











Truro Northern Access Road, Langarth, Cornwall

Archaeological Monitoring of Test Pits



Cornwall Archaeological Unit

Report No: 2023R013

Truro Northern Access Road, Langarth, Cornwall

Archaeological Monitoring of Test Pits

Client	Cornwall Council
Report Number	2023R013
Date	15th March 2023
Status	Final
Report author(s)	Graham Britton
Checked by	Fiona Fleming
Approved by	Andy Jones
Project number	147186
Site code	TNAR 22 TP
Data location	Truro Northern Access Road Test Pit Monitoring 147186
ADS OASIS online reference	cornwall2-514055
Planning reference	PA20/09361

The project's documentary, digital, photographic and drawn archive is maintained by Cornwall Archaeological Unit.

Cornwall Archaeological Unit

Cornwall Council Room 4G, Pydar House, Pydar Street, Truro, Cornwall, TR1 1XU Tel: (01872) 323603 Email: enquiries@cau.org.uk Web: www.cau.org.uk

Acknowledgements

This study was carried out by Cornwall Archaeological Unit, Cornwall Council.

The archaeologist on site was Graham Britton.

The Project Manager was Fiona Fleming.

The views and recommendations expressed in this report are those of Cornwall Archaeological Unit and are presented in good faith on the basis of professional judgement and on information currently available.

Freedom of Information Act

As Cornwall Council is a public authority it is subject to the terms of the Freedom of Information Act 2000, which came into effect from 1st January 2005.



Cornwall Archaeological Unit is a Registered Organisation with the Chartered Institute for Archaeologists

© Cornwall Council 2023

No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means without the prior permission of the publisher.

Contents	
1 Summary	7
2 Introduction	9
2.1 Project background	9
2.2 Location and setting	9
3 Aims and objectives	9
4 Working methods	9
5 Archaeological results	10
6 Conclusion	11
7 References	11
7.2 Publications	11
7.3 Websites	12
Appendix 1: Test Pit Data	17
Appendix 2: Table of Contexts	18
Appendix 3: Truro NAR WSI	20

List of Figures

Fig 1 Site location map.

- Fig 2 Site extent, with location of the geotechnical test pits.
- Fig 3 Northeast facing section of possible ditch feature [22102], showing the profile and size of the cut. Scale = 1m over and 0.5m vertical. CAU 2022.
- Fig 4 Cut [22102] in plan, showing the alignment of the possible ditch feature. Scale = 0.5m. CAU 2022.
- Fig 5 Test pit SA122; example of blank trench and depth of topsoil and subsoil to natural. Scale = 0.5m. CAU 2022.
- Fig 6 Test pit SA169; example of blank trench and depth of topsoil and subsoil to natural. Scale = 0.5m. CAU 2022.
- Fig 7 Cornish hedge boundary and linear ditch, Feature J, to west in Bartlett 2011, p8, geophysical survey.
- Fig 8 Cornish hedge boundary and linear ditch to west in Bartlett's (2011, p8), interpretation of geophysical survey, field 4, features G and J.
- Fig 9 Location of test pit 221A overlying geophysical survey montage and OS 1st Edition 1:2500 map, c1880. Geophysical survey montage © Arcadis 2021.

Abbreviations

CAU	Cornwall Archaeological Unit
CIfA	Chartered Institute for Archaeologists
HER	Cornwall and the Isles of Scilly Historic Environment Record
NGR	National Grid Reference
OD	Ordnance Datum – height above mean sea level at Newlyn
OS	Ordnance Survey
SDOHE	Senior Development Officer (Historic Environment)
WSI	Written Scheme of Investigation

1 Summary

Cornwall Archaeological Unit (CAU) undertook a programme of archaeological monitoring of geotechnical test pitting during December 2022 on land within and adjacent to the route of the Truro Northern Access Road scheme. This work was carried out as part of the enabling works of the outline scheme but was agreed between all parties to be monitored as best practice in order to help satisfy conditions 5 and 39 of planning application PA20/09361.

A total of 33 geological test pits were excavated, of which only one impacted upon any archaeological remains. One feature was identified which was thought to be a field boundary/enclosure ditch of unknown origin. The NE-SW aligned ditch corresponded with a linear anomaly identified in a 2011 geophysical survey, interpreted by the survey team as a possible 19th century land drain. The character of ditch, and its location with an area of later prehistoric to medieval field systems and settlement, may however suggest a much earlier origin.

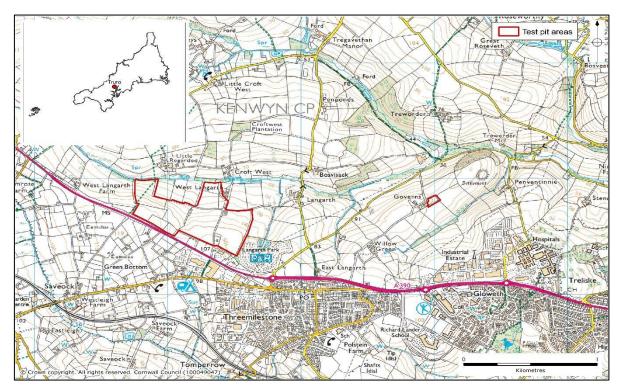


Fig 1 Site location map.

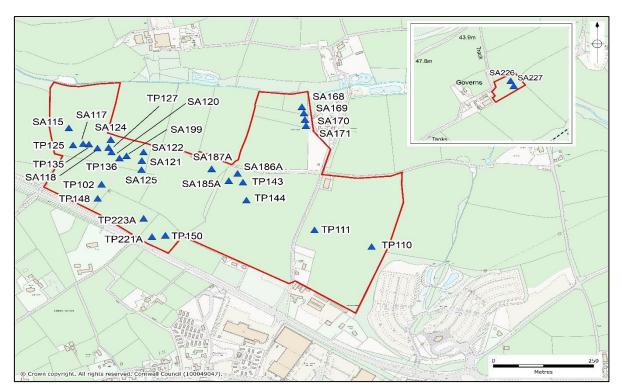


Fig 2 Site extent, with location of the geotechnical test pits.

2 Introduction

2.1 Project background

Cornwall Archaeological Unit (CAU) was commissioned by Cornwall Council to undertake a programme of archaeological monitoring during geotechnical test pitting works ahead of the construction of the Truro Northern Access Road near Langarth. This work was carried out as part of the enabling works of the outline scheme but was agreed between all parties to be monitored as best practice in order to help satisfy conditions 5 and 39 of planning application PA20/09361.

Further details of the background and the aims and methods of the wider Truro NAR project can be found in the Written Scheme of Investigation (WSI) for the Truro NAR archaeological works, (Fleming 2022), appended in full in Appendix 3.

2.2 Location and setting

The test pits were located within an area of Langarth, on the west side of Truro, Cornwall, in Kenwyn parish, centred on NGR SW 77000 45700 (Figs 1 and 2). The site of the test pitting extended between West Langarth Farm at its western end, and Treliske Hospital at its eastern end and comprised a mix of rural agricultural land and small farming settlements interspersed with more semi-urban development along the existing A390 road corridor, which includes the Threemilestone Park and Ride and an industrial estate to the north of Gloweth.

The underlying geology of the site is Devonian Period mud and sandstones of the Porthtowan Formation, with superficial alluvial deposits along some watercourses (Geology of Britain Viewer 2022). Soils of this area comprise well-drained loamy brown earths of the Denbigh 2 Association (SSEW 1983).

The predominant Historic Landscape Character (HLC) of the site is Anciently Enclosed Land (Farmland; Medieval). This is ancient agricultural heartland which has been settled and farmed since prehistory but whose field and settlement patterns were formalised during the medieval period, although often preserving older boundary lines. Farming settlements are typically documented before the 17th century AD and field patterns are morphologically distinct from the generally straight-sided fields of later enclosure. (Cornwall County Council 1996; Herring 1998). Land designated as Anciently Enclosed Land (AEL) typically has high archaeological potential.

3 Aims and objectives

The principal aim of the study was to gain a better understanding of the archaeology of the development area.

The objectives were:

- To identify the nature, character, extent and possible date of any archaeological sites and/or features within the site.
- To assess the survival, quality, condition and significance of any archaeological remains.
- To ensure the preservation by record of all archaeological remains revealed during the course of the archaeological evaluation; and
- To prepare an appropriate archaeological archive including the treatment and preservation of any artefacts.

4 Working methods

All recording work was undertaken according to the Chartered Institute for Archaeologists (CIFA) guidance (CIFA 2020a; 2020b; 2020c; 2020d) and followed the CIFA Code of

Conduct (2019). The Chartered Institute for Archaeologists is the professional body for archaeologists working in the UK.

Fieldwork: watching brief including test pit monitoring

The SDOHE advised that a continuous watching brief was required across several areas of the site during groundworks to fulfil conditions 5 and 39 of planning application PA20/09631. The test pit monitoring was part of the enabling works of the wider scheme, but it was agreed amongst all parties that those pits falling within the Truro NAR planning redline boundary would be monitored as best practice. The opening up of 33 test pits within the NAR redline boundary were therefore carried out under continuous archaeological supervision (see Fig 2).

The test pits were opened up using an excavator with a toothless grading bucket 0.6m wide, monitored by the CAU archaeologist, removing the topsoil and the subsoil until the natural substrate was reached (Figs 5 and 6). The test pits typically measured around 2.5m long by around 0.5m wide. Each pit was recorded by location using a GPS and a photographic record was made. Each pit was then stratigraphically described as to the nature of the topsoil, subsoil and natural ground with depths of each noted (Appendices 1 and 2). Only one archaeological feature was identified, this was excavated and cleaned by hand. Photographed, sketched and a written description made.

5 Archaeological results

Of the 33 test pits monitored, 32 were blank of archaeological features. Test pit TP185A cut through a recently removed field boundary. In one pit, TP221A (see below), a linear ditched feature was identified. No finds or dating material were retrieved.

Full context descriptions and test pit data are given in Appendices 1 and 2.

Context numbers were issued from a sequence relating to the individual test pit number. Cuts are given in square brackets, for instance [1], deposits in round brackets, (2).

The stratigraphy of soils across the site revealed by the groundworks indicated a typical depth of topsoil between 0.2m and 0.35m. The topsoil (22103) comprised dark greyish brown friable humic loam, with occasional inclusions of pea gravel and fragmented killas.

