

CFA ARCHAEOLOGY LTD

May 2008

Grid Ref. NY 3742 5620

Commissioned by Story Construction Ltd.

This document has been prepared in accordance with CFA standard operating procedures.	
Author:	Date
Approved by:	Date
Draft/Final Report Stage:	FINAL

Authors: Magnus Kirby MA FSA Scot AIFA

Illustrator: LeeAnne Whitelaw BSc MAAIS

Editor: Bruce Glendinning BSc PgDip MIFA

CFA ARCHAEOLOGY LTD
The Old Engine House
Eskmills Business Park
Musselburgh EH21 7PQ

Tel: 0131 273 4380

Fax: 0131 273 4381

email: info@cfa-archaeology.co.uk
website: www.cfa-archaeology.co.uk

**Land off Burgh Road,
Carlisle, Cumbria**

Archaeological Excavation

Report No. 1474

CONTENTS

1.	Introduction	3
2.	Methods Statement	4
3.	Archaeological Results	5
4.	Discussion	11
5.	Conclusion and Recommendations	12
6.	References	13

Appendices

Appendix 1: Context Register	14
Appendix 2: Photo Register	19
Appendix 3: Drawings Register	22
Appendix 4: Samples Register	23
Appendix 5: Finds Register	24

Illustrations (bound at rear)

Fig. 1	Site Location and Position of Archaeological Features
Fig. 2	Section 097 , north facing
Fig. 3	Section 244 , north facing
Fig. 4	Section 255 , east facing
Fig. 5	Plan of Entranceway into Enclosure 101
Fig. 6	Section 032/036 , SE facing
Fig. 7	Section 123 , SE facing
Fig. 8	Section 005 SE facing
Fig. 9	Section 003 , NW facing
Fig. 10	Section 015 , west facing
Fig. 11	Section 130 , SW facing
Fig. 12	Section 155 , north facing
Fig. 13	Section 143 , SW facing
Fig. 14	Section 160 , SW facing
Fig. 15	Pit 147 , east facing section

1. INTRODUCTION

1.1 General

- 1.1.1 This report presents the results of an archaeological excavation undertaken by CFA Archaeology Ltd (CFA) between February and April 2008 on the site of a proposed residential development on land off Burgh Road, Carlisle, Cumbria (NGR NY 37423 56202 (centred)) (Fig.1). The work was commissioned by Story Construction Ltd.
- 1.1.2 A Project Design (PD) for the excavation was produced by CFA. The PD was based upon a *Brief for an Archaeological Investigation on Land Adjacent to Vallum House Hotel*, prepared by Jeremy Parsons of the Cumbria County Council Historic Environment Service (CCCHES).

1.2 Background

- 1.2.1 The site is located between Burgh Road and Moorhouse Road (B5307) on the north-west outskirts of Carlisle and lies within a largely residential area on an area of land adjacent to Vallum House Hotel. It is situated on a low ridge overlooking the River Eden, approximately 300m to the south of Hadrian's Wall Vallum.
- 1.2.2 The proposed development area consisted of c.0.96ha of grassed wasteland. It is understood that it was previously utilised as a market garden and contained several greenhouses and warehouses.
- 1.2.3 This excavation represents mitigation measures implemented in response to a previous evaluation carried out by CFA in 2007 (White, Hill and Richardson 2007). The 2007 evaluation identified a series of ditches, one of which contained sherds of pottery from a single redware vessel of probable Roman date.

1.3 Aims and Objectives

- 1.3.1 The aims of the project were:
- a) To preserve by record the archaeological evidence contained within the site and to attempt a reconstruction of the history and use of the site.
 - b) To address a series of academic aims, which should include:
 - Contribute to an understanding of the environment of the Solway Plain during the Romano-British period.
 - Contribute to an understanding of the Roman rural economy in the Solway Plain.
 - c) To inform wider regional, national and period based research frameworks

2. METHODS STATEMENT

2.1 General

2.1.1 CFA Archaeology Ltd follows the Institute of Field Archaeologists' Code of Conduct, Standards and Guidance.

2.1.2 The area of investigation measured 2400m².

2.2 Excavation Strategy

2.2.1 The work was carried out in accordance with the terms of the *Brief for an Archaeological Investigation on Land Adjacent to Vallum House Hotel* prepared by CCCHES.

2.2.2 The removal of topsoil and modern overburden was conducted by a 360° mechanical excavator equipped with a smooth-bladed ditching bucket. All groundbreaking work was carried out under constant archaeological supervision.

2.2.3 Following the removal of the topsoil, the site was hand cleaned and a base plan was produced.

2.2.4 Not less than 50% of all discrete features and not less than 10% of all linear features were investigated and all sections where features were stratigraphically related with other features were targeted.

2.2.5 Samples of deposits with high archaeological or ecofactual potential were taken, and all finds were retained.

2.2.6 All features and spoil were scanned using a metal detector.

2.2.7 All excavation and on-site recording was carried out according to standard CFA procedures, principally by drawing, by photography and by completing standard CFA record forms.

2.2.8 The location of all archaeological features was recorded using industry standard electronic surveying equipment.

3. ARCHAEOLOGICAL RESULTS

3.1 General

- 3.1.1 The excavation identified part of a large ditch, which is believed to be the western side, southern side and part of the northern side of a rectilinear enclosure. Also identified was a network of shallow linear ditches and a sub-circular pit. All these features are thought to date to the Roman period. A significant number of modern drains and pits believed to be associated with the market garden that previously occupied the site were also uncovered.
- 3.1.2 Numbers in bold and parentheses are context numbers, a full list of which can be found in Appendix 1.

3.2 Archaeological Features

Enclosure Ditch 101

- 3.2.1 A large ditch (**101**) (Fig.1) believed to be the western side, southern side and part of the northern side of a rectilinear enclosure was uncovered immediately to the south and west of the grounds of Vallum House Hotel. This feature continued into the section to the north and east, onto an area of land that lay outwith the scope of this investigation. Consequently, a significant part of the interior of the enclosure was not investigated. The western side of the enclosure measured 35m in length and the southern side measured 30m in length. Roman pottery was recovered from contexts **094, 096, 102, 167, 168, 189** and **228**.
- 3.2.2 Over the course of the excavation c.15 linear meters of the ditch fill were removed and twelve sections (**071, 089, 097, 116, 165, 170, 179, 187, 225, 235, 244** and **255**) were recorded. The ditch was generally V-shaped (Fig.2, Fig.3 and Fig.4) with steeply sloping sides, but on some of the sections recorded the base was slightly rounded. It had a width of c.3.6m and a depth of c.1.3m. The fill of the ditch showed a wide variety of different deposits and tip marks, possibly indicating that it had silted up slowly rather than being deliberately back-filled.
- 3.2.3 An entranceway (Fig.5) into the enclosure was identified in the southern side of the ditch, slightly offset from centre towards the east. A clearly defined terminus was present to the east of the entranceway, but the terminus to the west of the entranceway had been largely removed by the insertion of a modern pit (**198**), which only left the very base of the ditch undisturbed. The positioning of the modern pit made it impossible to get an accurate measurement of the width of the entranceway, but based on the slope of the eastern terminus, it is estimated that it would have been c.2.5m. Sherds of Roman pottery were recovered from both termini.
- 3.2.4 The north-west and south-west corners of the enclosure were fully uncovered during this investigation and the south-east corner was partially uncovered. Both corners fully uncovered were very sharp, almost to the point of being

right-angled and the part of the south-east corner uncovered suggests that it would have been very similar. An iron ring was uncovered from the base of the north-west corner.

