

Supplementary information for assignment two, the MoRPHE compliant project design.

The following paragraphs/sections have been taken directly from a company template:

1.1.1.

1.1.5

2.1.2

3.2

4.3

4.4

5 (with the exception of 5.1.2)

7 (with the exception of 7.1.1. and 7.1.7 and 7.5.4)

9

12.1

The following paragraphs/sections are based on a company template but have been modified slightly to fit the assignment and/or the Site chosen for the WSI:

1.1.2

1.1.3

2.1.1

2.1.3

2.1.4

3.1.1

7.1.1

7.5.4

All other paragraphs/sections are original work.

Bedford Borough Council Event/Activity Full Report

29/03/2022

Number of records: 8

Events

Event ID	Event Name	Event Type
EBB568	Willington to Steppingley Gas Pipeline; Magnetic Susceptibility and Fluxgate Gradiometer Survey	Event - Survey

External Reference:

Dates: 01/01/1991 - 31/01/1991, between (1991)

Project Details:

Event/Activity Types

Geophysical Survey

Thesaurus Event Types

GEOPHYSICAL SURVEY

Event/Activity References - None recorded

Organisation: Pre-Construct Geophysics

Associated Individuals - None recorded

Associated Organisations - None recorded

Location

Grid Reference

Centred TL 0870 4504 (6506m by 7997m) TL04NE Dispersed

Administrative Areas

Civil Parish	AMPTHILL, CENTRAL BEDFORDSHIRE, BEDFORDSHIRE
Civil Parish	CARDINGTON, BEDFORD BOROUGH, BEDFORDSHIRE
Civil Parish	COPLE, BEDFORD BOROUGH, BEDFORDSHIRE
Civil Parish	EASTCOTTS, BEDFORD BOROUGH, BEDFORDSHIRE
Civil Parish	HAYNES, CENTRAL BEDFORDSHIRE, BEDFORDSHIRE
Civil Parish	HOUGHTON CONQUEST, CENTRAL BEDFORDSHIRE, BEDFORDSHIRE
Civil Parish	MILLBROOK, CENTRAL BEDFORDSHIRE, BEDFORDSHIRE
Civil Parish	STEPPINGLEY, CENTRAL BEDFORDSHIRE, BEDFORDSHIRE
Civil Parish	WILLINGTON, BEDFORD BOROUGH, BEDFORDSHIRE
Civil Parish	WILSHAMSTEAD, BEDFORD BOROUGH, BEDFORDSHIRE

Address - None recorded

Description and Sources

Description

Magnetic susceptibility and fluxgate gradiometer surveys were undertaken along the proposed route of a gas pipeline; to be constructed between Willington and Steppingley in Bedfordshire.

The survey detected a range of potentially significant anomalies, some of which appear to represent elements of settlements, enclosures, ridge and furrow and land divisions. Supplementary work established that many of these anomalies reflect traces of prehistoric and Roman-British settlement remains.

A large Romano-British settlement complex was detected at the northern end of the proposed route. Most appear to date from the later prehistoric period.

Sources

Unpublished document: Pre-Construct Archaeology. Pre-Construct: Geophysical Survey. January 2002

Associated Monuments

Event ID: EBB568 **Name:** Willington to Steppingley Gas Pipeline; Magnetic Susceptibility and Fluxgate

18185	ROMANO-BRITISH OCCUPATION (Monument 18185)
18186	IRON AGE ENCLOSURES (Monument 18186)
18188	IRON AGE OCCUPATION AND MEDIEVAL FIELD SYSTEM; S of Manor Farm (Monument 18188)
1861	CROPMARKS; S of Willington (Monument 1861)

Event ID: EBD316 **Name:** Rookery Farm, Cotton End, Eastcotts, Area Centred TL178455

Event ID	Event Name	Event Type
EBD316	Rookery Farm, Cotton End, Eastcotts, Area Centred TL178455 Bedfordshire: Aerial Photographic Assessment	Event - Survey

External Reference: 2005/18

Dates: 01/08/2005 - 31/08/2005, between (August 2005)

Project Details:

Event/Activity Types

Air Photo Survey

Thesaurus Event Types

AERIAL PHOTOGRAPH INTERPRETATION

Event/Activity References - None recorded

Organisation: Air Photo Services

Associated Individuals - None recorded

Associated Organisations - None recorded

Location

Grid Reference

Centred TL 0768 4548 (1596m by 1745m) TL04NE Area

Administrative Areas

Civil Parish EASTCOTTS, BEDFORD BOROUGH, BEDFORDSHIRE

Address - None recorded

Description and Sources

Description

The evaluation identified archaeological remains dating from the late Bronze Age through to the post-medieval period. Prehistoric activity comprised two late Bronze Age pits and a small farmstead which dated from the middle Iron Age. Several pits and three parallel but widely spaced ditches also dated to the Iron Age. Two Roman rural settlement sites were identified, one of which superseded the Iron Age farmstead. Parts of a possible Romano-British field system were also present; a late medieval/ post-medieval trackway may follow the line of a former Romano-British land boundary. Other principal areas of interest comprised a medieval field system associated with the medieval moated manor house and deserted village of Medbury, and features relating to late medieval/ post-medieval quarrying.