An underlying subsoil (22104) was not consistently noted but where present was typically between 0.1m and 0.3m deep. The composition varied across the site, comprising of mid yellowish brown to mid pinkish brown friable silty clay with moderate inclusions of fragmented killas. Mostly indicative of an old ploughsoil interface over the natural subsoil.

The natural subsoil depth below the turf across the site varied between 0.25m and 0.55m. The natural substrate (22106) typically comprised of a light yellowish brown to a light pinkish purple silty clay with frequent inclusions of fragmented killas. In some places the killas bedrock was just beneath the ploughsoil and in several places a band of clay overlay the killas bedrock.

In test pit SA124 a 0.35m depth of colluvium (22105) was noted below the topsoil. The test pit was located mid-slope on the north facing side of the stream valley. The colluvium comprised of a mid yellowish/pinkish brown friable silty clay, with occasional fragmented killas.

Test pit 221A

Test pit 221A measured $2.5m \times 0.62m \times 0.3m$ deep down onto the natural (22106). Topsoil (22103) depth was 0.3m. NO subsoil was noted. A total of two archaeological contexts were recorded of which one was a cut feature and one was a fill.

Feature [22102] Cut of ditch

(Figs 3 and 4)

Feature [22102] comprised a linear U-shaped 0.35m wide and 0.32m deep ditch with straight sloping sides and a flat base, cut into the natural subsoil (22106). There were indications that the sides of the ditch may have been slightly stepped prior to truncation

by modern plough action. It was difficult to say which side a bank, if any, might have been on. Ditch [22102] contained a single fill (22101) of mid pinkish brown friable silty clay with occasional inclusions of fragmented killas and pea gravel sized stones.

Interpretation

Ditch [22102] corresponds with a NE-SW aligned linear anomaly identified in a 2011 geophysical survey (Bartlett 2011, field 4, feature J) (Figs 7 and 8). The survey also identified a N-S aligned double ditched linear feature immediately adjacent to the east of this (G), which corresponded with a historic Cornish hedge boundary recorded on the OS 1st Edition map c1880s (Figs 7, 8 and 9). Feature J appeared either abutted or truncated by the western of the two Cornish hedge ditches, suggesting feature J was either contemporary with, or earlier than this likely mid to late 19th century field boundary.

The NW-SE aligned linear anomaly was interpreted by Bartlett (2011, 5) as being a possible land drain associated with the historic Cornish hedge ditches. It is possible, however, that ditch [22102] may alternatively be of an earlier origin. Given the context of the HLC, the existing archaeological survey and investigation in this area (e.g., Cornwall County Council 1996; Morris 2021; Rainbird 2015), the dich is clearly located within an area of later prehistoric to medieval activity, and its character, which is not similar to a land drain, would not be inconsistent with this earlier date range.

The combined geophysical results for this area of West Langarth suggest further linear anomalies on a broadly NW-SE alignment, that may indicate an area of earlier fields and enclosures, on current evidence potentially dating anywhere between the later prehistoric to medieval periods (see Fig 9).

6 Conclusion

The results from the test pit monitoring recorded a linear ditched feature corresponding with a linear geophysical anomaly, that may represent a 19th century land drain but is more likely to be a feature of earlier origin, possibly a field or enclosure boundary of later prehistoric to medieval date. The feature may be part of a much wider sphere of activity dating to these periods in this area, as indicated by a range of geophysical surveys, evaluations and archaeological monitoring as part of the proposed Langarth development.

7 References

7.2 Publications

Bartlett, A, D, H 2011. *Land at Langarth, Threemilestone, Cornwall, Report on Archaeological Geophysical Survey 2011*. North Leigh, Oxford, Bartlett-Clark Consultancy CIFA, 2019. *Code of Conduct*. Reading, CIFA

CIfA, 2020a. *Standards and Guidance for Historic Environment Desk-based Assessment*. Reading, CIfA

CIfA, 2020b. Standard and Guidance for Archaeological Field Evaluation. Reading, CIfA

CIFA, 2020c. *Standard and Guidance for an Archaeological Watching Brief*. Reading, CIFA, 2020d. *Standard and guidance for Archaeological Excavation*. Reading, CIFA

Cornwall County Council, 1996. *Cornwall Landscape Assessment 1994*. A report prepared by Landscape Design Associates and Cornwall Archaeological Unit

Fleming, F, 2022. Northern Access Road, Langarth, Truro, Written Scheme of Investigation for archaeological watching briefs and strip, map and sample excavations. Truro, Cornwall Archaeological Unit, Cornwall Council

Herring, P, C, 1998. *Cornwall's Historic Landscape: presenting a method of historic landscape character assessment*. Truro, Cornwall Archaeological Unit, Cornwall County Council and English Heritage

Morris, B, 2021. Langarth Garden Village, Langarth, Truro, Results of an Archaeological Evaluation. South Molton, Southwest Archaeology

Rainbird, P, 2015. Land at West Langarth, Threemilestone, Cornwall, Results of an archaeological trench evaluation. Bradninch, Exeter, AC Archaeology

7.3 Websites

British Geological Survey 2022. *Geology of Britain Viewer* <u>Geology of Britain viewer</u> <u>British Geological Survey (BGS)</u>

Cranfield University 2022. Soilscapes Viewer <u>Soilscapes soil types viewer - National Soil</u> <u>Resources Institute. Cranfield University (landis.org.uk)</u>

Heritage Gateway 2012. <u>Heritage Gateway - Home *</u>



Fig 3 Northeast facing section of possible ditch feature [22102], showing the profile and size of the cut. Scale = 1m over and 0.5m vertical. CAU 2022.



Fig 4 Cut [22102] *in plan, showing the alignment of the possible ditch feature. Scale* = 0.5*m. CAU 2022.*



Fig 5 Test pit SA122; example of blank trench and depth of topsoil and subsoil to natural. Scale = 0.5m. CAU 2022.



Fig 6 *Test pit SA169; example of blank trench and depth of topsoil and subsoil to natural. Scale* = 0.5*m. CAU 2022.*

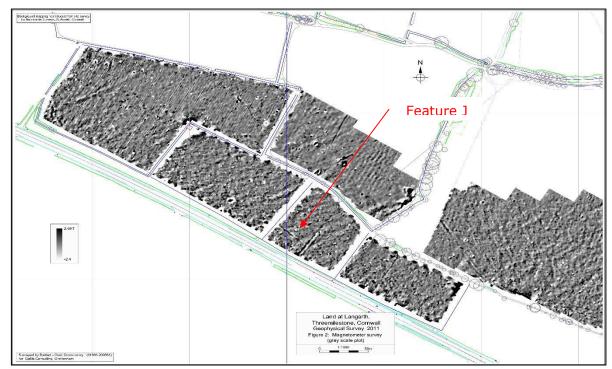


Fig 7 Cornish hedge boundary and linear ditch, Feature J, to west in Bartlett 2011, p8, geophysical survey.



Fig 8 Cornish hedge boundary and linear ditch to west in Bartlett's (2011, p8), interpretation of geophysical survey, field 4, features G and J.

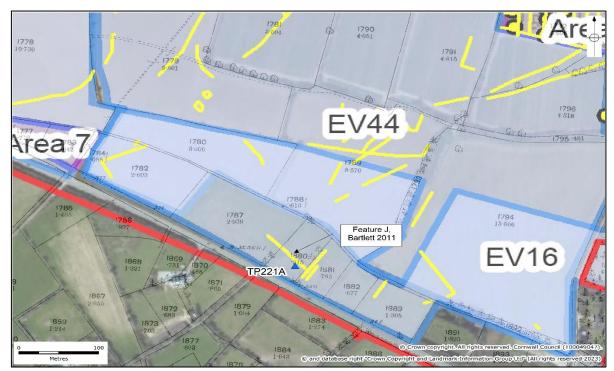


Fig 9 Location of test pit 221A overlying geophysical survey montage and OS 1st Edition 1:2500 map, c1880. Geophysical survey montage © *Arcadis 2021.*

Appendix 1: Test Pit Data

Table 1: Test Pit location and depth of deposits.

Test Pit No	NGR	GPS Points	Depth to natural in m	Depth of Topsoil in m	Depth of Subsoil / Colluvium	Date of excavation
TP101		-	0.35	0.35	-	7.12.22
TP102	176883 45703	0103-107	0.42	0.34	0.08	7.12.22
TP148	176872 45661	0016-20	0.5	0.4	0.1	7.12.22
TP150	177073 45556	0006-10	0.45	0.35	0.1	7.12.22
SA117	176852 45819	0001-5	0.3	0.3	-	8.12.22
TP135	176837 45820	0021-26	0.3	0.3	-	8.12.22
TP125	176812 45816	0027-31	0.3	stripped	0.3	8.12.22
SA118	176873 45807	0032-36	0.3	0.3	-	8.12.22
SA115	176801 45865	0037-41	0.45	0.35	0.1	9.12.22
SA120	176908 45796	0047-51	0.45	0.3	0.15	9.12.22
SA124	176906 45832	0042-46	0.67	0.32	0.35 coluv	9.12.22
TP136	176928 45779	0052-56	0.3	0.3	_	9.12.22
SA199	176945 45785	0057-61	0.35	0.35	_	9.12.22
TP127	176900 45809	0083-87	0.45	0.3	0.15	12.12.22
SA121	176984 45771	0067-71	0.4	0.3	0.1	12.12.22
SA122	176988 45796	0072-76	0.35	0.3	0.05	12.12.22
SA125	176983 45745	0062-66	0.45	0.35	0.1	12.12.22
221A	177009 45552	0098-102	0.3	0.3	-	12.12.22
223A	176988 45605	0011-15	0.3	0.3	-	12.12.22
TP144	177245 45658	0143-147	0.25	0.25	-	13.12.22
TP143	177236 45709	0138-142	0.4	0.3	0.1	13.12.22
SA186A	177223 45734	0133-137	0.35	0.35	_	13.12.22
SA185A	177201 45714	0108-112	0.35	0.35	-	13.12.22
SA187A	177158 45748	0148-152	0.5	0.3	0.2	14.12.22
SA168	177384 45926	0168-172	0.55	0.3	0.25	14.12.22
SA169	177389 45908	0163-67	0.5	0.3	0.2	14.12.22
SA170	177391 45890	0158-162	0.4	0.3	0.1	14.12.22
SA171	177394 45872	0153-157	0.35	0.35	_	14.12.22
TP111	177415 45572	0173-177	0.4	0.3	0.1	15.12.22
TP110	177558 45524	0182-186	0.35	0.35	-	15.12.22
SA226	179002 45829	0192-196	0.35	0.35	-	15.12.22
SA227	179011 45812	0187-191	0.35	0.35	-	15.12.22