Ditch 103

- 3.2.5 Ditch **103** (Fig.1) was orientated north-west to south-east, emerging from beneath the section along the western edge of the site and terminating where it met enclosure **101**. There was also a spur running from the main ditch at right angles, continuing into the section along the north-east edge of the site. A slot was excavated into the area where the spur left the main ditch and three sections (**033/036**, **054** and **064**) were recorded. Roman pottery was recovered from contexts **055** and **062**.
- 3.2.6 Section **032/036** (Fig.6) showed that the ditch had been re-cut. The earlier of the two cuts (**032**) curved round to the north-east forming the spur recorded on the surface of ditch **101**. This part of the ditch was also recorded in section **064**. It measured 2.2m in width by 0.7m deep and had sloping sides and a flat base. The later of the two cuts (**036**) continued on a north-west to south-east orientation, being recorded again in section **054**. Sections **036** and **054** measured c.2.2m in width by 0.6m in depth and also had sloping sides and a rounded base.
- 3.2.7 A slot was also excavated in the location where ditch **103** joined enclosure **101** and two sections (**123** and **009/012**) were recorded. Section **123** (Fig.7) was positioned across ditch **103**. In this location it measured 1.6m in width by 0.58m in depth and had sloping sides and a rounded base. Section **009/012** was positioned longitudinally to established the relationship between ditch **103** and enclosure **101**. It clearly demonstrated that enclosure **101** cut ditch **103**, making ditch **103** the earlier of the two features.

Ditch 105

- 3.2.8 Ditch **105** (Fig.1) was orientated north-west to south-east, emerging from beneath the section along the western edge of the site and terminating c.2m to the west of the north-western corner of enclosure **101**. Two sections (**005** and **028**) (Fig.8) recorded across the ditch showed that it had a width of 0.5m – 0.8m and a depth of 0.06m – 0.16m. The ditch had a flat base and gently sloping sides and the sections recorded contained a single homogenous fill (**006** and **029** respectively). A 25m length of the ditch was exposed and two slots totalling 2.5 linear metres were excavated.

Ditch 107

- 3.2.9 Ditch **107** (Fig.1) was orientated north-west to south-east, emerging from beneath the section along the western edge of the site and terminating c.3.5m to the west of the north western corner of enclosure **101**. Two sections (**003** and **026**) (Fig.9) recorded across the ditch showed that it had a width of c.1m and a depth of c.0.2m. The ditch had a flat base and gently sloping sides and the sections recorded contained a single homogenous fill (**004** and **026**

respectively). A 20m length of the ditch was exposed and two slots totalling 2 linear metres were excavated.

Ditch 109

- 3.2.10 Ditch **109** (Fig.1) was orientated east to west, emerging from beneath the section along the western edge of the site and terminating c.3m to the west of enclosure **101**. A section (**015**) (Fig.10) recorded across the ditch showed that it had a shallow V-profile with a width of c.1.2m and a depth of 0.35m and that it contained an upper (**016**) and lower (**017**) fill. A 12m length of the ditch was exposed and one slot measuring 1.2 linear metres was excavated.

Ditch 111

- 3.2.11 Ditch **111** (Fig.1) was curvilinear in nature, measuring c.44m in length. From a terminus at its southern end, it curved in a north-westerly direction before turning back on itself towards the north-east, terminating where it met ditch **113**. Three sections (**130**, **132** and **136**) recorded across the ditch showed that it had sloping sides and a concave base and that it had a width of 1.2m – 2m and a depth of 0.28m – 0.6m. Three fills (**133**, **134** and **135**) were recorded in section **132**, but only one fill was recorded in section **130** (Fig.11) and section **136** (**131** and **137** respectively). The excavation of an L-shaped slot (**139/141**) showed that ditch **113** cut ditch **111**, indicating that ditch **111** was the earlier of the two features. Three slots totalling 5 linear metres were excavated across ditch **111**.

Ditch 113

- 3.2.12 Ditch **113** was orientated north to south, emerging from beneath the section along the south-eastern edge of the site and terminating where it met enclosure **101**. Three sections (**126**, **155** and **221**) recorded across the ditch showed that it had sloping sides and a flat base and that it had a width of 1.2m – 1.7m and a depth of 0.3m. Section **155** (Fig.12) contained a single fill (**156**) and section **221** and **156** contained two (**222** and **224**) and three fills (**127**, **128** and **129**) respectively. The excavation of an L-shaped slot (**150/155**) showed that ditch **101** cut ditch **113**, indicating that ditch **113** was the earlier of the two features. A 23m length of the ditch was exposed and three slots totalling 5.5 linear metres were excavated. Roman pottery was recovered from context **156**.

Ditch 142

- 3.2.13 Ditch **142** (Fig.1) was orientated south-west to north-east, with a length of c.13m. Two sections (**143** (Fig.13) and **145**) recorded across the ditch showed that it had sloping sides and a flat base and that it had a width of c.1.3m and a depth of c.0.2m. Both the sections recorded contained a single fill (**144** and **146** respectively). Two slots totalling 2 linear metres were excavated across ditch **142**.

Ditch 161

- 3.2.14 Ditch **161** (Fig.1) was linear in nature with a length of 15m. From a terminus at its south-western end, it extended in a north-east direction, terminating where it met ditch **113**. Two sections (**160** (Fig.14) and **163**) recorded across the ditch showed that it had sloping sides and a flat base and that it had a width of c.1m and a depth of 0.1m to 0.3m. To the north of section **163**, the ditch narrowed considerably going down to a width of c.0.2m. Two fills (**157** and **158**) were recorded in section **160** and a single fill (**164**) was recorded in section **163**. Two slots totalling 2 linear metres were excavated across ditch **161**. It was not possible to establish the relationship between ditches **161** and **113** because a modern field drain had destroyed the junction.

Pit 147

- 3.2.15 Pit **147** (Fig.1) was oval in shape, measuring 3.4m east to west by 2.6m north to south by 0.38m deep. Circa 50% of the pit fill was removed, with the section (Fig.15) recorded showing that it had two fills (**147** and **148**). There were no finds from the pit.

3.3. Modern Features

Pit 198

- 3.3.1 Pit **198** was irregular in shape, measuring c.9m east to west by c.5m north to south by up to 0.8m in depth. It had been excavated into the entranceway of enclosure **101**, destroying much of the western terminus. Recent pottery and decayed chipboard was recovered from the fill, suggesting that it dates to the 20th century.

Pits 018, 020, 022, 024,049, 067 and 069

- 3.3.2 A cluster of small pits (**018, 020, 022, 024,049, 067** and **069**) were identified to the west of enclosure **101**. Pottery recovered from these pits suggests that they are modern in date and it is believed that they are associated with the market garden that previously occupied the site.

