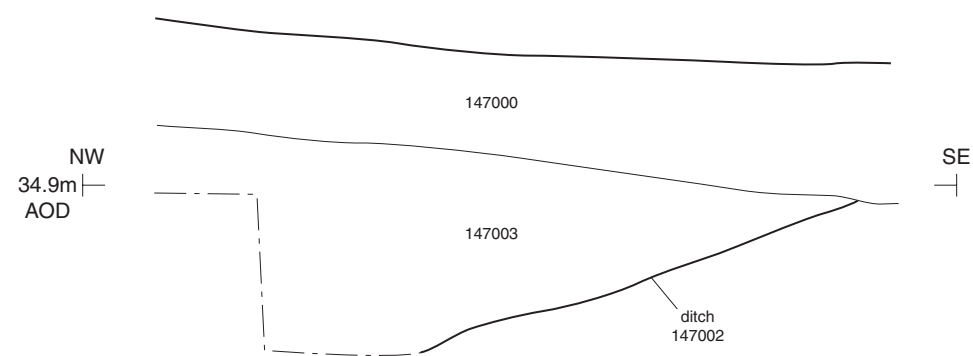
Section FF



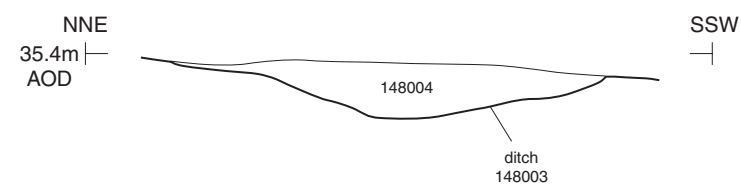
Section GG



Section HH



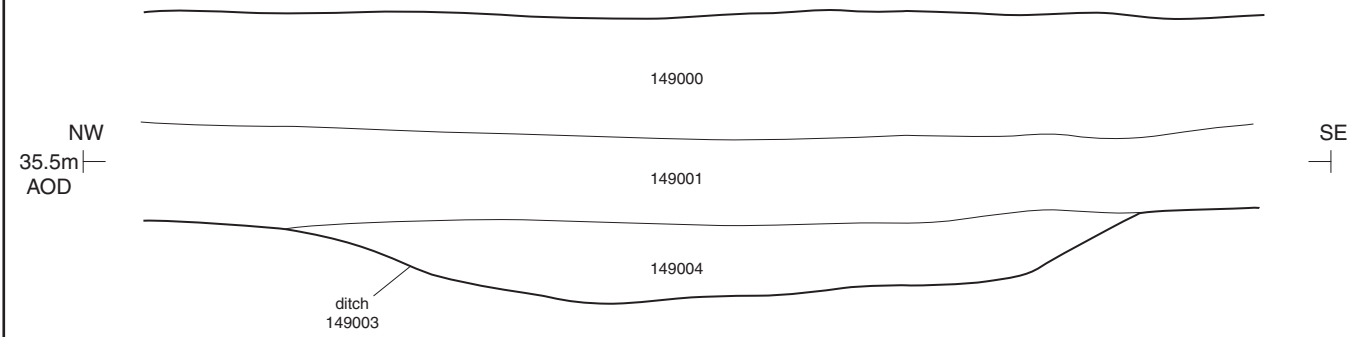
Section II



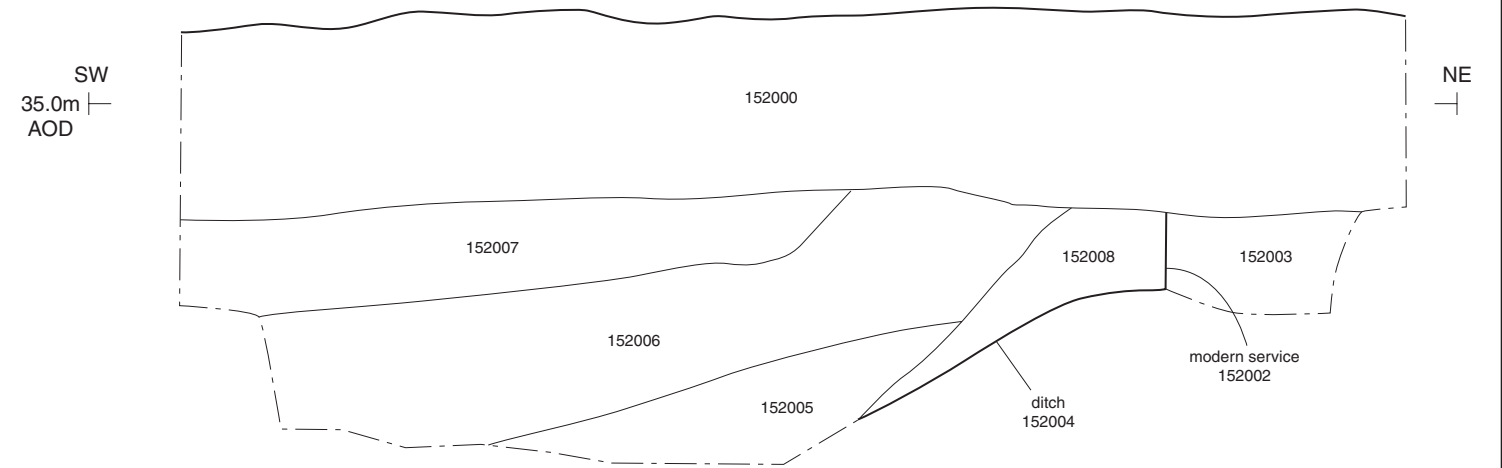