Appendix 2: Table of Contexts

Table 2: Context descriptions.*The cut feature is in bold

Context Number	Type Cut/ Deposit	Description	Interpretation
22101	D	A mid pinkish brown friable silty clay with occasional inclusions of fragmented Killas and pea gravel sized stones.	Fill of a field boundary/enclosure ditch.
22102	C	A cut feature linear in plan, with flat base and evidence of sloping sides stepped to a near vertical sided slot 0.32m deep from the step and 0.35m wide. The overall depth was 0.6m from the top of the turf. Test pit 221A was 2.5m x 0.62m x 0.3m	The style of the slot-like cut of this feature suggests a ditch of later prehistoric to medieval date. There are faint signs of stepped sloping sides before removal by the modern plough. It was difficult to say which side a bank, if any, might have been on.
22103	D	A dark greyish brown friable humic loam, with occasional inclusions of pea gravel and fragmented killas. Depth between 0.2m and 0.35m.	Topsoil
22104	D	Variable mid yellowish brown to mid pinkish brown friable silty clay with moderate inclusions of fragmented killas. Mostly indicative of an old ploughsoil interface over the natural subsoil. Not consistently noted. Depth between 0.1m and 0.3m deep.	Subsoil
22105	D	A mid yellowish/pinkish brown friable silty clay, with occasional fragmented killas. Depth 0.35m. Only encountered in test pit SA124.	Colluvium

22106 D	A light yellowish brown to a light pinkish purple silty clay with frequent inclusions of fragmented killas. In some places the killas bedrock was just beneath the ploughsoil and in several places a band of clay overlay the killas bedrock. Encountered at between 0.25m and 0.55m depth.	Natural
---------	---	---------

Appendix 3: Truro NAR WSI

Northern Access Road, Langarth, Truro

Client: Cormac Solutions Ltd – Engineering Design Consultancy Planning ref (if appropriate): PA20/09631

Project background

This document sets out a Written Scheme of Investigation (WSI) by Cornwall Archaeological Unit (CAU) for a programme of archaeological investigation along the intended route of the new Northern Access Road (NAR) at Langarth, Truro, centred on SW 77000 45700 (Figs 1 and 2).

The work has been requested by Cornwall Council's Senior Development Officer Historic Environment (SDOHE) to inform hybrid outline planning application PA20/09631. Section A of that application comprises a full planning application for construction of the Northern Access Road and associated access junction arrangements onto the A390, new junctions to the quiet lanes and associated infrastructure and earthworks and retaining boundary features. The programme of archaeological work is required to fulfil condition 5 of the planning consent granted to Section A of planning application PA20/09631 by Cornwall Council. The planning condition states that:

A) Prior to the commencement of Construction Works within any stage as agreed under condition 4 (save for Enabling Works) a Written Scheme of Investigation ("WSI"), shall have been submitted to and approved by the Local Planning Authority in writing. The WSI shall include:

1. An assessment of significance including research questions;

2. The programme and methodology of site investigation and recording;

3. The programme for post investigation assessment;

4. Provision for analysis of the site investigation and recording;

5. Provision for publication and dissemination of the analysis and records of the site investigation;

6. Provision for archive deposition of the analysis and records of the site investigation;

7. Nomination of a competent person or persons/organisation to undertake the works set out within the WSI.

B) No development shall take place other than in accordance with the WSI approved under Part (A).

C) Any stage as agreed under condition 4 shall not be used by the public until the site investigation and recording and post investigation assessment for that stage has been completed in accordance with the programmes set out in the WSI approved under Part (A) and the analysis, publication and dissemination of results and archive deposition has also been secured in accordance with details set out in the WSI approved under Part (A).

Reason: To ensure that provision is made to record finds of archaeological interest in accordance with the aims and intentions of Policy 24 of the Cornwall Local Plan Strategic Policies 2010-2030 and paragraph 205 of the National Planning Policy Framework 2021 and. A pre-commencement condition is necessary in this instance due to the need to ensure that a programme and methodology of site investigation and recording of archaeological features is undertaken before physical works commence on site.

Informative: The archaeological recording condition for any stage as agreed under condition 4 will normally only be discharged when all elements of the WSI, including onsite works, analysis, reporting, publication (where applicable) and archive work has been completed.

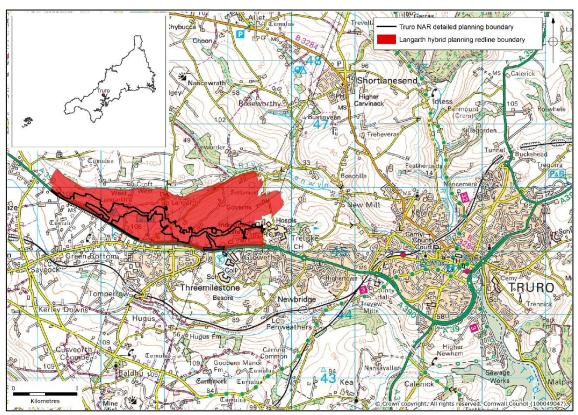


Figure 1: Site location map.

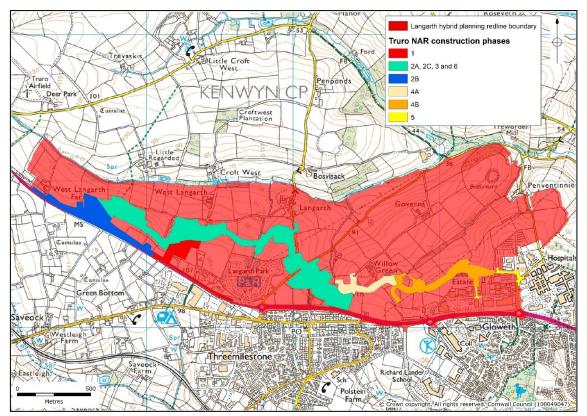


Figure 2: Site extent, showing the Langarth hybrid outline planning redline area and the Truro NAR construction phases.

This WSI refers to a programme of archaeological work agreed with the SDOHE, formed on the basis of existing available geophysical surveys, desk-based assessments and evaluations of the wider planning application area (see Site History, below), indicated by the redline boundary in Figures 1 and 2. This document replaces an earlier version of 20/06/2022, containing revisions to the SMS and watching brief areas within the eastern section of the Truro NAR, following a further programme of archaeological evaluation by South West Archaeology (Morris 2022).

The programme of works for the NAR details six construction phases (see Fig 2):

- Area 1 (interim link road) previously constructed under a separate planning condition, completion to commence 07/09/2022
- Area 2A; 2C; 3 and 6 to commence 07/09/2022
- Area 2B to commence 07/09/2022
- Area 4A (Maiden Green) to commence 01/09/2023*
- Area 4B (Willow Green) to commence 01/09/2023*
- Area 5 to commence 03/01/2023

 \ast The dates for Areas 4A and 4B could be brought forward, subject to the agreement of the landowner.

This WSI comprises the overarching methodology for the archaeological works associated with each construction phase, presently a combination of archaeological watching brief and SMS excavation, which includes the recording of historic hedge boundary sections, as well as the monitoring of the removal and eventual repositioning of a Listed milestone (NHLE 1136637).

Site history

A desk-based assessment of the proposed development at Langarth has been produced by Arcadis (Latham 2020a) to assess the heritage and archaeological impacts as part of a broader EIA. The document includes the results of walkover surveys and reference to prior geophysical surveys carried out across the site (Bartlett 2011; GSB Prospection, 2011; Richardson 2015). A previous desk-based assessment was undertaken by CgMs in 2018 for land at East Langarth (Petric 2018). A further geophysical survey of a parcel of land within the proposed Langarth development to the north of Threemilestone was carried out by Magnitude Surveys in 2021 (Salmon 2021).

Evaluation trenching and a watching brief were carried out on the Threemilestone Park and Ride site in 2007 by Cornwall Archaeological Unit (Gossip 2007) and more recent programmes of evaluation trenching have been carried out across the breadth of the Langarth development area (Morris 2021; 2022; Passmore 2012; Rainbird 2015). The results of these various assessments, surveys and evaluations have informed the rest of this section.

Site location and setting

The site is located on the west side of Truro, Cornwall, in Kenwyn parish, centred on NGR SW 77000 45700. It extends between West Langarth Farm at its western end, and Treliske Hospital at its eastern end and comprises a mix of rural agricultural land and small farming settlements interspersed with more semi-urban development along the existing A390 road corridor, which includes the Threemilestone Park and Ride and an industrial estate to the north of Gloweth.

The underlying geology of the site is Devonian Period mud and sandstones of the Porthtowan Formation, with superficial alluvial deposits along some watercourses (Geology of Britain Viewer 2022). Soils of this area comprise well-drained loamy brown earths of the Denbigh 2 Association (SSEW 1983).

The predominant Historic Landscape Character (HLC) of the site is Anciently Enclosed Land (Farmland; Medieval). This is ancient agricultural heartland which has been settled and farmed since prehistory but whose field and settlement patterns were formalised during the medieval period, although often preserving older boundary lines. Farming settlements are typically documented before the 17th century AD (source, Institute of Cornish Studies place-names index) and field patterns are morphologically distinct from

the generally straight-sided fields of later enclosure. (Cornwall County Council 1996; Herring 1998). Land designated as Anciently Enclosed Land (AEL) typically has high archaeological potential.

Along sections of the A390 road corridor on the south side of the site and including pockets of land within the eastern portion of the site, the HLC is that of Recently Enclosed Land (Farmland; post-medieval). This is land enclosed in the 17th, 18th and 19th centuries, usually from land that was previously Upland Rough Ground and often medieval commons (Herring 1998).

Known archaeological sites

The area containing the site is rich in prehistoric archaeology, which includes numerous Bronze Age round barrows and barrow cemeteries, in particular those found towards the eastern end of the site at Gloweth (MCO56935; MCO56936; MCO2459; MCO2626) and Treliske Hospital (MCO2459; MCO2626; MCO3676-MCO3683; MCO56935-MCO56936). Structures associated with a Late Bronze Age settlement were recorded during excavations at Mount Pleasant in 2005, now the Richard Lander School site (Gossip 2021).