3.4 The Finds (Sue Anderson)

- 3.4.1 A summary of the finds assemblage is shown in Table 1, and a full list by context is included as Appendix 5.

Find type	No.	Wt (g)
Pottery: Roman	40	899
Pottery: post-medieval	21	119
Ceramic building material	14	154
Mortar	1	9
Glass	5	100
Clay pipe	5	9
Flint	1	12
Iron	3	62
Copper alloy	1	6
Slag/burnt material	19	73
Bone	2	4
Leather	4	45
Wood	8	710
Unidentified	1	20

Table 1. Finds quantification.

Prehistoric find

- 3.4.2 One worked flint flake was found in fill **100** of the enclosure ditch **101**.

Roman Finds

- 3.4.3 Roman pottery was recovered from ten contexts (**055, 062, 094, 096, 102, 156, 167, 168, 189** and **228**) as well as being collected as surface finds and during cleaning. The assemblage included a number of fine redwares (some possibly or certainly samian) which were heavily abraded and had no surviving surfaces. A few sherds of greywares, two pieces of a whiteware flagon handle, two large rimsherds of a whiteware mortarium and a piece of amphora were also present.
- 3.4.4 An abraded fragment of Roman tile was recovered from ditch fill **178**. The underside was sooted.
- 3.4.5 A very worn copper alloy disc was found during cleaning. It is likely to be a Roman coin, but an x-ray will be required to confirm this.
- 3.4.6 An iron ring found in ditch fill **048** will also require an x-ray for identification. One nail from ditch fill **156** was found in association with Roman pottery and is also likely to be of this date. One fragment of iron from the surface is of uncertain date and requires an x-ray.
- 3.4.7 One calcined fragment of animal bone, collected during cleaning, may be of early date.

Post-Roman Finds

- 3.4.8 Eight contexts contained pottery of post-medieval or modern date, including refined factory-made whitewares, slipped/glazed and unglazed red earthenwares, industrial slipware, and a porcelain miniature (toy) jug. This material was generally recovered from pit fills or the upper fills of ditches.

- 3.4.9 CBM was recovered during cleaning and from upper ditch fill **171**, and comprised red brick and pantile, all probably of 19th-century or later date. A fragment of white lime mortar came from ditch fill **090** but is likely to be post-medieval rather than Roman.
- 3.4.10 The glass assemblage comprised a shard of a blue pharmaceutical bottle from cleaning, a fragment of uncoloured modern window glass from pit fill **019**, and three handmade bottle fragments of 18th/19th-century date from **201**. Five clay pipe fragments from **201** included a bowl fragment which suggests a late 18th or early 19th-century date for this context.
- 3.4.11 Fragments of slag, burnt material, unburnt bone, leather and wood collected from the site were generally found in association with late 18th/19th-century artefacts. The conditions of preservation on the site, with its acidic soil and lack of waterlogging, suggest that the organic materials recovered are all of relatively recent date.

Statement of potential

- 3.4.12 With the exception of the Roman pottery and a few small finds, the finds assemblage is largely of post-medieval date and has little to contribute to the history of the site, beyond showing that some of the features and upper fills are of recent date. No further work is required on this part of the assemblage.
- 3.4.13 A more detailed report on the Roman pottery is required to provide closer dating for the Roman period features, and to provide information on sources and types of pottery in use. The small group of other finds may provide additional information on the dates and types of activity carried out here, and will require x-rays for identification. The prehistoric flint should also be submitted for a short report.

4. DISCUSSION

- 4.1. During the archaeological investigations at Land off Burgh Road, part of a large ditch believed to be the western and southern sides of a rectilinear enclosure was identified together with a complex of smaller ditches. Based on the dimensions of the western and southern sides, it is estimated that the enclosure measured c.35m from north to south by c.30m east to west (externally). The ditch forming the enclosure measured c.3.6m in width by up to c.1.4m in depth and had the classic V-shaped profile generally associated with Roman military installations.
- 4.2. Because the majority of the eastern and northern sides of the enclosure together with the greater part of the interior lay outwith the area of this investigation, it was not possible to establish the purpose of the enclosure. However, the ditch was of a size and nature to have served a defensive function and the enclosed area was similar in size to those associated with a number of watchtowers and smaller fortlets identified in other parts of Roman Britain. The location of this site on a low ridge overlooking the low-lying ground to the north of Hadrian's Wall would have made it ideally suited for locating a watchtower or lookout post.
- 4.3. The complex of smaller ditches probably represent evidence of land management dating to the Roman period. A similar network of ditches was identified during a recent programme of works carried out at Burgh-by-Sands (Mitchell 2006). These ditches may represent the remains of agricultural field systems. The random layout of the ditches suggests that they may not be contemporary, and indeed a number of stratigraphic relationships were discerned: ditch 103 was earlier in date than ditch 101, ditch 111 was earlier than ditch 113, and ditch 113 was earlier than ditch 101. It is possible that rectilinear ditch 101 is later than the other ditches represented on the site, indicating a change in use of the site.

5. CONCLUSION AND RECOMMENDATIONS

- 5.1 An archaeological investigation carried out off Burgh Road, Carlisle identified what is believed to be the western and northern sides of a rectilinear enclosure together with a complex of smaller ditches. Pottery recovered from a number of these features suggest that they date from the Roman period.
- 5.2 CFA recommends a programme of post-excavation and publication. An Updated Project Design and Costed Assessment for Post-excavation will be provided under separate cover.
- 5.3 The online OASIS form will be completed as part of the project.
- 5.4 A summary report will be submitted to the *Transactions of the Cumberland and Westmorland Antiquarian Society* within one year of completion of fieldwork.
- 5.5 Following completion of all relevant analyses, the project archive, comprising all CFA record sheets, plans and reports, will be prepared in accordance with the recommendations of *The Management of Archaeological Projects* (2nd ed, 1991), and arrangements made for its deposition with an appropriate repository. A copy will also be offered to the National Monuments Record.
- 5.6 The Cumbria County Council Historic Environment Service will be notified of the arrangements made for the deposition of the archive.

6. REFERENCES

Breeze D.J. 1982, *The Northern Frontiers of Roman Britain*, London

Breeze D.J. 2006, *J Collingwood Bruce's Handbook to the Roman Wall*. 14th Edition, Newcastle Upon Tyne.