Sources

Unpublished document: Air Photo Services: Aerial Photographic Assessment. 2005/18

Associated Monuments

10480	ROMAN ROAD, Viatores No 210 (Monument 10480)
1181	CROPMARKS & ROMAN FINDS on Eastcotts/Wilstead parish boundary (Monument 1181)
15818	MEDIEVAL MOATED SITE AND SHRUNKEN VILLAGE; NW of Rookery Farm, Cotton End (Monument 15818)
16659	CROPMARKS, North West of Rookery Farm (Monument 16659)
16660	CROPMARKS, W of Eastcotts Sewage Works (Monument 16660)
3296	RIDGE AND FURROW, Eastcotts parish (Monument 3296)

Event ID: EBB999 **Name:** THE PADDOCK, BELL LANE, COTTON END; Archaeological Field

Event ID	Event Name	Event Type
EBB999	THE PADDOCK, BELL LANE, COTTON END; Archaeological Field Evaluation	Event - Intervention

External Reference: 2016.30

Dates: 31/05/2016 - 31/05/2016, throughout (June 2016)

Project Details:

Event/Activity Types - None recorded

Thesaurus Event Types

TRIAL TRENCH

Event/Activity References

HOB - NRHE (Pastscape)	1617084
OASIS - OASIS	albionar1-250690

Organisation: Albion Archaeology

Associated Individuals - None recorded

Associated Organisations - None recorded

Location

Grid Reference

Centred TL 0860 4535 (50m by 54m)	TL04NE	Area
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Administrative Areas

Civil Parish	EASTCOTTS, BEDFORD BOROUGH, BEDFORDSHIRE
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Address - None recorded

Description and Sources

Description

Bedford Borough Council granted planning permission (10/01571/FUL) for the erection of two one-and-a-half storey dwellings on land at The Paddock, Bell Lane, Cotton End.

The trial trenching took place on 31st May 2016. Three trenches were excavated, measuring 12m by 1.8m which equates to a 4% sample of the 1,340m² site. The trenches were positioned to target the footprint of the new buildings.

Archaeological features and layers of 19th/20th-century date were present in all three trenches. They comprised four ditches, a concrete and a brick foundation, a pit, a post hole, and a layer, all of which contained modern artefacts.

The ditches are interpreted as modern boundary/drainage ditches associated with Cotton End village.

The foundations are interpreted as the remains of the 20th-century glass houses known to have been present on the site from aerial photographs (BBC 2016). The pit, post hole and layer are contemporary with the glass houses and probably associated.

No features, deposits or artefacts of earlier date were present within the trenches.

The 19th/20th-century remains are of limited archaeological interest and have no potential to address regional research frameworks. As a result, the proposed development is very unlikely to have any impact on archaeological heritage assets.

Sources

Unpublished document: Albion Archaeology. Albion Archaeology: Archaeological Field Evaluation.

Associated Monuments

Event ID: EBB999 **Name:** THE PADDOCK, BELL LANE, COTTON END; Archaeological Field

17031 COTTON END MEDIEVAL SETTLEMENT (Monument 17031)

Event ID: EBB1053 **Name:** LAND SOUTH OF ROOKERY FARM, COTTON END, BEDFORDSHIRE;

Event ID	Event Name	Event Type
EBB1053	LAND SOUTH OF ROOKERY FARM, COTTON END, BEDFORDSHIRE; Archaeological Field Evaluation	Event - Intervention

External Reference: 2017/157

Dates: 17/08/2017 - 23/08/2017, between (October 2017)

Project Details:

Event/Activity Types - None recorded

Thesaurus Event Types

EVALUATION

Event/Activity References

BMUS - Bedford Museum Accession no.	BEDFM: 2017.24
HOB - NRHE (Pastscape)	1622770
OASIS - OASIS	albionar1-279709
Organisation:	Albion Archaeology

Associated Individuals - None recorded

Associated Organisations - None recorded

Location

Grid Reference

Centred TL 0839 4528 (189m by 302m)	TL04NE	Area
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Administrative Areas

Civil Parish	EASTCOTTS, BEDFORD BOROUGH, BEDFORDSHIRE
Unitary Authority	BEDFORD BOROUGH, BEDFORDSHIRE

Address - None recorded

Description and Sources

Description

A pre-application enquiry for residential development with a new primary school was made to Bedford Borough Council in relation to land at Rookery Farm, High Road, Cotton End, Bedfordshire. Kier Construction is gathering baseline information for the school site, henceforth referred to as the proposed development area (PDA).