Photograph: south-west facing section through ditch 147002



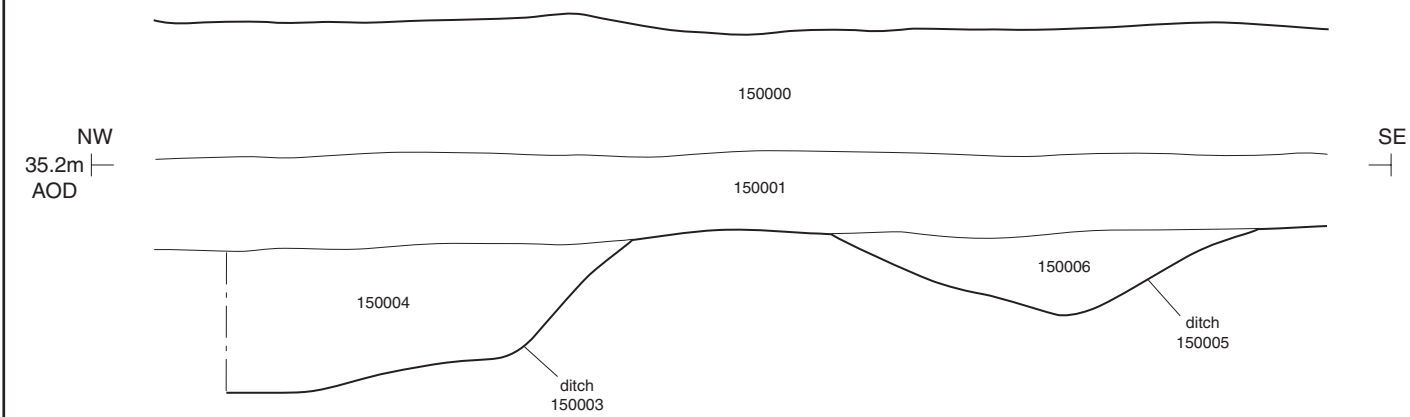
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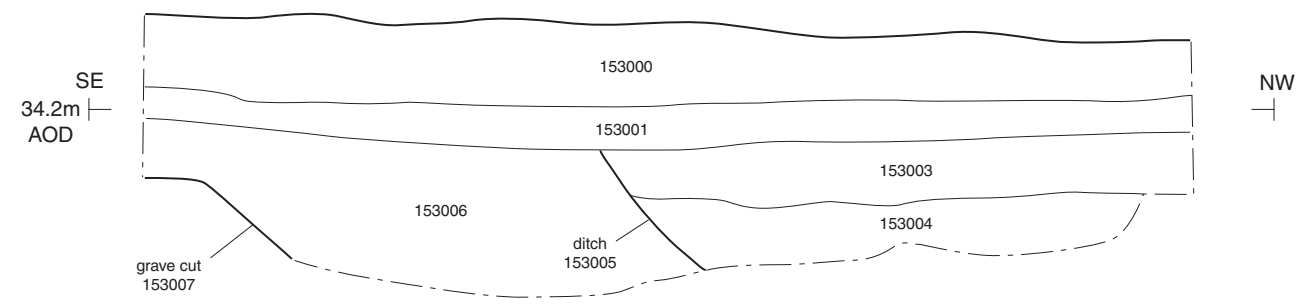
Section MM