Maxwell G.S. 1989, *The Romans in Scotland*, Edinburgh

Mitchell S. 2006, *Amberfield, Burgh by Sands, Cumbria: Archaeological Excavation*. Unpublished CFA Report No. 1226

White R, Hill I and Richardson P. 2007, *Land off Burgh Road, Carlisle, Cumbria: Archaeological Desk-Based Assessment and Evaluation*, Unpublished CFA Report No. 1347

APPENDIX 1: Context Register

Context	Cut	Description
001		Topsoil
002		Subsoil – orange brown sandy gravel
003		Section cut of ditch 107
004	003	Fill of 003
005		Section cut of ditch 105
006	005	Fill of 005
007		Cut of modern feature
008	007	Fill of 007
009		Section cut of ditch 101
010	009	Fill of 009
011	009	Fill of 009
012		Section cut of ditch 103
013	012	Fill of 012
014	012	Fill of 012
015		Section cut of ditch 109
016	015	Upper fill of 015
017	015	Lower fill of 015
018		Cut of shallow pit
019	018	Fill of 018
020		Cut of shallow pit
021	020	Fill of 020
022		Cut of stakehole
023	022	Fill of 022
024		Cut of stakehole
025	024	Fill of 024
026		Section cut of ditch 107
027	026	Fill of 026
028		Section cut of ditch 105
029	028	Fill of 028
030		Cut of pit
031	030	Fill of 030
032		Section cut of ditch 103
033	032	Primary fill of 032
034	032	Main fill of 032
035	032	Fill of 032
036		Section cut of ditch 103
037	036	Primary fill of 036
038	036	Fill of 036
039	036	Fill of 036
040	036	Main fill of 036
041		Section cut of ditch 107
042	041	Fill of 041
043		Section cut of ditch 109
044	043	Fill of 043
045		Section cut of ditch 101
046	045	Upper fill of 045
047	045	Middle fill of 045
048	045	Primary fill of 045
049		Cut of burnt pit
050	049	Fill of 049
051	049	Fill of 049
052	049	Fill of 049
053		Not Used
054		Section cut of ditch 103

Context	Cut	Description
055	054	Primary fill of 054
056	054	Fill of 054
057	054	Fill of 054
058		Cut of pit
059	058	Fill of 058
060		Section cut of ditch 103
061	060	Fill of 060
061A	060	Fill of 060
062	064	Fill of 064
063	064	Fill of 064
064		Section cut of ditch 103
065	064	Fill of 064
066	065	Fill of 065
067		Cut of shallow pit
068	067	Fill of 067
069		Cut of stakehole
070	069	Fill of 069
071		Section cut of ditch 101
072	071	Fill of 071
073	071	Fill of 071
074	071	Fill of 071
075	071	Fill of 071
076	071	Fill of 071
077	071	Fill of 071
078	071	Fill of 071
079	071	Fill of 071
080	071	Fill of 071
081	071	Fill of 071
082	071	Fill of 071
083		Section cut of ditch 101
084	083	Upper fill of 083
085	083	Fill of 083
086	083	Fill of 083
087	083	Fill of 083
088	083	Base fill of ditch 083
089		Section cut of ditch 101
090	089	Fill of 089
091	089	Fill of 089
092	089	Fill of 089
093	089	Fill of 089
094	089	Fill of 089
095	089	Fill of 089
096	089	Secondary upper fill of 089
097		Section cut of ditch 101
098	097	Upper fill of 097
099	097	Fill of 097
100	097	Fill of 097
101		Plan cut of enclosure 101
102	101	General fill of 101
103		Plan cut of ditch 103
104	103	General fill of 103
105		Plan cut of ditch 105
106	105	General fill of 105
107		Plan cut of ditch 107
108	107	General fill of 107
109		Plan cut of ditch 109
110	109	General fill of 109

Context	Cut	Description
111		Plan cut of ditch 111
112	111	General fill of 111
113		Plan cut of ditch 113
114	113	General fill of ditch 113
115	097	Lower fill of 097
116		Section cut of ditch 101
117	116	Upper fill of 116
118	116	Fill of 116
119	116	Fill of 116
120	116	Fill of 116
121	116	Fill of 116
122	116	Base fill of 116
123		Section cut of ditch 103
124	123	Primary fill of 123
125	123	Upper fill of 123
126		Section cut of ditch 113
127	126	Upper fill of 126
128	126	Middle fill of 126
129	126	Top fill of 126
130		Section cut of ditch 111
131	130	Fill of 130
132		Section cut of ditch 111
133	132	Fill of 132
134	132	Fill of 132
135	132	Fill of 132
136		Section cut of ditch 111
137	136	Fill of 136
138	141	Fill of 141
139		Section cut of ditch 113
140	139	Fill of 139
141		Section cut of ditch 111
142		Plan cut of ditch 142
143		Section cut of ditch 142
144	143	Fill of 143
145		Section cut of ditch 142
146	145	Fill of section 145
147		Cut of pit 147
148	147	Upper fill of 147
149	147	Primary fill of 147
150		Section cut of ditch 111
151	150	Fill of 150
152	150	Fill of 150
153	150	Fill of 150
154	150	Fill of 150
155		Section cut of ditch across 113
156	155	Fill of 155
157	160	Upper fill of 160
158	160	Lower fill of 160
159		Burnt layer
160		Section cut of ditch 161
161		Plan cut of ditch 161
162	161	General fill of 161
163		Section cut of ditch 161
164	163	Fill of 163
165		Section cut of ditch 101
166	165	Fill of 165
167	165	Fill of 165

Context	Cut	Description
168	165	Fill of 165
169		Not used
170		Section cut of ditch 101
171	170	Upper fill of 170
172	170	Fill of 170
173	170	Fill of 170
174	170	Fill of 170
175	170	Fill of 170
176	170	Fill of 170
177	170	Fill of 170
178	170	Fill of 170
179		Section cut of ditch 101
180	179	Fill of 179
181	179	Fill of 179
182	179	Fill of 179
183	179	Fill of 179
184	179	Fill of 179
185	179	Fill of 179
186	179	Fill of 179
187		Section cut of ditch 101
188	187	Fill of 187
189	187	Fill of 187
190	187	Fill of 187
191	187	Fill of 187
192	187	Fill of 187
193	187	Fill of 187
194	187	Fill of 187
195	187	Fill of 187
196		Cut of modern pit
197	196	Fill of 196
198		Plan cut of modern pit
199	198	Fill of 198
200		Section cut of pit 198
201	200	Fill of 200
202	200	Fill of 200
203	200	Fill of 200
204	200	Fill of 200
205	200	Fill of 200
206	200	Fill of 200
207	200	Fill of 200
208	200	Fill of 200
209	200	Fill of 200
209	200	Fill of 200
210	200	Fill of 200
211	229	Fill of 229
212	229	Fill of 229
213		Section cut of pit 198
214	213	Fill of 213
215	213	Fill of 213
216	213	Fill of 213
217	213	Fill of 213
218	213	Fill of 213
219	213	Fill of 213
220	213	Fill of 213
221		Section cut of ditch 113
222	221	Fill of 221
223		Cut of field drain

Context	Cut	Description
224	224	Fill of field drain 223
225		Section cut of ditch 101
226	225	Fill of 225
227	225	Fill of 225
228	225	Fill of 225
229		Section cut of pit 198
230	229	Fill of 229
231	229	Fill of 229
232		Section cut of ditch 161
233	232	Fill of 232
234	229	Fill of 229
235		Section cut of ditch 101
236	235	Fill of 235
237	235	Fill of 235
238	235	Fill of 235
239	235	Fill of 235
240	235	Fill of 235
241	235	Fill of 235
242	235	Fill of 235
243	235	Fill of 235
244		Section cut of ditch 101
245	244	Fill of 244
246	244	Fill of 244
247	244	Fill of 244
248	244	Fill of 244
249	244	Fill of 244
250	244	Fill of 244
251	244	Fill of 244
252	244	Fill of 244
253	244	Fill of 244
254	244	Fill of 244
255		Section cut of ditch 101
256	255	Fill of 255
257	255	Fill of 255
258	255	Fill of 255
259	255	Fill of 255
260	255	Fill of 255
261	255	Fill of 255
262	255	Fill of 255
263	255	Fill of 255
264	255	Fill of 255
265	255	Fill of 255
266	255	Fill of 255