Iron Age settlement activity is prevalent across the site and its wider environs, with enclosed 'round' settlements close to the north side of the site at Langarth (MCO62159) and Governs (MCO25183). A boundary at West Langarth Farm (MCO31880), present on 18th century historic maps, is suggested as Prehistoric in origin. Within the wider vicinity is an extensive unenclosed Iron Age roundhouse settlement and associated field system (MCO55328) at Mount Pleasant (Gossip 2021), to the south of the site; a potential enclosed 'round' settlement is located closely adjacent to the south of this settlement at Higher Besore (MCO55327). Two particularly prominent and relatively well-preserved Iron Age rounds are located at Bosvisak (MCO7654) and Penventinnie (MCO8352) to the north of the site.

The medieval landscape of the site and surrounding area comprises the remains of numerous medieval field systems. Boundaries still visible as earthworks and/or cropmarks were mapped during the Cornwall and Isles of Scilly NMP project. A probable medieval boundary bank (MCO31896) visible on aerial photographs is recorded at Willow Green. Settlements of medieval or earlier origin are documented at Langarth (MCO) and Penventinnie (MCO16258), to the north of the site, along with the Domesday settlement and manor of Bosvisack (MCO13545).

Sites of post-medieval date within the site include many of rural agricultural character; field boundaries, enclosures, trackways and settlements, including those at Willow Green (MCO62150), Venton Green (MCO62149) and Little Langarth (MCO62156), now West Langarth Farm. Many of the small, scattered smallholdings either side of the A390 at Langarth, Polstraze and Threemilestone probably originated from post-medieval miner's smallholdings and are characteristically self-contained within small boxy historic fields. The site of a possible silver mine is documented on the basis of place-name evidence at Langarth (MCO62165), and a plough-levelled earthwork (MCO55068) mapped from aerial photographs during the Cornwall and Isles of Scilly NMP project may be spoil associated with post-medieval mining activity.

A Listed 18th century milestone (MCO48551) survives on the north side of the A390 SE of West Langarth Farm (NGR SW 7661 4574). Historic map evidence indicates that the milestone was originally located on the southern side of the Turnpike Road and faced east towards Truro. During the construction of the A390 the milestone was probably moved temporarily from its original position and replaced once the road was completed, still in its original position but now on the northern side of the road and turned to face a new direction (Latham 2020b). The intention is to once more remove the milestone prior to the construction of a new road junction between the A390 and the new Northern Access Road and replace it again into its current co-ordinates, albeit at a slightly higher level than at present. It will once more stand on the south side of the road, still marking 4 miles to Truro, as it does now. The removal and relocation of this milestone benefits from Listed Building Consent under application reference PA20/09610.

During the Second World War this stretch of the A390 west of Truro was the location for a string of temporary military camps (e.g., MCO55061; MCO31894; MCO58048; MCO31885) constructed during the build up to the D-Day landings. Plotted from 1940s RAF aerial photographs during the Cornwall and Isles of Scilly NMP project, there has been little material evidence found for these camps to date.

Potential archaeological sites

The results of the geophysical surveys and evaluations undertaken across the site and within the wider redline planning boundary have indicated a range of potential archaeological sites and landscapes, of prehistoric up to post-medieval in date.

Evaluation prior to construction of the Threemilestone Park and Ride site (Gossip 2007) failed to identify a number of geophysical anomalies arising from previous geophysical survey, save for a relict hedge boundary removed prior to 1840. A follow up watching brief of the area identified a further relict hedge boundary, also removed prior to 1840. The results of the archaeological mitigation were concluded to suggest that many of the geophysical anomalies were the result of local geological variation rather than archaeological in nature. The park-and-ride area may have been historically windswept downland unsuitable for domestic settlement, with enclosure of the area probably occurring relatively recently in the 18th and 19th centuries.

Evaluation by AC Archaeology (Passmore 2012) in the eastern portion of the site at Maiden Green and Willow Green (EV6 in Latham 2020a) revealed two possible Bronze Age ring ditches, possible prehistoric or Romano-British field systems/boundaries, and possible prehistoric or Romano-British settlement enclosures with internal features. A large number of further anomalies were thought to be related to historic field systems and associated agricultural practices. Particularly relevant to the NAR site was Area 6, trenches 8, 9 and 10, which revealed features of possible Bronze Age date, as well as features associated with a possible Iron Age/Romano-British field system. Ditches of probable post-medieval date were also recorded in this area and some of the wider rectilinear anomalies revealed on the geophysical survey of this area (GSB Prospection, 2011) represent removed historic hedge boundaries of medieval or post-medieval date.

Evaluation of the central to western sections of the site by Southwest Archaeology (Morris 2021) revealed numerous field ditches of probable post-medieval date, the majority of which were significantly truncated. Several of the linear features evaluated by Southwest Archaeology were remnants of later post-medieval Cornish hedge boundaries depicted on historic mapping from at least the late 18th century and still in use during the 19th century. Some further ditches and boundaries indicated features forming part of the same field system but removed prior to the 18th century (Morris 2021).

One particular ditched feature identified by Morris (2021) in Trench 9, positioned towards the western end of the site over a large curvilinear boundary identified on the Stratascan (Richardson 2015) geophysical survey, was identified as potentially prehistoric in origin (see Fig 3, SMS Area A). Earlier evaluation in this area by Rainbird (2015) did not corroborate or disprove this and the date and origin of the large curvilinear boundary at this western end of the site remains unproven.

A further trench evaluated by Morris (2021), trench 26 in the vicinity of Venton Green, contained 11 features of medieval to post-medieval date. Subsequent evaluation (Morris 2022, trench 27) to the east of Venton Green recorded further features of potentially medieval to post-medieval date, which, alongside the findings of trench 26, may be associated with a medieval to post-medieval farmstead or settlement at this location.

Based on the findings of the various geophysical surveys and evaluations, there appears to be the potential for features of medieval and post-medieval date to be identified across the breadth of the site, predominantly settlement and agricultural in origin. One particular focus of medieval to post-medieval settlement within the site, at Venton Green, has the potential to shed light on the origins and character of settlement there, possibly associated with a former miner's smallholding.

Towards the eastern and western extents of the site there is the potential for foci of prehistoric activity, particularly at the eastern end where a series of Bronze Age and

potentially Iron Age features were identified by Passmore (2012). More targeted investigation of these areas has the potential to shed further light on the origin, date and function of these earlier features, and any identifiable relationships.

There is a strong possibility for some of the geophysical anomalies identified by the various geophysical surveys to be geological rather than archaeological in nature, and there does appear to be significant degradation and truncation of many of the features found through archaeological evaluation, probably the result of repeated plough action in many cases, which may have an impact on the general survival and condition of the buried archaeological resource within the site. Nonetheless there is also high potential for buried remains across all periods from the later prehistoric to the present to survive within the site extent and appropriate recording of these could significantly contribute to the understanding of the historic landscape in this area.

Health and Safety and Environmental Policies

CAU Health and Safety Policies

All works will be carried out in accordance with the Health and Safety Act 1974, the Management of Health and Safety Regulations 1992 and other relevant health and safety legislation, regulations and codes of practice, including Principle 5 of CIfA's Code of Conduct (CIfA 2019). CAU has access to Cornwall Council's online Health and Safety policies and guidance and follows Cornwall Council's *Statement of Safety Policy* (Cornwall Council 2021 - Policy Number PLY001). CAU also has its own rigorous policy for managing health and safety at work (CAU 2019).

All CAU fieldwork staff hold valid CSCS cards and relevant risk assessments are carried out before each fieldwork task. CAU will produce a risk assessment prior to archaeological work commencing. This will include the most up to date assessment of working with Covid. CAU will discuss specific RAMS and RAs produced for the site by the client and will adhere to these whilst on site.

Specific Health and Safety Measures

- The CAU project team will undertake and adhere to any site induction and safety courses provided by the client or on-site agent.
- Any specific known hazards relating to the site will be made known to the CAU project team by the client, along with the relevant guidance and instruction on carrying out work in vicinity of these.
- Appropriate health and safety requirements for general working on site by the CAU project team will be observed. In particular these may relate to:
 - Working near plant and machinery.
 - Working near or within deep excavations.
 - Working with hand-held and/or power tools.
 - Identifying and mitigating environmental hazards (e.g., dust, contaminants).

Environmental Policies

CAU recognises its professional and intellectual responsibilities towards the protection of archaeological heritage and the wider environment generally. All CAU staff undertake carbon literacy training. Archaeological activities have the potential to affect the environment and CAU is resolved to adopting working policies that accord with the laws, regulations and other policy mechanisms concerning environmental issues and sustainability. In particular CAU aligns with CIfA's *Code of Conduct* (2019, Principles 1 and 2) and *CIfA's Environmental Protection Policy Statement* (CIfA 2018, Policy 4). As part of Cornwall Council, CAU aligns with its environmental aspirations in working towards a carbon neutral Cornwall, as set out in the Carbon Neutral Cornwall web page <u>Carbon Neutral Cornwall - Cornwall Council Intranet (cornwallonline.net)</u>.

The CAU project team will make themselves aware of, and will adhere to, the environmental policies of the client whilst on site and, if and where necessary, will endeavour to minimise environmental impacts arising from archaeological fieldwork.

Project extent

The initial programme of archaeological mitigation for the site was set out to include a programme of archaeological watching briefs, alongside three areas identified for targeted Strip, Map and Sample (SMS) excavation. This document details a revision to that initial programme, reducing the areas for archaeological watching brief and dividing the areas for SMS excavation into smaller sections, to comprise six SMS areas overall (see Figs 3-5). This WSI relates to the entire scheme for the Northern Access Road (NAR) and updates a previous version to reflect changes to the extents of the watching brief and SMS areas.

Included in the watching briefs will be the photographic recording of all historic hedge boundaries, up to an including those of Early 20th Century date, that are planned for removal, with more detailed survey, drawn records, and possibly sampling, where these are deemed appropriate for more significant features. The watching briefs and SMS excavations will align with the programme of construction Planning Stage Areas identified for the overall scheme of works, as illustrated in Figure 2. The proposed archaeological mitigation is illustrated in relation to the Planning Stage Areas in Figures 3 to 5; Stages 1 and 5 will not require any archaeological mitigation and are excluded from this WSI.