As the PDA is located to the south of medieval settlement and ridge and furrow earthworks that have the potential to be of national significance the Bedford Borough Council's Historic Environment Team (HET) advised that a programme of archaeological evaluation work be carried out to provide the information required to support a planning application. Subsequent to the evaluation described within this report being carried out, the proposed development scheme has been re-submitted to include a 'drop-off' car park located in the field neighbouring the main school site.

Archaeological trial trenching took place within the proposed school site (the PDA) between 17th and 23rd August 2017. Archaeological features were identified in seven of the fourteen trenches excavated which provided evidence of activity on the site dating from the early medieval to post-medieval periods.

An area of medieval settlement activity was identified within the north end of the PDA (within the vicinity of Trench 1) which is a continuation of the settlement activity which survives as earthworks immediately to the north-west. As such, these remains are of particular interest in light of regional research objectives relating to the layout and development of medieval settlement. The revealed late medieval and post-medieval activity is of less significance; the features were confined to areas near the south and east boundaries of the PDA and are associated with rural land management and division away from the main settlement focus.

Groundworks associated with the proposed development of the school site are likely to have a negative impact on the sub-surface archaeological remains within the PDA; any groundworks within the northern part of the PDA would potentially have a negative impact upon the medieval settlement remains identified in this location. The

Event ID: EBB1053

Name: LAND SOUTH OF ROOKERY FARM, COTTON END, BEDFORDSHIRE;

proposed development would have a less significant impact upon the later medieval and post-medieval features revealed within the PDA, which though of interest, are considered to be of less archaeological significance.

It is intended that the proposed 'drop-off' car park adjacent to the main school site, which has not been subject to trial trenching, will effectively be a 'no-dig construction' with self-draining surfacing. However, if any ground reduction were required, it would have a negative impact upon the ridge and furrow earthworks that survive in this area. The value of ridge and furrow earthworks has been recognised nationally by Historic England (formerly English Heritage), of which relatively little survives in Bedfordshire.

Any significant impacts of the proposed development on sub-surface archaeological remains could be mitigated by measures designed to ensure the continued preservation in-situ of the identified archaeological remains or, where this is not possible, by the implementation of a further programme of archaeological works.

Sources

Unpublished document: Albion Archaeology. 2017. LAND SOUTH OF ROOKERY FARM, COTTON END, BEDFORDSHIRE; Archaeological Field Evaluation.

Associated Monuments

3296 RIDGE AND FURROW, Eastcotts parish (Monument 3296)

Event ID: EBB1361 **Name:** LAND SOUTH OF ROOKERY FARM, COTTON END; Evaluation

Event ID	Event Name	Event Type
EBB1361	LAND SOUTH OF ROOKERY FARM, COTTON END; Evaluation	Event - Intervention

External Reference: 2018/123

Dates: 07/02/2018 - 23/02/2018, between (February 2018)

Project Details:

Event/Activity Types - None recorded

Thesaurus Event Types

EVALUATION

Event/Activity References

BMUS - Bedford Museum Accession no.

BEDFM: 2017.24

OASIS - OASIS

albionar1-302320

Organisation:

Albion Archaeology

Associated Individuals

Leslie, Iain - Albion Archaeology

Associated Organisations

Location

Grid Reference

Centred TL 0834 4536 (193m by 165m)

TL04NE

Area

Administrative Areas

Civil Parish

EASTCOTTS, BEDFORD BOROUGH, BEDFORDSHIRE

Unitary Authority

BEDFORD BOROUGH, BEDFORDSHIRE

Address - None recorded

Description and Sources

Description

Planning permission (17/01602/MDC3) was granted by Bedford Borough Council for the erection of a new primary school, drop-off area and car park and associated landscaping works at land south of Rookery Farm, High Road, Cotton End, Bedfordshire.

The permitted development area (PDA) is located to the south of medieval settlement earthworks and partially overlies associated ridge and furrow earthworks; together, these heritage assets have the potential to be of national significance. Because of the high potential for the presence of archaeological remains and potential impacts on existing earthworks within the PDA, a condition (12) was attached to the planning consent for a programme of archaeological works.