APPENDIX 2: Photographic Register

Film 1: Colour

No	Description	From	Conditions
1-4	General working shots	-	sun
5-6	NW corner of ditch 101 pre-excavation	SE	Sun
7-8	Section 009/012 showing enclosure 101 and ditch 103	S	overcast
9-10	Section 032/036 across ditch 103	S	overcast
11-12	Section 045 across ditch 101	WSW	drizzle
13-14	SW corner of ditch 101 pre-excavation	E	overcast
15-16	Section 064/060 across ditch 103	NW	sun
17-18	Section 054 across ditch 103	NW	sun
19-20	Section 054 across ditch 103	S	overcast
21-24	Section 083 along ditch 101	S	overcast
25-26	Section 089 across ditch 101	WNW	sun
27-28	Section 126 across ditch 113	S	patchy
29-30	Section 123 across ditch 103	S	sun
31-32	Section 130 across ditch 111	SW	overcast

Film 2: Colour

No	Description	From	Conditions
1-2	Section 097 across ditch 101	N	sun
3-4	Section 132 across 111	SE	overcast
5-6	Terminus of ditch 111 – pre-excavation	E	overcast
7-8	Section 136 across ditch 111	W	overcast
9-10	NE end of ditch 111 – general view	SW	sun
11-12	Section 141/139 across ditch 111/113	S	sun
13-14	Section 139 across ditch 113	W	overcast
15-16	Section 143 across ditch 142	SW	overcast
17-18	Pit 147 east facing section	E	overcast
19-20	Longitudinal section 150 of ditch 101	S	sun
21-22	Longitudinal section 150/155 of ditch 101/113	W	sun
23-24	Section 165 across 101	W	overcast
25-26	Section 163 across ditch 161	NE	overcast
27-28	Section 160 across ditch 161	SW	overcast
29-30	Section 170 across ditch 101	S	rain
31-32	Section 187 across ditch 101	S	rain
33-34	Section of 179 across ditch 101	E	rain
35-36	Section 165 across ditch 101	E	overcast
37	Section 213 across pit 198	W	overcast

Film 3: Colour

No	Description	From	Conditions
1-2	Section 213 across pit 198	W	overcast
3-6	Section 200 across pit 198	E	overcast
7-8	Section 221 across ditch 113	S	overcast
9-10	Section 235 across ditch 101	N	overcast
11-12	General view of pit 198 between terminus of ditch 101	E	sun
13-14	General view of pit 198 between terminus of ditch 101	W	sun
15-16	Section of 244 across ditch 101	N	overcast
17-18	Section 255 across ditch 101	E	overcast
19-36	General post-ex site shots	Various	

Film 1: Black & White

No	Description	Taken from	Conditions
1-4	General working shots	-	sun
5-6	NW corner of ditch 101 pre-excavation	SE	Sun
7-8	Section 009/012 showing enclosure 101 and ditch 103	S	overcast
9-10	Section 032/036 across ditch 103	S	overcast
11-12	Section 045 across ditch 101	WSW	drizzle
13-14	SW corner of ditch 101 pre-excavation	E	overcast
15-16	Section 064/060 across ditch 103	NW	sun
17-18	Section 054 across ditch 103	NW	sun
19-20	Section 054 across ditch 103	S	overcast
21-24	Section 083 along ditch 101	S	overcast
25-26	Section 089 across ditch 101	WNW	sun
27-28	Section 126 across ditch 113	S	patchy
29-30	Section 123 across ditch 103	S	sun
31-32	Section 130 across ditch 111	SW	overcast
33-34	Section 097 across ditch 101	N	sun
35-36	Section 130 across ditch 111	-	overcast

Film 2: Black & White

No	Description	Taken from	Conditions
1-2	Terminus of ditch 111 – pre-excavation	E	overcast
3-4	Section 136 across ditch 111	W	overcast
5-6	NE end of ditch 111 – general view	SW	sun
7-8	Section 141/139 across ditch 111/113	S	sun
9-10	Section 139 across ditch 113	W	overcast
11-12	Section 143 across ditch 142	SW	overcast
13-14	Pit 147 east facing section	S	overcast
15-16	Longitudinal section 150 of ditch 101	S	sun
17-18	Longitudinal section 150/155 of ditch 101/113	W	sun
19-20	Section 165 across 101	W	overcast
21-22	Section 163 across ditch 161	NE	overcast
23-24	Section 160 across ditch 161	SW	overcast
25-26	Section 170 across ditch 101	S	rain
27-28	Section 187 across ditch 101	S	rain
29-30	Section of 179 across ditch 101	E	rain
31-32	Section 165 across ditch 101	E	overcast
33-34	Section 213 across pit 198	W	overcast
35-36	Section 200 across pit 198	E	overcast

Film 3: Black & White

No	Description	Taken from	Conditions
1-2	Section 221 across ditch 113	S	overcast
3-4	Section 235 across ditch 101	N	overcast
5-6	General view of pit 198 between terminus of ditch 101	E	sun
7-8	General view of pit 198 between terminus of ditch 101	E	sun
9-10	Section of 244 across ditch 101	E	sun
11-12	Section 255 across ditch 101	E	overcast
13-36	General post-ex site shots	Various	

Digital photos

No	Description	Taken from	Conditions
1-2	NW corner of ditch 101 pre-excavation	SE	Sun
3-4	Section 032/036 across ditch 103	S	overcast
5-6	Section 064/060 across ditch 103	NW	sun
7-8	SW corner of ditch 101 pre-excavation	-	overcast
9-10	Section 054 across ditch 103	NW	sun
11-12	Section 071 across ditch 101	S	overcast
13-14	Section 083 along ditch 101	S	overcast
15-16	Clay pipe at NW corner of 101	W	sun
17-18	Section 089 across ditch 101	WNW	sun
19-20	NW corner of 101 – general view	various	overcast
21-22	Section 089 across ditch 101	W	overcast
23-24	Section 126 across ditch 113	S	patchy
25-26	Section 123 across ditch 103	S	sun
27-28	Section 097 across ditch 101	N	sun
29-30	Section 136 across ditch 111	W	overcast
31-32	NE end of ditch 111 – general view	SW	sun
33-34	Section 141/139 across ditch 111/113	S	sun
35-36	Section 139 across ditch 113	W	overcast
37-38	Section 143 across ditch 142	SW	overcast
39-40	Pit 147 east facing section	E	overcast
41-42	Longitudinal section 150 of ditch 101	W	sun
43-44	Longitudinal section 150/155 of ditch 101/113	S	sun
45-46	Section 165 across 101	W	overcast
47-48	Section 163 across ditch 161	NE	overcast
49-50	Section 160 across ditch 161	SW	overcast
51-52	Section 170 across ditch 101	S	rain
53-54	Section 187 across ditch 101	S	rain
54-55	Section of 179 across ditch 101	E	rain
56-57	Section 165 across ditch 101	E	overcast
58-59	Section 213 across pit 198	W	overcast
60-61	Section 200 across pit 198	E	overcast
62-63	Section 221 across ditch 113	S	overcast
64-65	General view of pit 198 between terminus of ditch 101	E	sun
66-67	General view of pit 198 between terminus of ditch 101	W	sun
68-69	Section of 244 across ditch 101	N	overcast
70-71	Section 255 across ditch 101	E	ovecast