Additionally, there will be appropriate archaeological mitigation (see below, p12) undertaken for a Listed milestone (NHLE 1136637) positioned at NGR SW 76611 45747, and a historic stone stile positioned at SW 76778 45787, which will be removed; discussions on the possible re-siting of the stile remain ongoing at this stage.

Listed Building Consent has been sought by the client for the removal and replacement of the Listed milestone and as noted on p6, has been granted under application reference PA20/09610. Archaeological mitigation will follow the methodology for relocating milestones and boundstones produced by Cornwall Council (Appendix 1).

Archaeological mitigation for the stile will comprise a Level 2 Historic Building Record (HBR) to be made prior to the stile being removed. Should the stile be re-sited, discussion will be had between CAU, the Client and the SDOHE to agree a methodology for archaeological supervision during the works, should this be requested by the SDOHE.

All manner of archaeological mitigation within the NAR redline boundary will be kept under dynamic review and discussion with the client and SDOHE to allow for the most optimal approach and to keep archaeological intervention to the amount required to satisfy the Planning Condition. The current scope of works has been defined against the area of the road corridor itself and all associated permanent infrastructure. Additional to these are three areas of potential archaeological sensitivity currently identified as areas for topsoil deposition and storage (Figs 3-5). It has been agreed by the client that the options for these areas will be kept open. If the approach is for no removal of turf and topsoil in these areas, there will be no archaeological mitigation required. Should this approach need to change, and topsoil removal be required, archaeological watching briefs will also be undertaken in these areas.

Aims and objectives

The principal aim of the study is to gain a better understanding of the archaeology of the development area.

The objectives are to:

- To identify the nature, character, extent and possible date of any archaeological sites and/or features within the site;
- To assess the survival, quality, condition and significance of any archaeological remains;
- To ensure the preservation by record of all archaeological remains revealed during the course of the archaeological evaluation; and
- To prepare an appropriate archaeological archive including the treatment and preservation of any artefacts.

The results of the fieldwork may be expected to feed into the following research objectives set out in the current South West Archaeological Research Framework (Grove and Croft 2012):

- 21 Improve our understanding of the environmental aspects of farming.
 - 21a: Development of field systems and intensification of agriculture in the Bronze and Iron Ages.
 - 21b: Medieval and Post-Medieval agriculture.
- 29 Improve understanding on non-villa Roman rural settlement.
- 45 Broaden understanding of Post-Medieval to Modern technology and production.
- 49a Improve knowledge of Neolithic and Early Bronze Age social life.

64 - Improve understanding of the less-researched areas of Post-Medieval to Modern defence and warfare.

Working methods

All recording work will be undertaken according to the Chartered Institute for Archaeologists (CIfA) guidance (CIfA 2020a; 2020b; 2020c; 2020d). Staff will follow the CIfA *Code of Conduct* (2019). The Chartered Institute for Archaeologists is the professional body for archaeologists working in the UK.

Pre-fieldwork

In advance of the fieldwork CAU, will discuss and agree with the client:

- Working methods and programme.
- Health and Safety issues and requirements.
- Transfer of Title for artefacts.
- Obtaining an accession number from the appropriate archive repository.

Fieldwork: strip, map and sample

The SDOHE has advised that strip map and sample (SMS) excavation is now required for six individual areas within the site prior to groundworks to fulfil the planning condition (see below and Figs 3-5). This work will be guided by CIfA's guidance on undertaking archaeological excavation (CIfA 2020d).

Areas to be excavated will be laid out to British National Grid coordinates using a Leica GPS device. The client will be approached for plans of buried services within the individual areas, where these are known and available. The client will be asked to arrange for the areas to be stripped to be scanned by a suitably trained operative with a CAT scanner to identify buried services prior to stripping, where this has not already been carried out. Adjustment of stripped areas that may subsequently be necessary will be confirmed with the SDOHE prior to excavation.

There will be no access onto the SMS area for through traffic or other plant (aside from the excavating machine) whilst archaeological work is taking place, or until they have been signed off by the CAU archaeologist. The SMS areas will be laid out to allow for traffic access routes, in discussion with the client and to accord with their work programme.

Spoil from the areas of SMS excavation will be stored at least 1.0 m from the edge of the area. The areas of SMS excavation will be fenced with plastic Netlon fencing hung on road pins at appropriate spacing, or as advised by a main site contractor if present.

Soil stripping of the excavated areas will be carried out under the control of the archaeologist(s) on site using a machine fitted with a toothless grading bucket. The soil will be stripped cleanly to a level dictated by the archaeologist, at which archaeological features or layers are revealed or the natural substrate, as appropriate. Upon completion of the controlled stripping of the designated archaeological area, CAU, in consultation with the SDOHE, will confirm the extent of excavation/sampling that is required. Typically, this will consist of the following sample levels:

• All small discrete features (postholes, pits, etc <1m in diameter) will be fully excavated (excepting large numbers of very small features such as stakeholes

which will be subject to a lower sampling frequency).

- Larger discrete features (pits >1m) will be half-sectioned.
- Linear/curvilinear features will be sampled at 10-20%, depending on length.
- Spoil will be examined for artefacts visually.
- The opportunity to use a metal detector on site to check features prior to excavation and to monitor spoil heaps will be explored with the client. If agreed on, a suitably experienced metal detectorist will be brought in to carry out this task.

If complex and/or significant archaeological deposits are encountered then the archaeological requirements will be reviewed by the client, the SDOHE, and CAU. In the event that remains cannot be preserved *in situ* then full-scale excavation may subsequently be required. A contingency should be allowed to record any significant archaeological remains uncovered during the groundworks. The significance of the remains will be agreed between the client, the SDOHE, and CAU.

If the scale of significant archaeological deposits encountered within any of the SMS area is considered to be very low, this will be reviewed by the client, the SDOHE and CAU to discuss the option to downgrade the archaeological mitigation to that of a continual watching brief. Generally, work progress will be kept under continual review to permit a flexible and proportionate approach to the level of any archaeology encountered.

The areas for SMS excavation have been identified on the basis of the known and potential buried archaeological remains within each area, relevant to the areas of the NAR intended for permanent infrastructure.

Specifically, these include the following:

Area A – A 1.45ha area located towards the western end of the development and straddling construction stage areas 2A and 2B, centred on SW 76756 45824 (Fig 3). The SMS area comprises parts of two historic fields and is positioned to target the large curvilinear geophysical anomaly and potentially associated features in the near vicinity, identified by geophysical survey (Richardson 2015). A 0.05ha extension to the north side of the easternmost field was added to this, aimed at picking up a further curvilinear anomaly, thought likely to be an extension of the feature in the field to the west (see Fig 3).

Area B – A 0.15ha area located at the eastern end of construction stage areas 2A, 2C, 3 and 6 to the south of Venton Green and centred on SW 78307 45221 (Fig 4). The SMS area is positioned to target a concentration of linear anomalies identified by geophysical survey (Richardson 2015), potentially associated with an area of former medieval to post-medieval settlement and field enclosures.

Area B extension – A 1.14ha area located at the western end of construction stage area 4A, forming an extension to SMS Area B, and centred on SW 78355 45260 (Fig 4). The SMS area is positioned to target a series of linear anomalies identified by geophysical survey (GSB Prospection 2011), potentially associated with an area of former medieval to post-medieval settlement and field enclosures. Evaluation by South West Archaeology (Morris 2022, trench 27) revealed features dated by pottery to the late medieval period, potentially associated with the former settlement of Venton Green.

Area C – A 2.9ha area located southeast of Willow Green, at the eastern end of construction stage area 4A, centred on SW 78600 45310 (Fig 5). The SMS area is positioned to target a series of linear anomalies identified by geophysical survey (GSB Prospection 2011), suggested through evaluation (Morris 2022; Passmore 2012) to be features potentially associated with a late or post-medieval farmstead at Willow Green.

Area D – A 2.5ha area located to the southeast of Willow Green centred on SW 78845 45296 (Fig 5). The SMS area is positioned to target a series of linear anomalies identified by geophysical survey (GSB Prospection 2011). This area has not so far seen any evaluation and the features are of unknown date or origin. They may be associated with further features identified to the west (see SMS Area E) that were evaluated by South West Archaeology (Morris 2022). These features could potentially be associated with field boundaries of probable post-medieval date, but also earlier features considered likely to

prehistoric in origin, although there remains a lack or precise dating for these. This area would therefore merit further investigation.

Area E - A 2.5ha area located to the northwest of Treliske Retail Park, centred on SW 79023 45324 (Fig 5). The SMS area is positioned to target a series of linear anomalies identified by geophysical survey (GSB Prospection 2011). Evaluation by South West Archaeology (Morris 2022, trenches 34 and 35) revealed part of a longer feature, possibly a field boundary of potentially prehistoric origin, although no dating material was recovered.

Area F – A 4ha area located to the north of Treliske Retail Park, centred on SW 79244 45387 (Fig 5). The SMS area is positioned to target a series of linear anomalies identified by geophysical survey (GSB Prospection 2011). Evaluation in this area by South West Archaeology (Morris 2022, trenches 37 to 39) and AC Archaeology (Passmore 2012) revealed linear ditches thought likely to form part of a prehistoric field system, which may extend to include features in SMS Area E. An area of potential Bronze Age settlement activity has also been identified just beyond the southwest side of Area F (Passmore 2012, Area 6).

For Areas C through to F, it may be required to open up a 10m wide strip in the first instance, so that an access corridor through these areas can be created. The remainder will be opened up subsequently.

Fieldwork: watching brief

In addition to the areas of SMS (see above), the SDOHE has advised that a continuous watching brief is required across several areas of the site during groundworks to fulfil the planning condition on the remaining parts of the scheme. The WB areas are identified below and incorporate comments from the SDOHE. This work will be guided by CIfA's guidance on undertaking watching briefs (CIfA 2020c).

All groundworks which might potentially contain archaeological features will be undertaken under continuous archaeological supervision. This will include any removal of soil across the site, the excavation of footing or service trenches, or other activities which would result in the lowering of the present site levels. All soil stripping should be undertaken by a machine equipped with a toothless grading bucket where possible. Should archaeological features be revealed, mechanical excavation will be halted, and the exposed features cleaned up by hand to determine their significance prior to either their recording or further mechanical excavation. The developer will allow reasonable time for the excavation and recording of any features thus revealed. Where a temporary stop of work is required the site archaeologist will request this via the developer and the SDOHE.