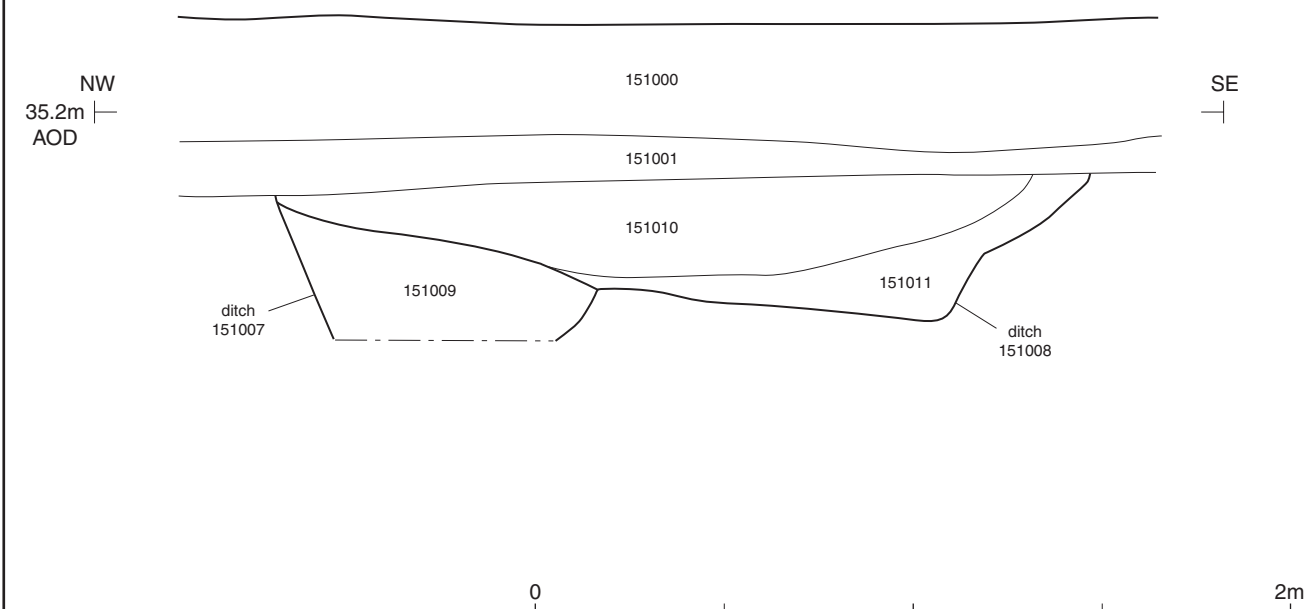
Section KK



Section NN




Section LL



Photograph: south-east facing section through ditch 152004



 COTSWOLD ARCHAEOLOGY			
<small>PROJECT TITLE</small> Security of Supply Pipeline Worcestershire and Gloucestershire			
<small>FIGURE TITLE</small> Field 77: sections and photograph			
<small>DRAWN BY</small>	<small>SCALE</small>	<small>PROJECT NO.</small>	<small>FIGURE NO.</small>
RK	1:20@A3	2901	23