APPENDIX 3: Drawings Register

No	Description / Section	Sec / Plan	Scale
IA-ID	General pre-ex plan in four parts showing all features identified	Plan	1:100
2	NW facing section 003 across ditch 107	Section	1:20
3	NW facing section 005 across ditch 105	Section	1:20
4	SE facing section 026 across ditch 107	Section	1:20
5	SE facing section 028 across ditch 105	Section	1:20
6	E facing half section 007 across ditch 105		
7	WSW facing longitudinal section (009/012) of ditch 101/103	Section	1:20
2.1	W facing section (015) across ditch 109	Section	1:20
8	S facing section of pit 018	Section	1:20
9	S facing section of pit 020	Section	1:20
10	E facing section of pit 022	Section	1:20
11	E facing section of pit 024	Section	1:20
12	S facing section (032/036) across ditch 103	Section	1:20
13	E facing section of pit 030	Section	1:20
14	E facing section 041 across ditch 109	Section	1:20
15	Half section plan of pit 030	Plan	1:20
16	N facing section of pit 043	Section	1:20
17	WSW facing longitudinal section (045) along ditch 101	Section	1:10
18	SE facing section of pit 049	Section	1:20
19.1	N facing section (054/060/064) across ditch 103	Section	1:20
19.2	W facing section (064) across ditch 103		
20	SW facing section of pit 058	Section	1:20
21	S facing section of pit 067	Section	1:20
22	S facing section of pit 069	Section	1:20
23	Mid-ex plan of pits 018, 020, 022, 024, 030, 043, 049, 058, 067 and 069	Plan	1:50
24	S facing section (071) across ditch 101	Section	1:20
25	Post-ex plan of ditch 103 junction	Plan	1:50
26	SW facing longitudinal section (085) along ditch 101	Section	1:20
27	WNW facing section (089) across ditch 101	Section	1:20
28	NW facing section (116) across ditch 101	Section	1:20
29	S facing section (123) across ditch 103	Section	1:20
30	S facing section (126) across ditch 113	Section	1:20
31	N facing section (097) across ditch 101	Section	1:20
32	SW facing section (130) across ditch 111	Section	1:20
33	Post-ex plan of NW corner of enclosure 101	Plan	1:50
34	S facing section (132) across ditch 111	Section	1:20
35	W facing section (137) across ditch 111	Section	1:20
36	NE terminus of ditch 111	Plan	1:50
37	S facing section (139) and W facing section of (140) of ditch 111/113	Section	1:20
38	W facing sections (150/155) through ditches 101/113	Section	1:20
39	SW facing section (143) across ditch 142	Section	1:20
40	NE terminus of ditch 142	Plan	1:50
41	NE facing section 145 across ditch 142	Section	1:20
42	S facing longitudinal section 150 along ditch 101	Section	1:20
43	Pit 43 , east facing section	Section	1:20
44	SW facing section (160) across ditch 161	Section	1:20
45	NE facing section (163) across ditch 161	Section	1:20
46	W facing section (165) across ditch 101	Section	1:20
47	N facing section (155) across ditch 113	Section	1:20
48	S facing section (170) across ditch 101	Section	1:20
49	E facing section (179) across ditch 101	Section	1:20
50	ESE facing section 187 across ditch 101	Section	1:20

No	Description / Section	Sec / Plan	Scale
51	Plan of SE corner of enclosure 101 showing junction with ditch 113	Plan	1:50
52	Plan of terminus of ditch (101) and edge of pit (198)	Plan	1:50
53	E facing section (200/209) across pit 198	Section	1:20
54	E facing section (225/229) of pit 198 and ditch 101	Section	1:20
55	W facing section (213) of pit 198	Section	1:20
56	S facing section (221) across ditch 113	Section	1:20
57	N facing section (235) across ditch 101	Section	1:20
58	Plan of slot 235/170 across ditch 101	Plan	1:20
59	N facing section (244) across ditch 101	Section	1:20
60	Plan 244/071 across ditch 101	Plan	1:50
61	E facing section (255) across ditch 101	Section	1:20
62	Plan of slot 255/089 across ditch 101	Plan	1:50

APPENDIX 4: Samples Register

Sample no.	Context	Feature	Comment	Size
1	047	101	Fill of section 045	2 bags
2	048	101	Primary fill of section 045	1 bag
3	N/A	N/A	Discarded	N/A
4	072	101	Fill of section 071	1 bag
5	073	101	Fill of section 071	1 bag
6	074	101	Fill of section 071	1 bag
7	075	101	Fill of section 071	1 bag
8	076	101	Fill of section 071	1 bag
9	077	101	Fill of section 071	1 bag
10	078	101	Fill of section 071	1 bag
11	079	101	Fill of section 071	1 bag
12	092	101	Fill of section 089	2 bags
13	093	101	Fill of section 089	2 bags
14	094	101	Fill of section 089	2 bags
15	095	101	Fill of section 089	0.5 bags
16	084	101	Fill of section 083	3 bags
17	085	101	Fill of section 083	3 bags
18	086	101	Fill of section 083	3 bags
19	087	101	Fill of section 083	3 bags
20	088	101	Fill of section 083	3 bags
21	099	101	Fill of section 097	2 bags
22	100	101	Fill of section 097	2 bags
23	115	101	Fill of section 097	3 bags
24	156	113	Fill of section 155	3 bags
25	153	101	Fill of section 150	3 bags
26	154	101	Fill of section 150	3 bags
27	176	101	Fill of section 170	1 bag
28	177	101	Fill of section 170	2 bags
29	178	101	Fill of section 170	2 bags
30	180	101	Fill of section 179	3 bags
31	228	101	Fill of section 225	
32	222	113	Fill of section 221	3 bags
33	219	198	Fill of section 213	3 bags
34	218	198	Fill of section 213	1 bag
35	034	103	Fill of section 032	3 bags

APPENDIX 5: Finds Register

Context	Rom pot		PM pot		CBM		Glass		Iron		Copper		Misc	Spotdate
	No.	Wt	No.	Wt	No.	Wt	No.	Wt	No.	Wt	No.	Wt		
surface	2	12							1	34				unstrat
cleaning	4	9	4	63	6	26	1	3			1	6	1 bone (2g)	unstrat
006			1	1										19th/20th c.
008			2	2									1 burnt coal (1g)	19th/20th c.
019							1	2						20th c.
021					2	1							1 slag (1g), 2 leather (26g)	PMed
031			1	1									1 bone (2g)	19th/20th c.
048									1	23				Roman??
055	1	3	1	4										19th c.?
058			2	1										19th/20th c.
062	2	7												Roman
086													1 lime mortar (9g)	PMed
090			1	15									1 unident cast metallic object (20g)	19th/20th c.
094	5	11												Roman
096	1	40												2nd-4th c.
100													1 flint flake (12g)	Prehistoric
102	5	24												Roman
156	10	81							1	5			1 ?slag (or stone) (50g)	Roman
159													16 slag/charcoal (21g)	Recent?
167	1	31												Roman
168	2	301												Roman
171					5	54								PMed
178					1	73								?
189	4	16												Roman
201			9	32			3	95					5 clay pipe (9g), 2 leather (19g)	L.18th-E.19th c.
203													8 wood (710g)	PMed/Modern
228	1	359												Roman
	2	5												Roman
Total	40	899	21	119	14	154	5	100	3	62	1	6		