The watching brief areas comprise:

Area 1: two areas, WB1A and WB1B at the western end of the scheme, focussed on the area around SMS Area A, where a series of linear anomalies identified by geophysical survey may form part of the wider context for the large curvilinear enclosure boundary confirmed in T9 of the South West Archaeology 2021 evaluation (Morris 2021) (Fig 3).

Area 2: Targeted to focus on the broader area surrounding T13 of the South West Archaeology 2021 evaluation (Morris 2021) (Fig 3). This targeted a blank area in the geophysical surveys and identified a group of shallow ditches of unknown origin that would benefit from further investigation.

Area 3: Targeted to test whether Site 780 as identified by geophysical survey (Salmon 2021) extends here (Fig 4). Site 780 (102c in Fraser and Latham 2021; Appendix 12.1, addendum to Geophysical survey 2020-2021) comprises a possible small enclosure immediately to the N of WB Area 3, possibly associated with a nearby spring to the south.

Area 4: Targeted to test a series of linear anomalies identified by geophysical survey (GSB Prospection 2011). No evaluation has been undertaken in this field to date.

Area 5: Targeted to test a blank area on the geophysical survey but where an undated pit was identified through evaluation (Morris 2021, trench 22) (Fig 4).

As mentioned above, three additional areas of potential archaeological sensitivity have been identified that may become subject to an archaeological watching brief should intrusive groundworks be required to create topsoil storage areas. In this case, the work would be undertaken following discussion with the client and the SDOHE (see Figs 3 and 4 for identified areas). The three areas are:

- Topsoil Area 1: Placed on the north and west sides of SMS Area A. Linear anomalies identified by geophysical survey in these areas may be associated with a potentially prehistoric landscape at the western end of the NAR, and with the curvilinear enclosure boundary in particular.
- Topsoil Area 2: Site 782 as identified in the Cultural Heritage Statement (Fraser and Latham 2021; Appendix 12.1, addendum to Geophysical survey 2020 - 2021) may extend here. This is a possible trackway based on the geophysical results 102a and 105a.
- Topsoil Area 3: Adjacent to the south and west of SMA Area B. A broader area of linear anomalies identified by geophysical survey in this area suggest a wider area of potentially medieval or post medieval settlement in this area, perhaps associated with the lost settlement of Venton Green.

Historic hedge Boundary recording

All historic hedge boundaries up to and including those of Early 20th century date that have been identified for removal will be mitigated through an intermittent archaeological watching brief. The hedge boundary sections to be removed will be taken down by machine to expose clean end sections ready for an archaeologist to record. The exposed hedge sections will be kept free of loose materials so that the archaeologist has clear access. Digital photographs will be taken to record the boundary in section and to capture internal features and construction detail. Should a boundary contain features of particular significance (e.g., atypical construction methods, buried palaeosoils) a measured and drawn survey of a boundary section may be made and samples may be taken. The client and CAU will liaise over the programme of boundary removal to agree the most expedient use of time on site.

Fieldwork: removal and replacement of the Listed milestone

The SDOHE has advised that the removal of the Listed milestone (NHLE 1136637) is properly recorded prior to its temporary removal and removed and replaced under continuous archaeological supervision.

Prior to removal the location of the milestone will be recorded using a hand-held GPS and the orientation of the milestone recorded using a compass. The height of the milestone above ground level will be measured and digital photographs taken to record its setting.

For removal the stone will be carefully dug around by hand to loosen before lifting. Using webbing strops and a machine, the stone will be carefully lifted under archaeological supervision and placed in a suitable container for transport and storage.

For replacement of the milestone, its location will be confirmed using a hand-held GPS. A hole will be dug for the setting of the stone, as close as possible to the stone's measurements across at ground level and to the appropriate depth to restore the stone to its rightful orientation (facing east) and depth. A final set of digital photographs will be taken of the milestone in its restored location. The methodology adopted for these tasks will follow the guidelines for relocating milestones and boundstones produced by Cornwall Council (see Appendix 1).

Fieldwork: removal of the historic stone stile

The SDOHE has advised that the prior to the removal of the historic stone stile, a Level 2 Historic Building Record should be made, which will comprise digital photographs and an annotated description. The building record will be carried out during the wider recording of the historic hedge boundaries to be removed under the scheme and this work will be programmed in consultation with the client. Should it be decided to re-site the stile, a methodology for any archaeological supervision required by the SDOHE will be discussed with the client and agreed with the SDOHE before removal, so that the

dismantling and re-construction of the stile can be carried out under agreement of all parties.

Creation of the physical and digital archive

Following review with the CAU Project Manager the results from the fieldwork will be collated as an archive.

This will involve the following.

- All finds, etc., will be washed, catalogued, and stored in a proper manner (being clearly labelled and marked and stored according to CAU guidelines).
- All records (drawings, context sheets, photographs, etc.) will be ordered, catalogued and stored in an appropriate manner (according to CAU guidelines).
- Any black and white negative film will be catalogued and deposited with the site archive.
- Colour digital images taken as part of the site archive will be either converted from colour to black and white negative film and added to the site archive or deposited with the Archaeology Data Service (ADS).
- Completion of the ADS OASIS online archive index.
- All correspondence relating to the project, the WSI, and a single paper copy of the report, stored in an archive standard (acid-free) documentation box.
- Drawn archive storage (plastic wallets for the annotated record drawings).
- Additional digital data (survey, external reports etc).

Archive deposition

An index to the site archive will be created and the archive contents prepared for long term storage, in accordance with CAU standards.

- The physical archive will go to an accredited archive repository, when a dedicated space becomes available. Until that time material will be stored at CAU offices.
- Digital data will be stored on the Cornwall Council network which is regularly and frequently backed up.
- Digital data (CAU reports, external reports, survey data, geophysics data, digital photographs etc) forming part of the site archive will be deposited with the ADS.

CAU uses the following file formats for stored digital data:

- DOCX Word processed documents
- XLSX Spreadsheets
- PDF Exports of completed documents/reports/graphics
- JPG Site graphics and scanned information

DNG or TIF Digital photographs

- DWG AutoCAD drawings, measured surveys
- MXD ArcView GIS (electronic mapping) data
- AI Adobe Illustrator graphics

Recording

During the archaeological recording the archaeologist will:

- Identify and record any archaeological features that are revealed; the level of recording will be appropriate to the character/importance of the archaeological remains.
- Site drawings (plans and sections) will be made by pencil (4H) on drafting film; all drawings will include standard information: site details, personnel, date, scale, north-point.
- All features and finds will be accurately located at an appropriate scale.
- All archaeological contexts will be described to a standard format linked to a continuous numbering sequence.
- Photographic recording will comprise colour photography using a digital SLR camera (with a resolution of 10 million pixels or higher; CAU will follow Historic England (2015) guidance on digital image capture and storage. Photographs will

include a record of significant features and general working shots. A metric scale, site and context identifier, and a north arrow where appropriate, will be included in all record shots.

Treatment of human remains

- If human remains are discovered within an archaeological context on the site the client, the SDOHE, and Public Health, Cornwall Council will be informed.
- Any human remains should only be excavated and removed if it is considered that they will contribute towards further scientific understanding.
- If excavation of human remains is proved necessary, the guidance given in the current CiFA guidelines for recording human remains (CIFA 2017) will be followed.
- A coroner's license must be obtained from the Ministry of Justice before any remains are disturbed. A licence to cover the scheme will be arranged by CAU prior to commencement of works.
- Any consents or licenses required will be obtained on behalf of the client by CAU.
- If human remains are uncovered, which require excavation, they will be excavated with due reverence. The site will be adequately screened from public view. Once excavated, human remains must not be exposed to public view. If human remains are not to be removed their physical security will be ensured, by backfilling as soon as possible after recording.

Treatment of finds

The fieldwork is likely to produce artefactual material. The treatment, analysis and archiving of artefactual material deriving from the archaeological works will be coordinated by the CAU project manager for the site. The following recording and retention policies will be followed:

- In the event that objects containing precious metal(s) are encountered, the coroner will be informed as per the provisions of the Treasure Act 1996.
- Significant finds in stratified contexts will be plotted on a scaled base plan or with a Leica GPS unit and recorded as small finds.
- All finds will be collected in sealable plastic bags which will be labelled immediately with the site code, the context number or other identifier, the type of material, and the finder's initials. The only exception to this policy will be that large assemblages of modern (post-1800) material may be representatively sampled.
- Modern (post-1800) finds may be disposed of at the cataloguing stage. This process will be reviewed ahead of its implementation.

Treatment of samples

The fieldwork may produce environmental samples. CAU's nominated environmental specialist is Dr Michael Allen (and see below) and CAU will liaise closely with him for ongoing advice throughout the duration of the project. Generally, the following collection, recording and processing policies will be followed:

- Sealed/undisturbed archaeological contexts in the form of buried soils, layers or deposits within significant archaeological features that have the potential to contain palaeoenvironmental evidence and/or material suitable for scientific dating will be sampled.
- Where bulk samples are taken a minimum of 40 litres will be sampled from these deposits where feasible.
- In the event that significant organic remains are encountered, advice may also be sought from the Historic England Regional Advisor for Archaeological Science.
- All samples will be described to a standard format linked to a continuous numbering sequence.
- Bulk samples will be processed using flotation with appropriate mesh sizes.

Outreach opportunities

If significant results emerge from the archaeological works, the opportunity for outreach and public engagement will be explored with the client. A contingency to cover the costs of any potential outreach will also be discussed with the client when quoting for the work, in the event this should be required.

The SDOHE will notify CAU of such a need during onsite work or within four weeks of receipt of the report, in consultation with the client and CAU.

Reporting

The results from the project will be drawn together and presented in a concise report. The scope of the report will be dependent on the scale and significance of the results from the project.

In the case of negative results, the findings will be presented in a CAU short report format. In the case of limited results, the findings will be presented in a concise archive report. Which type of report is most appropriate will be agreed by CAU and the SDOHE at the conclusion of the fieldwork stage.

In the case of significant and/or extensive results a post excavation assessment report will be produced in accordance with CIfA's (2014c) guidelines for post-excavation assessment. This will include a summary of the site archive and work carried out for assessment, a discussion of the potential of the data, and an updated project design (UPD) setting out proposals for analysis and publication.