The adjoining car park area was subject to an earthworks survey to record the extant medieval ridge and furrow earthworks. Prior to commencement of construction of the car park, the Bedford Borough Council Archaeological Officer (AO) advised that an archaeological trial trench evaluation was required to determine whether any below ground archaeological remains survived.

Albion Archaeology was commissioned by Willmott Dixon Construction to carry out the trial trench evaluation. This report presents the results of the investigation.

In Trench 40 a single probable pit was identified; it contained late Iron Age/early Roman pottery. The small amount and abraded nature of the pottery suggests that whilst activity of this date probably took place in the wider vicinity, the focus of domestic activity was elsewhere. This was probably outside of the PDA to the west where there are known cropmarks (BBHER 14750).

Furrows were identified in both Trenches 40 and 41, corresponding with the extant ridge and furrow earthworks present across the car park area. This suggests that the area was part of a system of open fields in the medieval

period.

The results of the trial trenching suggest that there is low potential for the survival of archaeological remains within the car park area. The revealed features are of no more than local significance and have little potential to address regional research objectives. Where remains are present, the fairly substantial depth of overburden (c.0.6m) means that the impact of the car park construction is unlikely to be significant.

The project archive will be deposited at The Higgins Art Gallery & Museum, Bedford (accession no.: BEDFM: 2017.24). Details of the project and its findings will be submitted to the OASIS database (reference no.: albionar1-302320) in accordance with the guidelines issued by Historic England and the Archaeology Data Service.

Sources

Unpublished document: Albion Archaeology. 2018. LAND SOUTH OF ROOKERY FARM, COTTON END, BEDFORDSHIRE: ARCHAEOLOGICAL FIELD EVALUATION.

Associated Monuments

3296 RIDGE AND FURROW, Eastcotts parish (Monument 3296)

Event ID: EBB1219 **Name:** ROOKERY FARM, COTTON END; Excavation

Event ID	Event Name	Event Type
EBB1219	ROOKERY FARM, COTTON END; Excavation	Event - Intervention

External Reference: 2018/164

Dates: 19/07/2018 - 19/07/2018, between (July 2018)

Project Details:

Event/Activity Types - None recorded

Thesaurus Event Types

EXCAVATION

Event/Activity References

HOB - NRHE (Pastscape)	1622776
OASIS - OASIS	albionar1-302320

Organisation: Albion Archaeology

Associated Individuals

Koziminski, Marcin - Albion Archaeology

Associated Organisations

Albion Archaeology

Location

Grid Reference

Centred TL 0844 4538 (63m by 66m)	TL04NE	Area
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Administrative Areas

Civil Parish	EASTCOTTS, BEDFORD BOROUGH, BEDFORDSHIRE
Unitary Authority	BEDFORD BOROUGH, BEDFORDSHIRE

Address - None recorded

Description and Sources

Description

Bedford Borough Council granted planning permission (17/01602/MDC3) for the erection of a new primary school, drop-off area and car park and associated landscaping works at land south of Rookery Farm, High Road, Cotton End, Bedfordshire. Albion Archaeology was commissioned to carry out archaeological mitigation works, which included two stages — open-area excavation and strip, map and sample investigation. This report details the findings of both stages of work.

The archaeological investigations uncovered remains dating to the early medieval to modern periods. The vast majority of archaeological remains date to the early medieval period. They comprise an area of enclosed settlement and wider peripheral activity. The settlement, enclosed by a ditch, included evidence for internal division, storage pits and a post-built structure. Whilst the remains were probably part of a settlement, the relatively modest finds assemblage suggests the investigated area was not a domestic focus. The post-built structure, rather than representing a domestic building, probably represents a less substantial storage structure or lean-to.

The settlement almost certainly represents the southernmost limit of the settlement identified as earthworks to the north (BBHER 15518), which includes holloways, ponds and at least one moated site. Only limited peripheral activity was present in the vicinity of the settlement, with the presence of a heavily truncated furrow suggesting the south-west part of the site was open fields during the medieval period.

The remains uncovered during the investigations are somewhat limited in their analytical potential by the fact that only a very small portion of the settlement was uncovered, with the vast majority existing to the north. Nonetheless the investigations are able to add to our understanding of the development of medieval Cotton End. The presence of residual late Saxon pottery confirms that, although no cut features of this date were present, the settlement did exist in the 9th–11th centuries, which is consistent with references in Domesday Book, recording

its existence in 1066.

The majority of dateable artefacts were of 12th–13th-century date, suggesting this part of the settlement was predominantly in use during the early medieval period, with limited evidence for settlement activity beyond this date. This part of the settlement probably went out of use in the 13th or 14th century.