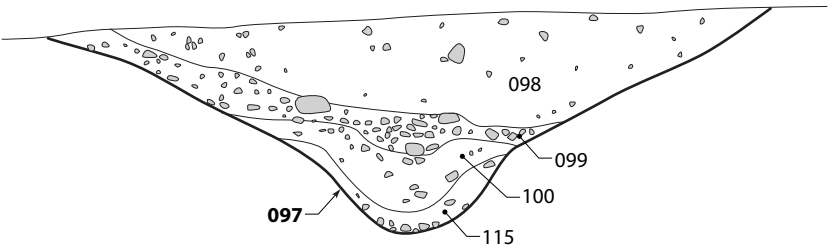


Figure 2 - Section 097, North Facing

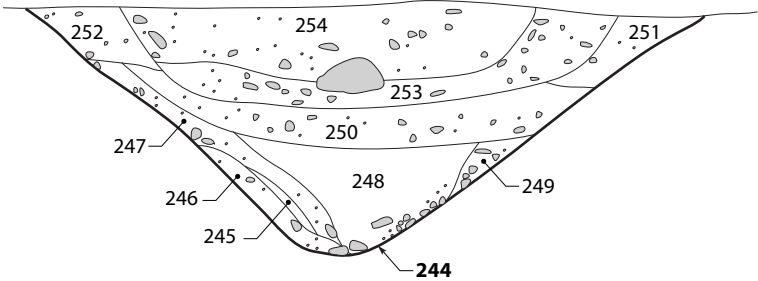


Figure 3 - Section 244, North Facing

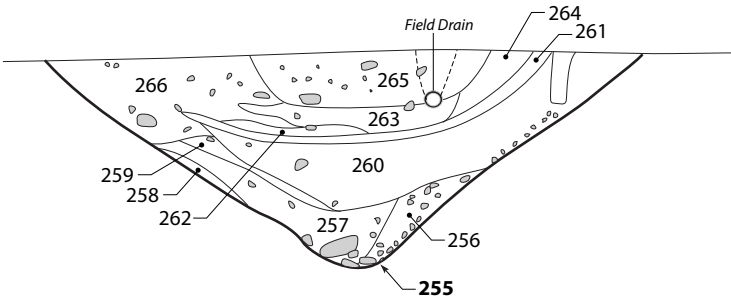


Figure 4 - Section 255, East Facing


Key:
 Stones

Fig. No: 2-4 Revision: A Client: Story Construction Ltd.

Title:
Sections

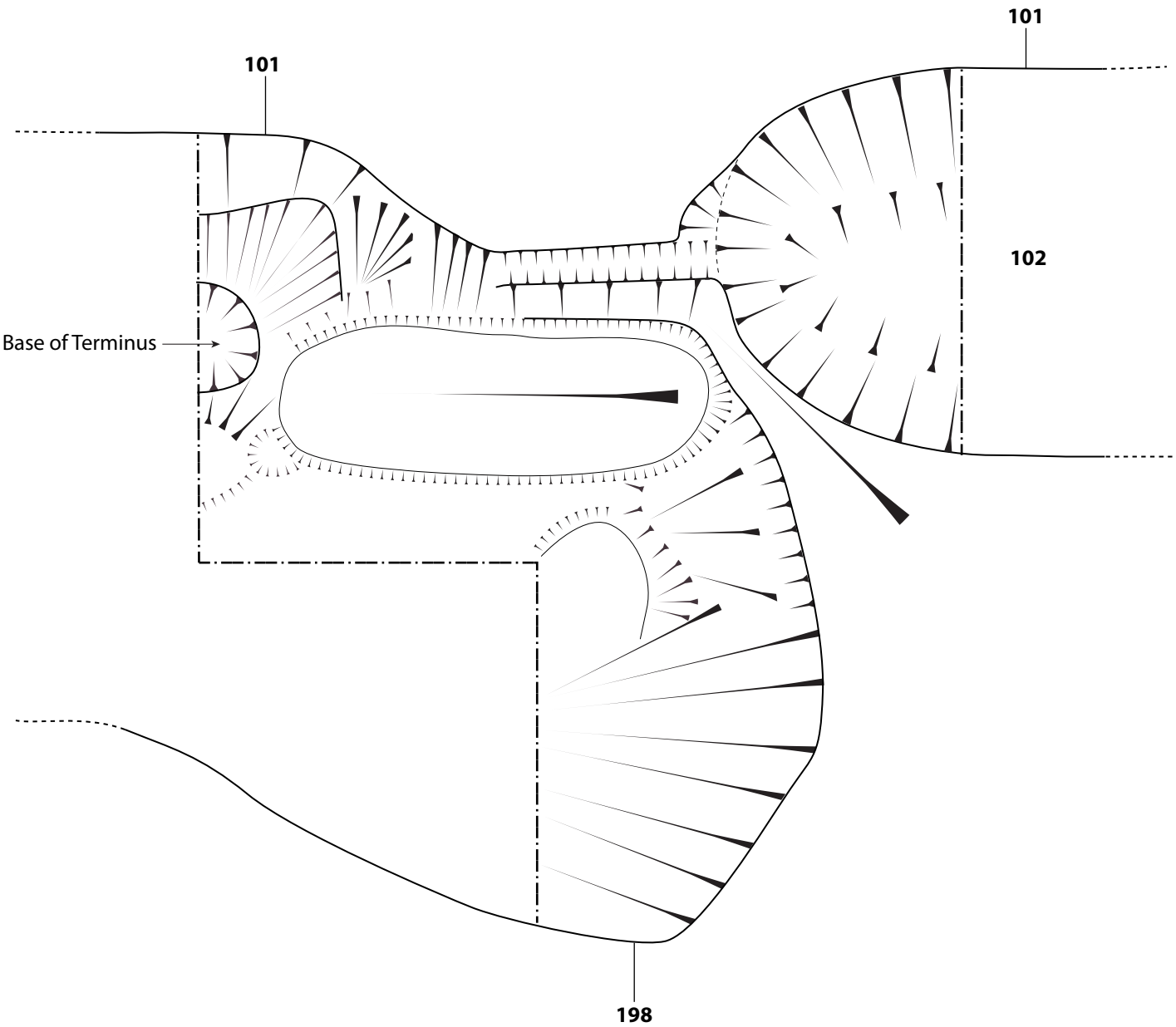
Project:
Land off Burgh Road, Carlisle, Cumbria
Archaeological Excavation