The report will include the following elements:

- Summary
- Project background
- Aims and objectives
- Methodology
- Location and setting
- Site history
- Archaeological results
- Chronology/dating evidence
- Interpretation and discussion of the results
- Assessment of the potential of any data for further analysis
- Proposals for publication of the further analysis in an appropriate format
- Conclusions
- References
- Project archive index
- Supporting illustrations: location map, historic maps, plans, elevations/sections, photographs
- WSI as an appendix

Timetable

The study is anticipated to commence during late summer 2022. CAU will require at least 4 weeks' notice before commencement of work, in order to allocate field staff and arrange other logistics.

The archive report will be completed within 6 months of the end of the final phase of fieldwork. The deposition of the archive will be completed within 6 months of the completion of the archive report unless significant remains are uncovered which require further stages of analysis and publication. The deposition of the archive will then become the final stage of an agreed post excavation programme.

Monitoring and Signing Off Condition

Monitoring of the project will be carried out by the SDOHE. Where the SDOHE is satisfied with the archive report and the deposition of the archive, written discharge of the planning condition will be expected.

- The SDOHE will monitor the work and should be kept regularly informed of progress.
- Notification of the start of work shall be given preferably in writing to the SDOHE at least two weeks in advance of its commencement.

- Any variations to the WSI will be agreed with the SDOHE, in writing, prior to them being carried out.
- If significant detail is discovered, all works must cease and a meeting convened with the client and the SDOHE to discuss the most appropriate way forward.

Monitoring points during the study will include:

- Approval of the WSI
- Completion of fieldwork for each construction phase
- Completion of interim reports for each construction phase (if required)
- Completion of archive report
- Deposition of the archive

Regular (e.g., weekly) updates will provided to the SDOHE in areas of significant archaeology.

References

Primary sources (in chronological order):

Soil Survey of England and Wales 1983: Legend for the 1:250,000 Soil Map of England and Wales

Publications:

Bartlett, A, D, H 2011. Land at Langarth, Threemilestone, Cornwall, Report on Archaeological Geophysical Survey 2011. North Leigh, Oxford, Bartlett-Clark Consultancy CAU 2019. Managing Health and Safety within Cornwall Archaeological Unit. Truro, Cornwall Archaeological Unit, Cornwall Council

CIFA, 2017. Updated Guidelines to the Standards for Recording Human Remains. Reading, CIFA

CIfA, 2018. Policy Statements. Reading, CIfA

CIfA, 2019. Code of Conduct. Reading, CIfA

CIFA, 2020a. *Standards and Guidance for Historic Environment Desk-based Assessment*. Reading, CIFA

CIFA, 2020b. Standard and Guidance for Archaeological Field Evaluation. Reading, CIFA

CIFA, 2020c. Standard and Guidance for an Archaeological Watching Brief. Reading, CIFA

CIFA, 2020d. Standard and guidance for Archaeological Excavation. Reading, CIFA

Cornwall Council 2021. *Health and Safety Policy Statement – PLY001*. Truro, Cornwall Council

Cornwall County Council, 1996. *Cornwall landscape assessment 1994*. A report prepared by Landscape Design Associates and Cornwall Archaeological Unit

Fraser, A, & Latham, A, 2021. Addendum to Langarth Garden Village Environmental Statement Chapter 12 – Cultural Heritage. Results of 2020 and 2021 Geophysical Survey. Warrington, Arcadis

Gossip, J, 2007. *Threemilestone Park and Ride Scheme, Kenwyn, Truro Archaeological Evaluation and watching Brief 2007*. Truro, Historic Environment Service, Cornwall County Council

Gossip, J, 2021. Life outside the round – Bronze Age and Iron Age settlement at Higher Besore and Truro College, Threemilestone, Truro. In A.M. Jones & G. Kirkham, eds, *Later prehistoric settlement in Cornwall and the Isles of Scilly: Evidence from five excavations*. Oxford, Archaeopress, 149–280.

Grove, J, & Croft, B, 2012. South West Archaeological Research Framework Research Strategy 2012 – 2017. Taunton, Somerset County Council

GSB Prospection, 2011. Maiden Green, Treliske: Geophysical Survey 2010/70

Herring, P, 1998. *Cornwall's Historic Landscape: presenting a method of historic landscape character assessment*. Truro, Cornwall Archaeological Unit, Cornwall County Council and English Heritage

Historic England 2015. *Guidance note on Digital Image Capture and File Storage*. Swindon, Historic England

Latham, A, 2020a. *Langarth Garden Village Cultural Heritage Desk-Based Assessment*. Cardiff, Arcadis

Latham, A, 2020b. *Langarth Garden Village Appendix 12.7 Heritage Impact Assessment on Listed Milestone*. Cardiff, Arcadis

Morris, B, 2021. *Langarth Garden Village, Langarth, Truro, Results of an Archaeological Evaluation*. South Molton, Southwest Archaeology

Morris, B, 2022. Langarth Garden Village – Walkers Ground, Langarth, Truro, Cornwall, Results of an Archaeological Evaluation. South Molton, Southwest Archaeology

Passmore, A, 2012. *Maiden Green and Willow Green, Truro, Cornwall, Results of an archaeological trench evaluation*. Bradninch, Exeter, AC Archaeology

Petric, M, 2018. Archaeological Desk-based Assessment, East Langarth Threemilestone Truro TR3. CgMs Limited

Rainbird, P, 2015. Land at West Langarth, Threemilestone, Cornwall, Results of an archaeological trench evaluation. Bradninch, Exeter, AC Archaeology

Richardson, T, 2015. *Geophysical Survey Report, West Langarth, Truro*. Upton upon Severn, Stratascan

Salmon, F, 2021. *Geophysical Survey Report, Langarth Garden City, Truro*. Bradford, Magnitude Surveys

Websites:

British Geological Survey 2022. *Geology of Britain Viewer*. <u>Geology of Britain viewer | British Geological Survey (BGS)</u>

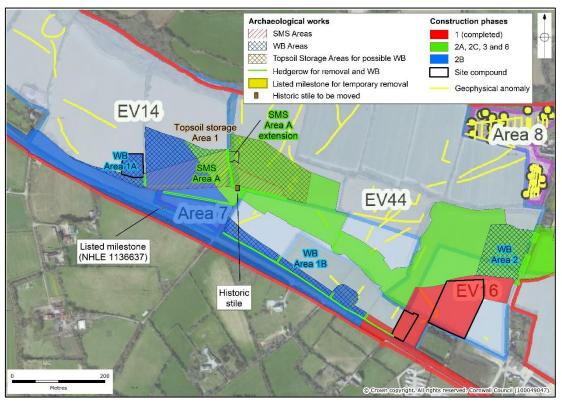


Figure 3 Truro NAR archaeological works against the geophysical survey results (excluding Salmon 2021), West to mid Langarth. Geophysical survey montage © Arcadis 2021.

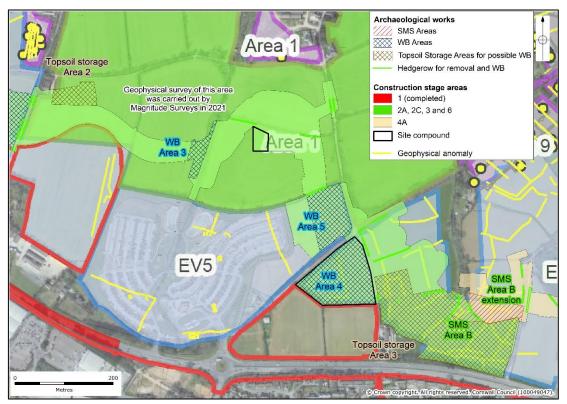


Figure 4 Truro NAR archaeological works against the geophysical survey results (excluding Magnitude Surveys; Salmon 2021), Mid Langarth to Willow Green. Geophysical survey montage © *Arcadis 2021.*

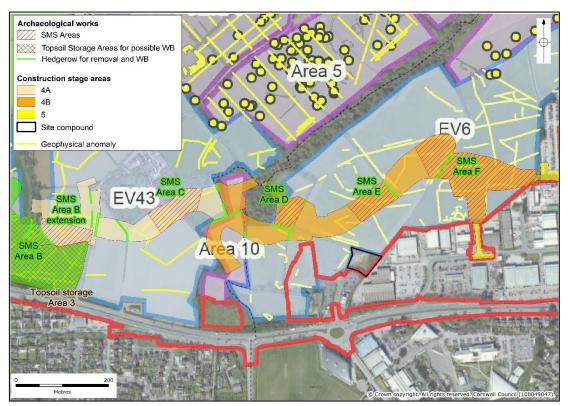


Figure 5 Truro NAR archaeological works against the geophysical survey results, Willow Green to East Langarth. Geophysical survey montage © *Arcadis 2021.*

Latham 2020 Project ID	HER Ref/Unique ID	Event Type	Event Name
EV4	ECO2921	Geophysical Survey	Truro Local Distributor Road
EV4	ECO3568	Truro LDR Stage 3	Truro Local Distributor Road
EV5	ECO1680	Geophysical Survey	Threemilestone park and ride
EV5	ECO1679	DBA, Geophysical Survey	Threemilestone park and ride
EV5	ECO1678	DBA	Threemilestone park and ride
EV5	ECO2512	DBA	Threemilestone park and ride
EV5	ECO2128	Watching Brief and trial trenching	Threemilestone park and ride
EV6	ECO3258	Geophysical Survey	Maiden Green Treliske
EV6	ECO3799	Evaluation	Maiden Green and Willow Green
EV6	ECO3939	EIA	Treliske & Maiden Green
EV6	ECO3284	DBA and Impact Assessment	Governs
EV6	ECO3938	HIA	Willow Green Farm
EV14	ECO4806	Geophysical Survey	1978 - AM Lab
EV14	ECO4276	DBA	West Langarth
EV16	ECO4717	Geophysical Survey	Land at Langarth
EV43		Geophysical survey	East Langarth Farm
EV44		Geophysical Survey and Trial Trenches	Phase 1 and 2 Areas, Land at Langarth Farm, Threemilestone, Cornwall

Table of Archaeological Events referred to in Figs 3-5 (extracted from Latham 2020):

Cornwall Archaeological Unit

Cornwall Archaeological Unit is part of Cornwall Council. CAU employs 14 project staff with a broad range of expertise, undertaking around 120 projects each year.

CAU is committed to conserving and enhancing the distinctiveness of the historic environment and heritage of Cornwall and the Isles of Scilly by providing clients with a number of services including:

- Conservation works to sites and monuments
- Conservation surveys and management plans
- Historic landscape characterisation
- Town surveys for conservation and regeneration
- Historic building surveys and analysis
- Maritime and coastal zone assessments
- Air photo mapping
- Excavations and watching briefs
- Assessments and evaluations
- Post-excavation analysis and publication
- Outreach: exhibitions, publication, presentations

Standards



CAU is a Registered Organisation with the Chartered Institute for Archaeologists and follows their Standards and Code of Conduct.

http://www.archaeologists.net/codes/ifa

Terms and conditions

Contract

CAU is part of Cornwall Council. If accepted, the contract for this work will be between the client and Cornwall Council.

The views and recommendations expressed will be those of CAU and will be presented in good faith on the basis of professional judgement and on information currently available.

Project staff

The project will be managed by Dr Fiona Fleming who will:

- Discuss and agree the detailed objectives and programme of each stage of the project with the client and the field officers, including arrangements for health and safety.
- Monitor progress and results for each stage.
- Edit the project report.
- Liaise with the client regarding the budget and related issues.

Work will be carried out or supervised by CAU field staff, with assistance from qualified specialists and sub-contractors where appropriate. All staff will follow CAU's Health and Safety Policy and work in accordance with a site-specific risk assessment.

Specialists

Finds Illustration	George Scott
Conservation	Laura Ratcliffe BSc
Environmental sampling	Dr Michael Allan FLS, FSA
Palaeoenvironmental advice	Dr Michael Allan FLS, FSA
Lithics	Anna Lawson-Jones BA
Prehistoric and Roman pottery	Henrietta Quinnell/ Dr Imogen Wood
	38

John Allen/ Dr Imogen Wood Medieval ceramics Medieval/post-medieval pottery Carl Thorpe, CAU Prehistoric to medieval metalwork Anna Tyacke Animal remains Dr Clare Randall (freelance specialist in faunal analysis and human osteology) Dr Richard Mikulski, CAU

Human remains

Report distribution

A digital copy of the report will be sent to the client. A paper copy can be supplied on request.

Once verified by Cornwall HER, a digital copy of the report will also be publicly available online via the Archaeology Data Service (ADS) Library.

Copyright

Copyright of this Written Scheme of Investigation will be reserved to Cornwall Archaeological Unit, Cornwall Council. It may only be used/reproduced with permission from Cornwall Archaeological Unit.

Existing copyrights of external sources will be acknowledged where required.

Freedom of Information Act

As Cornwall Council is a public authority it is subject to the terms of the Freedom of Information Act 2000, which came into effect from 1st January 2005.

CAU will ensure that all information arising from the project shall be held in strict confidence to the extent permitted under the Act. However, the Act permits information to be released under a public right of access (a "Request"). If such a Request is received CAU may need to disclose any information it holds, unless it is excluded from disclosure under the Act.

Health and safety statement

CAU follows Cornwall Council's Statement of Safety Policy.

Prior to carrying out on-site work CAU will carry out a site-specific Risk Assessment.

Insurance

CAU is covered by Cornwall Council's Public and Employers Liability Insurance, with a policy value of £50m. The Council also has Professional Negligence insurance with a policy value of £10m.

Dr Fiona Fleming Senior Archaeologist 13/10/2022

Cornwall Archaeological Unit

Cornwall Council Room 4G, Pydar House, Pydar Street, Truro, Cornwall. TR1 1XU Tel: 07483 357270 Email: fiona.fleming@cau.org.uk

Appendix 1

Methodology for Relocating Milestones and Boundstones

Cornwall Council Historic Environment Planning

Methodology for Relocating Milestones and Boundstones

1.1 General

The contractor must take care when moving any stone, to ensure that it is not damaged in any way. The stone should be lifted using webbing strops, should be carried rather than dragged along the ground, and should be laid down on pieces of timber, rather than directly onto the ground. Recording and labelling is important, to make sure that the stones can be repositioned as accurately as possible.

1.2 Recording before stones are moved

This is essential for all stones that are to be removed, so that they can be restored as accurately as possible.

1. Using a hand-held GPS, record the grid reference. Do not assume that the grid reference given for the monument is accurate (mistakes can be made!).

2. Record the orientation of the main inscribed faces using a compass.

3. Take photos of the stone from several angles, to record the setting and show how deeply buried it is, its condition prior to removal, and its setting in relation to any features that may help in repositioning it accurately (as far as possible, given the major changes to setting that are about to happen).

4. Measure the height of the stone above ground level so that it can be restored to the correct height.

5. Ensure that this data is stored securely for the duration of the project. This recording should be done by a suitably qualified archaeological contractor in accordance with nationally agreed standards.

1.3 Lifting individual stones

The archaeological contractor will:

- 1. Dig carefully around the stone to loosen before lifting.
- 2. Lift the stone with webbing strops, not a chain or rope.
- 3. Lift using a machine (tractor or digger) with fore-loader.

4. Place the stone carefully in a trailer on at least $75mm \times 75mm (3x3 \text{ inch})$ timber posts, or similar, to protect it from damage or abrasion during transport to store or place the stone in a trailer on a pallet so the once in store, the pallet can be lifted from the trailer using a fork lift.

5. Label the stone with its site number, to ensure that the right stone is put back in the right place. This can be done using chalk (not marker pen); or with a label tied securely around the stone.

Note: If a milestone (or similar) is broken in two and joined with stainless steel dowels, or weak in the middle, it must be handled with extreme care.

An archaeological contractor must be present throughout to ensure there is no damage to the stone or post.

1.4 Storing stones

Stones should not be laid directly on the ground but should be laid on pallets or at least 75mm x 75mm (3x3 inch) timber posts and covered with tarpaulin to protect from damage. Special care must be taken not to place any repaired joint of the milestone under any stress.

1.5 Replacing stones

1.5.1 General

The stones should be replaced in their exact original positions or as close to this as possible. This should be determined with the advice of a contracting archaeologist and using GPS.

Before they are repositioned, the archaeologist should consult the initial recording to make sure that the stone is put back in the correct orientation and at the right depth.

All inscriptions should be visible and in the case of a milestone, the depth will be indicated by the finish of the worked masonry.

Where a stone cannot be put back in the same place, it should be repositioned as close as possible to the original location -

- On the same side of the road as previously.
- To the same orientation as previously.
- Where the stone will be visible.
- Where there will be safe access for maintenance.

• Where the stone will be as safe as possible from traffic collision. Any broken or loose boundstone should be set in the ground in order to make it safe from theft, even if it means that only a few inches can be buried in the ground.

1.5.2 Methodology for re-erection

The main contractor will:

1. Dig a hole of appropriate size. This will be advised by the contracting archaeologist and will be as close as possible to the stone's measurements across at ground level, and to a depth which reflects the level to which it should be buried.

2. Lift the stone with webbing strops. Langarth Garden Village Environmental Statement Heritage Impact Assessment on Listed Milestone

3. Lift the stone from the trailer using a tractor or digger with fore-loader.

4. Lower the stone gently into the hole.

5. Check that it is upright, trigging with wooden wedges, small stones or pieces of slate if necessary.

6. Backfill hole, tamping well to ensure the stone is stable and secure. Do not use cement or concrete to fix it.

7. Brush the stone lightly to remove any soil and debris.

Note: To repeat, stones should not be set in concrete or cement.

1.5.3 Gravel margin

The contractor, in discussion with the contracting archaeologist, will consider whether to install a gravel margin, to prevent vegetation from growing back too quickly and to maintain visibility of the stone in future, especially if future maintenance is likely to be a difficulty. This may depend on the final positioning of the stones in relation to the new location or road.

The following specification for forming a gravel margins around a stone is from Historic England's (then English Heritage) 'Guidance on the Conservation of Milestones' (Parry 2006, p12):

"In areas of vegetation the purpose of the margin is to reduce the rate at which new vegetation colonises the ground around the stone. Therefore the margin needs to be as wide as possible, 900mm from the face of the stone on all sides would be a good starting point if space is available. In paved areas the margin is intended as a 'breather zone' and 300 mm will be sufficient."

"The margin should be excavated to a depth of 100mm, exposing the natural substrate, lightly compacted. A treated timber edge board should be fixed on timber stakes to define the perimeter of the margin. The excavated area should be treated with weed killer and overlaid with a geotextile membrane. The margin should then be backfilled with clean pea gravel to the full depth of the excavation."

1.6 Final recording

To be undertaken by the contracting archaeologist.

1. Using a hand-held GPS, record the new grid reference (where it is known to have changed).

2. Take a photo of the stone to record its final restoration. This will be archived and recorded in an archaeological project report as a result of the relocation/restoration project.

1.7 After repositioning

Following reinstatement, some further work may be required. In accordance with advice from the Milestone Society, the following may apply:

Following reinstatement, the milestone may require to be repainted, based on the methodology provided in the English Heritage/Cornwall County Council 'Bridges, Crosses and Milestones Heritage Partnership Agreement' pilot study.

Preparation

• Heavy lichen growth and existing loose paint to be removed with a stiff (nonferrous) brush and then the stonework to be rubbed down with a clean rag. Particular attention should be paid to lettering.

Paint Mixes/Types

• Smooth white matt white masonry paint (e.g., Sandtex) is to be used for the main body of the stone, unless historic evidence suggested a different colour was used.

• Black masonry paint is to be used for lettering, unless historic evidence suggested a different colour was used.

Method

• Apply paint in dry conditions, only.

 \bullet Where appropriate, paint stone face with undercoat of masonry paint, leave to dry and follow with topcoat.

• If existing paint is in reasonable condition, then use one coat only of masonry paint.

• Pick out the lettering in black paint (or other, if advised) following the engraving on the stone.

Note: The boundstones must not be painted.

2. References

English Heritage/ Cornwall County Council 2006. Bridges, Crosses and Milestones Heritage Partnership Agreement pilot

Parkes, C, 2012. A30 dualling Temple to Higher Carblake, Cornwall: Archaeological Assessment, CAU Truro

Parry, S, 2006. A guidance note for the conservation of milestones, English Heritage A30 Temple to Higher Carblake Improvement Team, 2013. A30 Temple to Higher Carblake Improvement Order: environmental statement, Cornwall Council

3. Websites

http://www.heritagegateway.org.uk/gateway/ English Heritage's online database of Sites and Monuments Records, and Listed Buildings

http://www.milestonesociety.co.uk/conservation.html

Cornwall Archaeological Unit

Pydar House, Pydar Street, Truro, Cornwall TR1 1XU



(01872) 323603