Activity dating to the late medieval/early post-medieval period was also identified. This was characterised by a boundary system defined by ditches, associated with rural land management outside of any settlement focus.

A summary of the work will be published in South Midlands Archaeology and this report will be uploaded onto the OASIS website (ref. no.: albionar1-302320). With the landowner's permission the archive will be deposited with the Higgins Art Gallery and Museum under accession number BEDFM: 2017.24.

Sources

Unpublished document: Albion Archaeology. Land South of Rookery Farm, Cotton End, Bedfordshire: Archaeological Field Evaluation/Report No 18/123.. Leslie I/2018

Unpublished document: Albion Archaeology. 2018. Land South of Rookery Farm, Cotton End, Bedfordshire: Archaeological Mitigation/Report No 18/164.. Koziminski M & Leslie I/2018

Associated Monuments

17031 COTTON END MEDIEVAL SETTLEMENT (Monument 17031)

Event ID: EBB1040 **Name:** Land Adjacent to the Bell, 61 High Rd, Cotton End, Bedford

Event ID	Event Name	Event Type
EBB1040	Land Adjacent to the Bell, 61 High Rd, Cotton End, Bedford 61 High Road Cotto	Event - Intervention

External Reference: 347/CEH/2.2

Dates: 01/01/2018 - 03/02/2018, between (Jan 2018)

Project Details:

Event/Activity Types - None recorded

Thesaurus Event Types

TRIAL TRENCH

Event/Activity References

BMUS - Bedford Museum Accession no. BEDFM2017.117)

HOB - NRHE (Pastscape) 1616883

OASIS - OASIS kdkarcha1-304636

Organisation: KDK Archaeology

Associated Individuals - None recorded

Associated Organisations - None recorded

Location

Grid Reference

Centred TL 0854 4532 (56m by 56m) TL04NE Area

Administrative Areas

Civil Parish EASTCOTTS, BEDFORD BOROUGH, BEDFORDSHIRE

Address - None recorded

Description and Sources

Description

In January 2018 an archaeological evaluation was carried out by KDK Archaeology Ltd on land adjacent to The Bell, 61 High Road, Cotton End, Bedfordshire, prior to the construction of two 4-bed dwellings and associated works (planning permission 16/02903/FUL). Four trenches were excavated on the site, in which a possible post-hole and post-medieval ditch were revealed.

Sources

Unpublished document: KDK Archaeology: Archaeological Evaluation. 347/CEH/2.2

Associated Monuments - None recorded

Event ID: EBB1360 **Name:** LAND SOUTH OF ROOKERY FARM, HIGH ROAD, COTTON END;

Event ID	Event Name	Event Type
EBB1360	LAND SOUTH OF ROOKERY FARM, HIGH ROAD, COTTON END; Topographic Survey	Event - Survey

External Reference: SOU18-598

Dates: 20/06/2018 - 21/06/2018, between (June 2018)

Project Details:

Event/Activity Types - None recorded

Thesaurus Event Types

TOPOGRAPHIC SURVEY

Event/Activity References

OASIS - OASIS souterra1-321575

Organisation: Souterrain Archaeological Services Ltd

Associated Individuals - None recorded

Associated Organisations - None recorded

Location

Grid Reference

Centred TL 0834 4538 (191m by 212m)	TL04NE	Area
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Administrative Areas

Civil Parish EASTCOTTS, BEDFORD BOROUGH, BEDFORDSHIRE

Address - None recorded

Description and Sources

Description

In June 2018 an Archaeological Topographical Survey was undertaken of a part of an enclosed field to the southwest of Rookery Farm, Cotton End, Bedfordshire.

The purpose of the survey was to obtain an accurate measured record of historic earthworks derived from the medieval agrarian landscape, prior to their loss or damage in the course of development. The earthworks comprise a near-complete medieval furlong field in a reasonably good state of preservation.

The earthworks were surveyed to Ordnance Survey National Grid co-ordinates and orthometric heights using RTK Differential GPS.

The report provides an illustrative and descriptive account of the earthworks, using a combination of computer-generated graphics and conventional survey drawings (hachure plan), supported by digital photography.

The report discusses the significance of the survival of earthworks of this type within Bedfordshire, describes the characteristics of the earthworks within the Survey Area and considers the context of their survival in the post-medieval landscape.

Sources

Unpublished document: Souterrain Archaeological Services Ltd. 2018. Archaeological Topographical Survey: Land South of Rookery Farm, High Road, Cotton End, Bedfordshire.

Associated Monuments

3296 RIDGE AND FURROW, Eastcotts parish (Monument 3296)