CFA
ARCHAEOLOGY LTD
CFA ARCHAEOLOGY LTD
The Old Engine House
Eskmills Park
Musselburgh
East Lothian, EH21 7PQ
t: 0131 273 4380
f: 0131 273 4381
e: info@cfa-archaeology.co.uk
w: www.cfa-archaeology.co.uk

Scale: 1:40 50 cm 0 1 m

Drawn by: LW

Page No:




Key:

Stones

Scale: 1:50 50 cm 0 1 m

Fig. No:	5	Revision:	A	Client:	Story Construction Ltd.
Title:	Plan of entranceway into enclosure 101				
Project:	Land off Burgh Road, Carlisle, Cumbria Archaeological Excavation				



CFA
ARCHAEOLOGY LTD

CFA ARCHAEOLOGY LTD
The Old Engine House
Eskmills Park
Musselburgh
East Lothian, EH21 7PQ

t: 0131 273 4380
f: 0131 273 4381
e: info@cfa-archaeology.co.uk
w: www.cfa-archaeology.co.uk

Drawn by: LW

Page No:

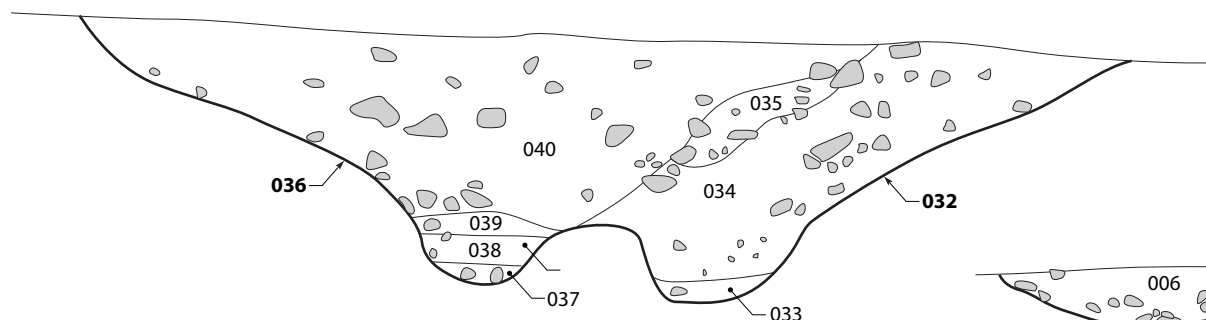


Figure 6 - Section 032/036, Southeast Facing

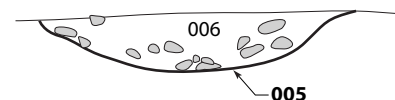


Figure 8 - Section 005, Southeast Facing

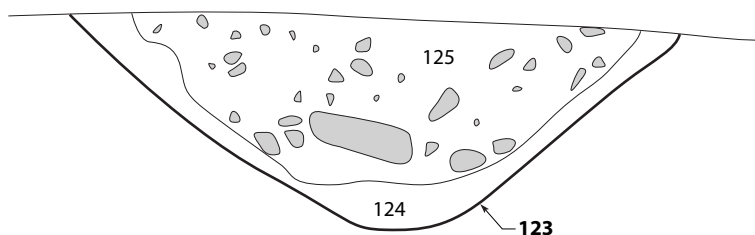


Figure 7 - Section 123, Southeast Facing

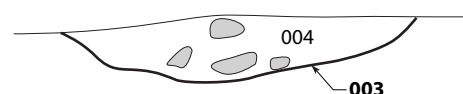


Figure 9 - Section 003, Northwest Facing

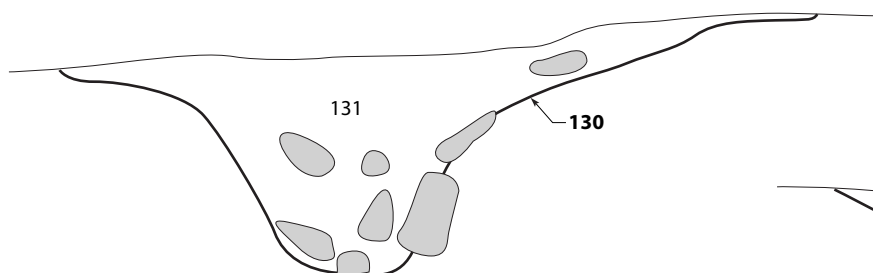


Figure 11 - Section 130, Southwest Facing

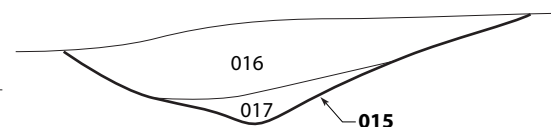


Figure 10 - Section 015, West Facing

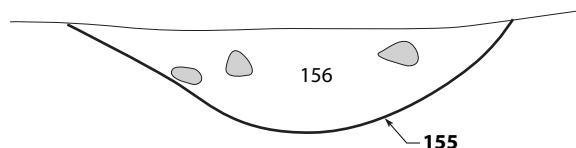


Figure 12 - Section 155, North Facing

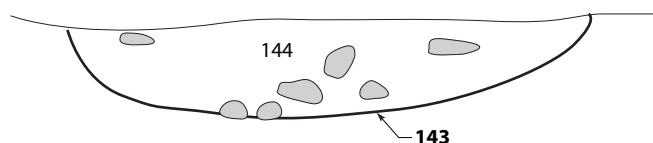


Figure 13 - Section 143, Southwest Facing

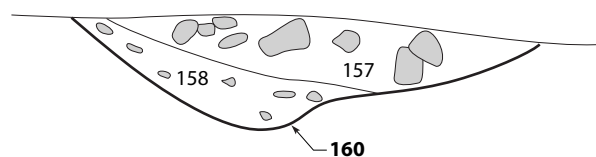


Figure 14 - Section 160, Southwest Facing

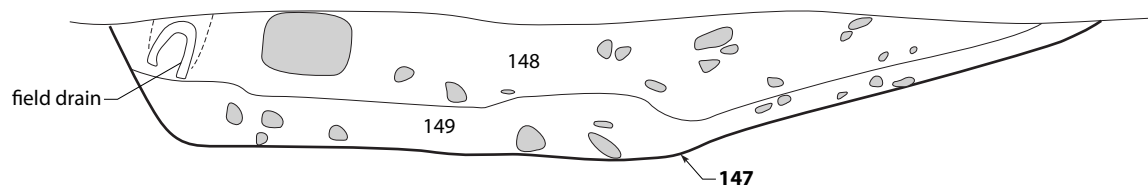


Figure 15 - Section 147, East Facing

Key:

Stones

Scale: 50 cm 0 50 cm

Fig. No:

6-15

Revision:

A

Client:

Story Construction Ltd.

Title:

Sections

Project:

Land off Burgh Road, Carlisle, Cumbria
Archaeological Excavation



CFA ARCHAEOLOGY LTD.
The Old Engine House
Eskmills Park
Musselburgh
East Lothian, EH21 7PQ

t: 0131 273 4380
f: 0131 273 4381
e: info@cfa-archaeology.co.uk
w: www.cfa-archaeology.co.uk

Drawn by:

LW

Page No: