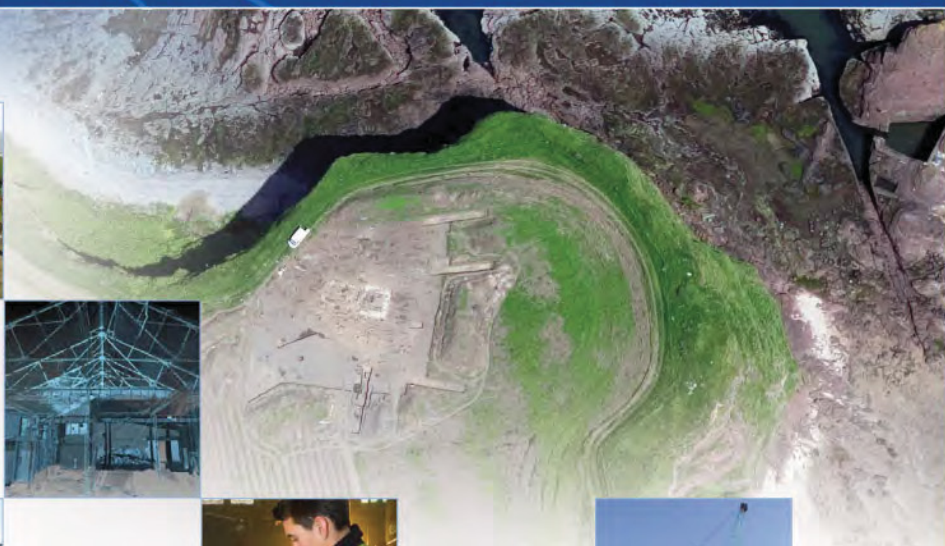


Carlogie Road, Carnoustie

Evaluation: Data Structure Report

AOC 21084
October 2008



ARCHAEOLOGY

HERITAGE

CONSERVATION

Carlogie Road, Carnoustie Archaeological Evaluation

On Behalf of:	DJ Laing Group Laing House Panmure Industrial Estate Carnoustie Angus DD7 7NP
National Grid Reference (NGR):	NO 563 360
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ABSTRACT

This report documents the results of an archaeological evaluation as part of the Site Investigation Works on farmland to the north of Carnoustie. The evaluation comprised the excavation of 39 trenches across the site. All the trenches were excavated down to natural alluvial deposits with a large number of tile and rubble field drains recorded. A number of shallow linear channels and ditches plus a few pits were recorded across the site, the majority of which seemed to be associated with agricultural activity. Artefacts were only recovered from four of the recorded features. One of the main ditches recorded was found in a number of the trenches, the fill of which included a number of sherds of 19th century pottery. Two possible hammerstones were recovered from two separate pits and two fragments of abraded red ceramic were recovered from within the fill of a ditch recorded at the southern end of the site. At least three of the trenches located a field boundary ditch recorded on the 1st Edition Ordnance Survey

1. INTRODUCTION

1.1 Background

- 1.1.1 AOC Archaeology Group was commissioned by DJ Laing Group to undertake a programme of archaeological works on the site of a proposed industrial development at Carlogie Road, Carnoustie. The archaeological works were designed to satisfy the requirements of Angus Council, which is advised on archaeological matters by Aberdeenshire Council Archaeology Service (ACAS). The works consisted of the excavation of a series of trial trenches covering 10% of the proposed development area and were conducted under the terms of a *Written Scheme of Investigation* (AOC 2008), approved by ACAS. The works were carried out in accordance with the principals inherent in NPPG 5 (SOEnd 1994) and PAN 42 (SOEnd 1994a). The work was undertaken between 15th & 26th September 2008, in variable weather conditions.

1.2 Location

- 1.2.1 The proposed development is located north of Carnoustie, Angus to the east of the A930, close to the Carlogie Hotel, centred on NGR: NO 563 360 (Figure 1). The site is bounded to the west by the A930 and to the east by a narrow B road. A small copse of trees formed part of the northern boundary to the site along with both the A930 and the B road. The area was divided into two fields by a low north/south aligned bank. Both fields had been recently under cultivation with the remains of the crop still present in some areas. The land was fairly flat lying, rising to approximately 50 m OD.

1.3 Archaeological Background

- 1.3.1 While there were no known archaeological features within the development area the wider landscape is known to contain cropmark archaeological features. The lower lying field to the immediate south of the development area contains a variety of cropmark sites some of which are possibly prehistoric in date. These include, a rectilinear enclosure (NMRS NO53NE 77), a ring-ditch (NMRS NO53NE 85) and a few possible pits (NMRS NO53NE 45 & 76) as well as remnants of later rig and furrow agriculture.

2. OBJECTIVES

- 2.1 The objectives of the archaeological works were:
- i) to determine the character, extent, condition, quality, date and significance of any archaeological remains within the defined subject area;
 - ii) should significant archaeological deposits be discovered, to prepare a mitigation strategy compliant with NPPG 5 and PAN 42.

3. METHOD

- 3.1 The evaluation was achieved through the excavation of linear trenches using an excavator equipped with a 2.5 m wide toothless ditching bucket. The trenches covered a 10% sample of the 16 ha development area totaling 16,000 m².
- 3.2 The trial trenching aimed to establish the extent, condition, character, quality and date of any archaeological features present. These trenches varied in length and were set on varying orientations. The precise location of the trenches was determined on receipt of service information and following consultation with ACAS. The original trench layout, as shown in the *WSI*, had to be altered in some areas in order to limit the amount of damage to the remaining crop that had not been removed from the fields.
- 3.3 Excavation was in shallow units/spits until the first significant archaeological horizon or drift was reached. Trial trenches were extended around a number of specific archaeological features to determine their lateral extent (while remaining within the development area). All machine excavation was supervised by an experienced field archaeologist.
- 3.4 All significant archaeological features were cleaned and fully defined. A sufficient number of all significant features, were excavated, sampled and recorded to determine their character, function, nature, date and significance.
- 3.5 All trial trenching was undertaken according to AOC Archaeology Group's standard operating procedures (AOC 2008, Appendix 7, 7.1 to 7.29).
- 3.6 The palaeoenvironmental strategy comprised the removal of two basic sample types for every hand-excavated context. As such every archaeological context will be sampled by this impartial and non-judgmental approach.
 - i) Routine Soil Samples; a representative 500g sample from every excavated soil context on site. This sample is used in the characterisation of the sediment, potentially through pollen analysis, particle size analysis, pH analysis, phosphate analysis and loss-on-ignition.
 - ii) Standard Bulk Samples; a representative 10 litre sample from every excavated soil context on site. This sample is used, through floatation sieving, to recover a sub-sample of charred macroplant material, faunal remains and artefacts.
- 3.7 The client was responsible for backfilling the trenches.
- 3.8 A digital photographic record of all the features investigated was taken along with a selection of general shots of the excavated trenches (Appendix 1).

- 3.9 A full record of each trench was recorded on pro-forma sheets and can be found in Appendix 2.
- 3.10 An abstract of this report will be presented in the Discovery and Excavation in Scotland publication (Appendix 3) and entered on the OASIS internet based pages.

4. RESULTS

4.1 Summary

- 4.1.1 A total of 39 evaluation trenches were excavated across the proposed development area (Figure 1; Plate 1). All the trenches exposed the orange/brown clayey-sand natural alluvial deposits, with occasional areas of soft sand or gravel rich deposits also exposed (Plates 2-3). All the features recorded within the trenches were cut into this deposit. A large number of the trenches included a variety of drains. These included narrow rubble drains, wide rubble drains filled with large rounded cobbles, red tile drains and modern plastic drains.

4.2 Post-Medieval Features

- 4.2.1 The most significant features recorded included a linear ditch and large pit in Trench 7 (Figure 3). This trench was located along the southern limits of the proposed development site. An east/west aligned linear ditch (cut [704] and fill (705)) was recorded close to the eastern end of the trench which was further exposed in extensions to the north side of Trench 7. The ditch was only 0.60 m wide and 0.15 m deep at the eastern end (Plate 5) as it ran out of the southern section edge. It was more substantial at the western end (Plate 6) where it eventually turned 90° to the south. At the west end the ditch (cut [706]) was 1.5 m wide and 0.35 m deep with a single mid-brown clayey-sand fill. Two fragments of abraded ceramic were recovered from this (Find No's 3 & 5). These ceramic fragments have been provisionally identified as post-medieval in date. Unfortunately the feature extends beyond the southern limit of the evaluation area so its full extent could not be investigated. A possible pit was also recorded in one of the trench extensions close to the ditch although this was only noticed during the surveying of the trenches and was not investigated further. The other feature recorded in Trench 7 was a large irregular shaped pit (cut [708] and fill (709); Figure 4). This pit was 1.50 m diameter and 0.50 m deep with a single mid-brown clayey-sand fill. A small hammerstone was recovered from the fill of this pit (Find No.1).

4.3 19th / 20th century Features

- 4.3.1 A number of the features revealed during the evaluation were considered to be of modern provenance associated with continued agricultural use of the land from the 19th Century onwards. The linear ditch recorded in Trench 4 (cut [400] and fill (401); Plate 4) was also recorded in Trench 10 (cut [1002] and fill (1003)), Trench 11 (Cut [1100] and fill (1101)) and probably Trench 14 (cut [1400] and fill (1401)) and Trench 16 (cut [1600] and fill (1601)). Fragments of 19th century ceramic

were recovered from the fill of this feature. The alignment of this ditch also seems to mirror that of a field boundary depicted on the 1st Edition Ordnance Survey (Figure 2).

- 4.3.2 In Trench 6 a number of features were recorded including two linear ditches (Cuts [600] and [604] and a small pit (cut [602] and Fill (603)). The pit was thought to be a stone hole the fill being very soft with no charcoal or artefacts identified. The two ditches were very shallow, one being 0.18 m deep the other 0.10 m deep. Given the ditches location close to the field boundary these were thought to be no more than deep furrows created from farm machinery turning at this point as they were not recorded in any other trenches. Both had a single mid-brown sandy-clay fill (601) and (605).
- 4.3.3 In Trench 9 a NW-SE aligned stone-lined culvert was recorded (cut [900]). This comprised un-worked stone blocks forming the sides and cap-stones (fill (901)) of a narrow culvert (Plate 7). This was not recorded in any of the other trenches.
- 4.3.4 Besides the 19th century ditch mentioned above, Trench 10 included a second linear ditch further to the north (cut [1000] and fill (1001)). This was a 'V' shaped ditch 0.5 m wide and 0.25 m deep with a single dark-brown silty-sand fill and aligned E-W. It is possible this was associated with the area of 19th / 20th century ceramic and glass recorded in Trench 11 immediately to the east.
- 4.3.5 Similarly the ditch recorded in both Trenches 14 and 16 was only 0.50 m wide and 0.20 m deep and seems to follow the boundary line depicted on the 1st edition Ordnance Survey.
- 4.3.6 In Trench 27 two shallow ditches (Cuts [2700] and [2702]) were recorded at the southern end of the trench. Both these NE-SW aligned ditches were approximately 0.75 m wide and 0.25 m deep being 20 m apart. Each had a single fill of dark-brown silty-sand (Fills (2701) and (2703)). A second small hammer stone (Find No. 4) was recovered from the fill (2701) of the southern most of these two ditches. Due to the crop in the field at this time the trenches could not be expanded to investigate these ditches further, although given their vicinity close to the field edge they may have been caused by farm machinery as was seen in Trench 6.

4.4 Undated Features

- 4.4.1 A linear ditch (Cut [2400]) was recorded in Trench 24 which did not appear in any of the surrounding trenches. Two sterile pits were recorded in Trench 29 (Figure 5) with the smaller of the two (cut [2900] and fill (2901); Plate 8) being 0.8 m in diameter and 0.27 m deep with a grey clayey-sand fill. The second pit 18 m to the south (cut [2902] and fill (2903); Plate 9) was much larger and was almost bowl shaped in profile, again with a grey clayey-sand fill with occasional stone inclusions. The trench was expanded around the larger pit to investigate the possibility of associated features but this provided negative results.

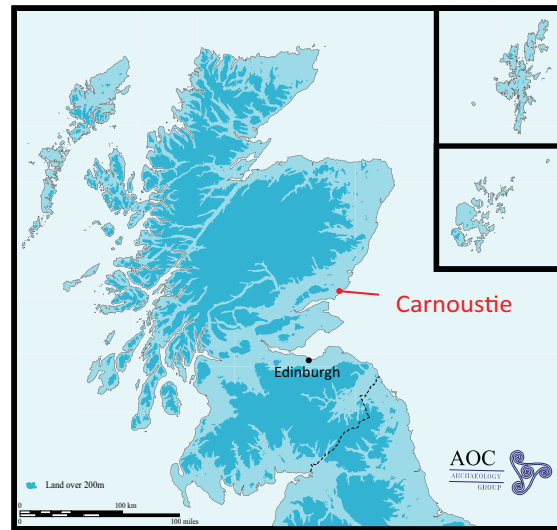
- 4.4.2 The final feature was linear ditch recorded in Trench 36. Again this was a fairly shallow ditch being 0.6 m wide and 0.26 m deep (cut [3600] and fill (3601); Plate 10). This east-west aligned ditch was 26.2 m long with both ends having been exposed during the evaluation. The fill was soft grey/brown sand with occasional small rounded stone inclusions. No dating material was recovered from the fill and no additional features associated were recorded.

5 CONCLUSION

- 5.1 Given the considerable number and distribution of trenches excavated over the site only a relatively limited number of features were present. The conclusion that this is representative of the development area as a whole is lent weight by the paucity of unstratified artefactual material recovered. The topsoil is of a depth that modern plough truncation would be presumed and hence the survival of durable artefacts, such as flint, would be expected as unstratified finds if archaeological features and deposits were present. Therefore the overall general lack of unstratified finds, barring a few post-medieval ceramic sherds and a single flint flake, can be interpreted as indicative of a general absence of any significant archaeological features within this location.
- 5.2 The majority of the features identified are considered to be of 19th / 20th century origin. Although these features are of archaeological interest it is considered that none are sufficiently significant to warrant further investigation. The ditch recorded in Trench 7, the fill of which produced the post-medieval ceramic shards, may be of relative interest although its location on the southern edge of the proposed development area may negate the need for further archaeological investigation.
- 5.3 In summary the evaluation has demonstrated that the development area does not appear to contain a density of significant archaeological features, with the few features present most likely of relatively recent date and therefore it is concluded that no further archaeological works are necessary. This recommendation will require the confirmation of ACAS.

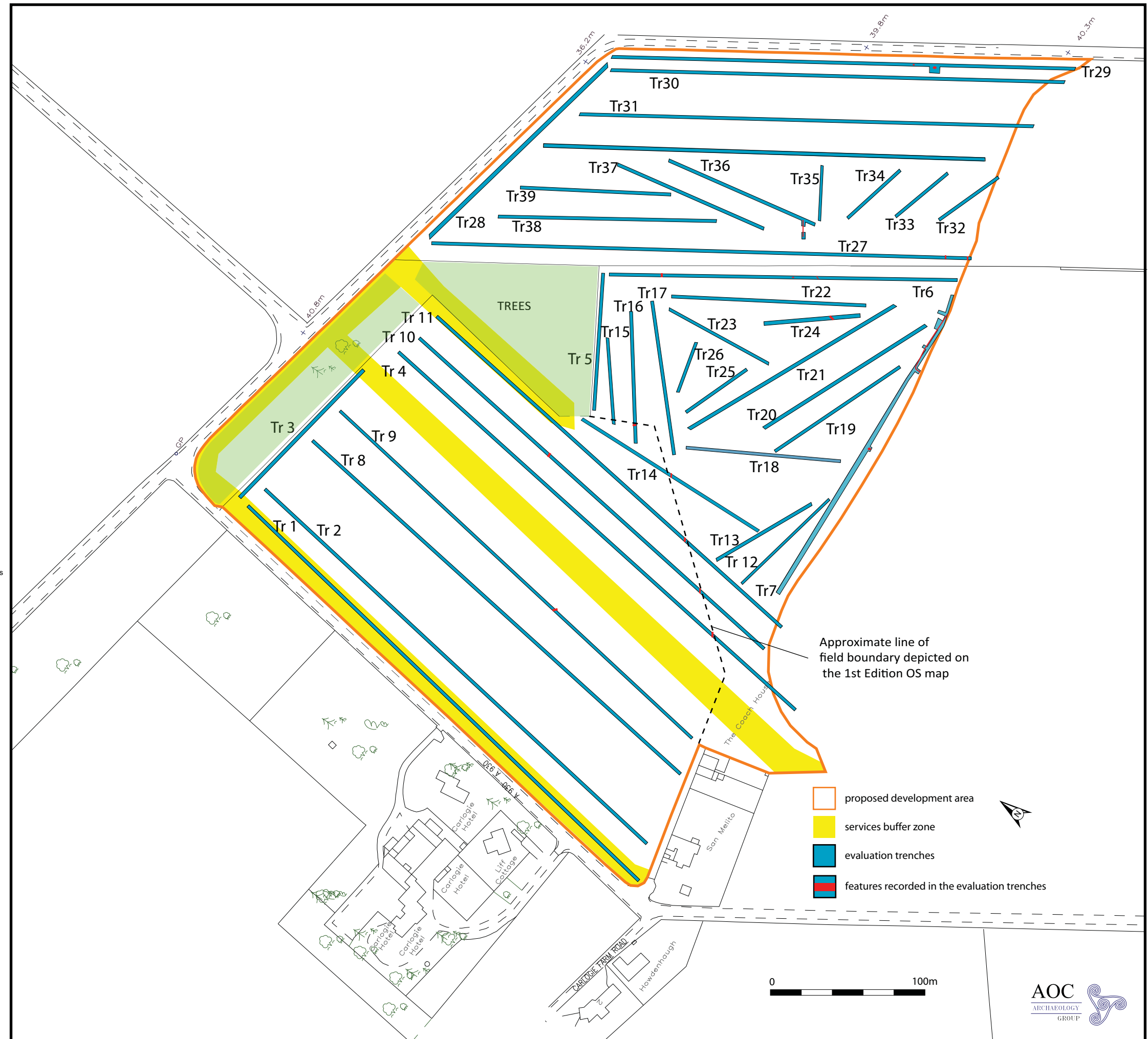
6 REFERENCES

AOC, 2008, Carlogie Road, Carnoustie, Angus: Archaeological Evaluation. *Written Scheme of Investigation*. Unpublished report for DJ Laing, AOC 21084



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Figure 1: Trench location plan



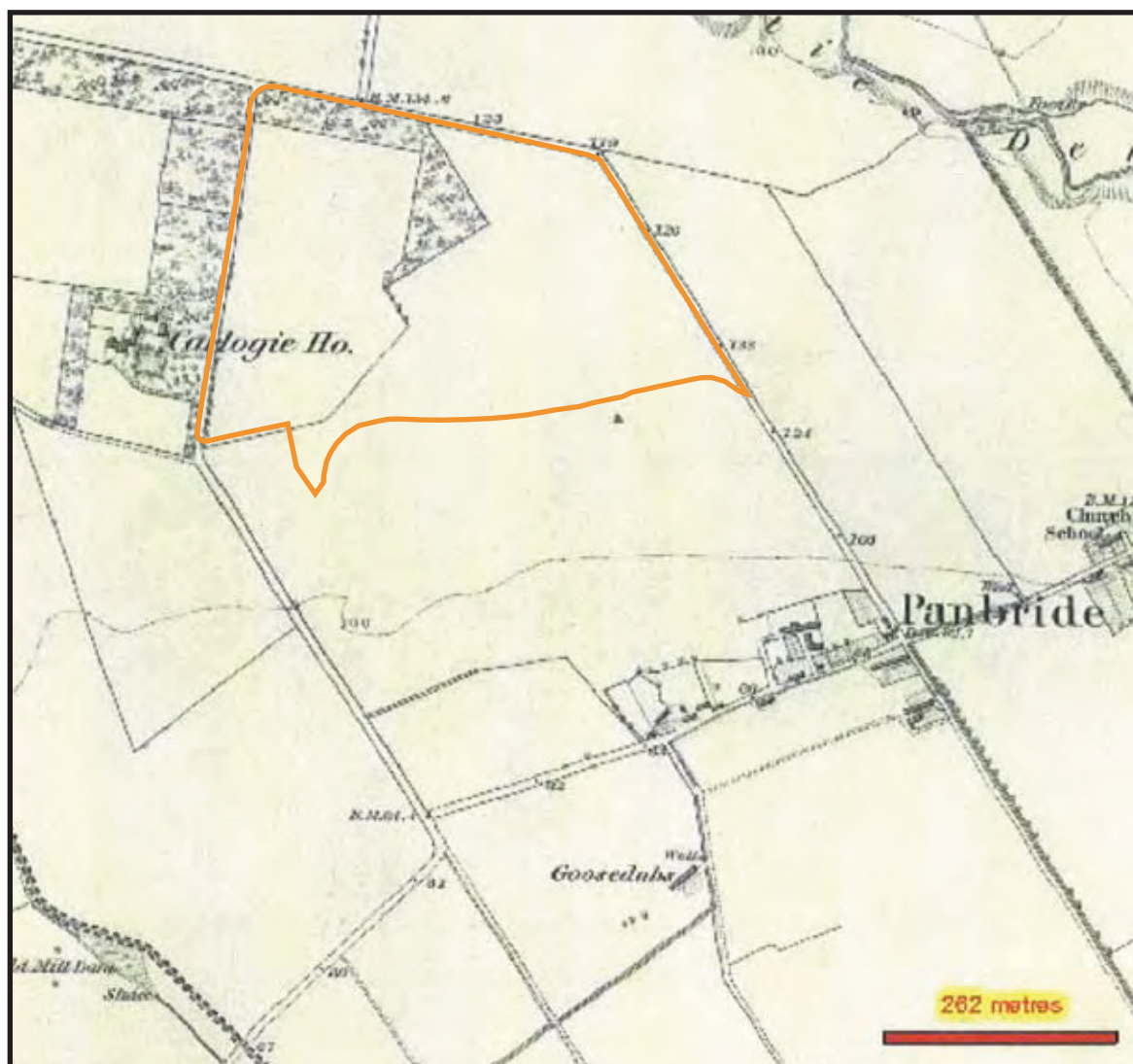


Figure 2: Extract of the 1st Edition Ordnance Survey map with the proposed development site highlighted

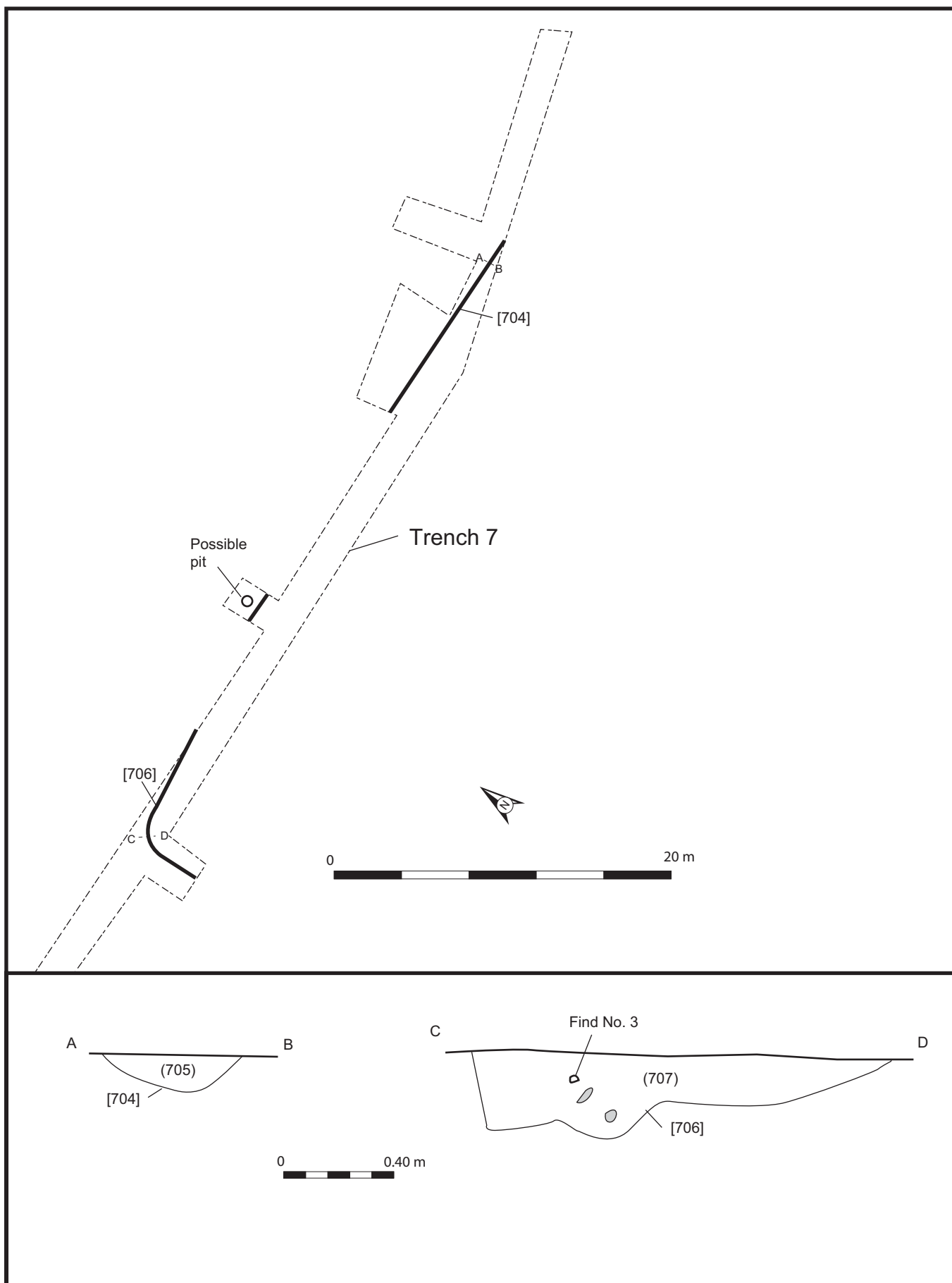


Figure 3: Detail of linear feature in Trench 7, showing the sections

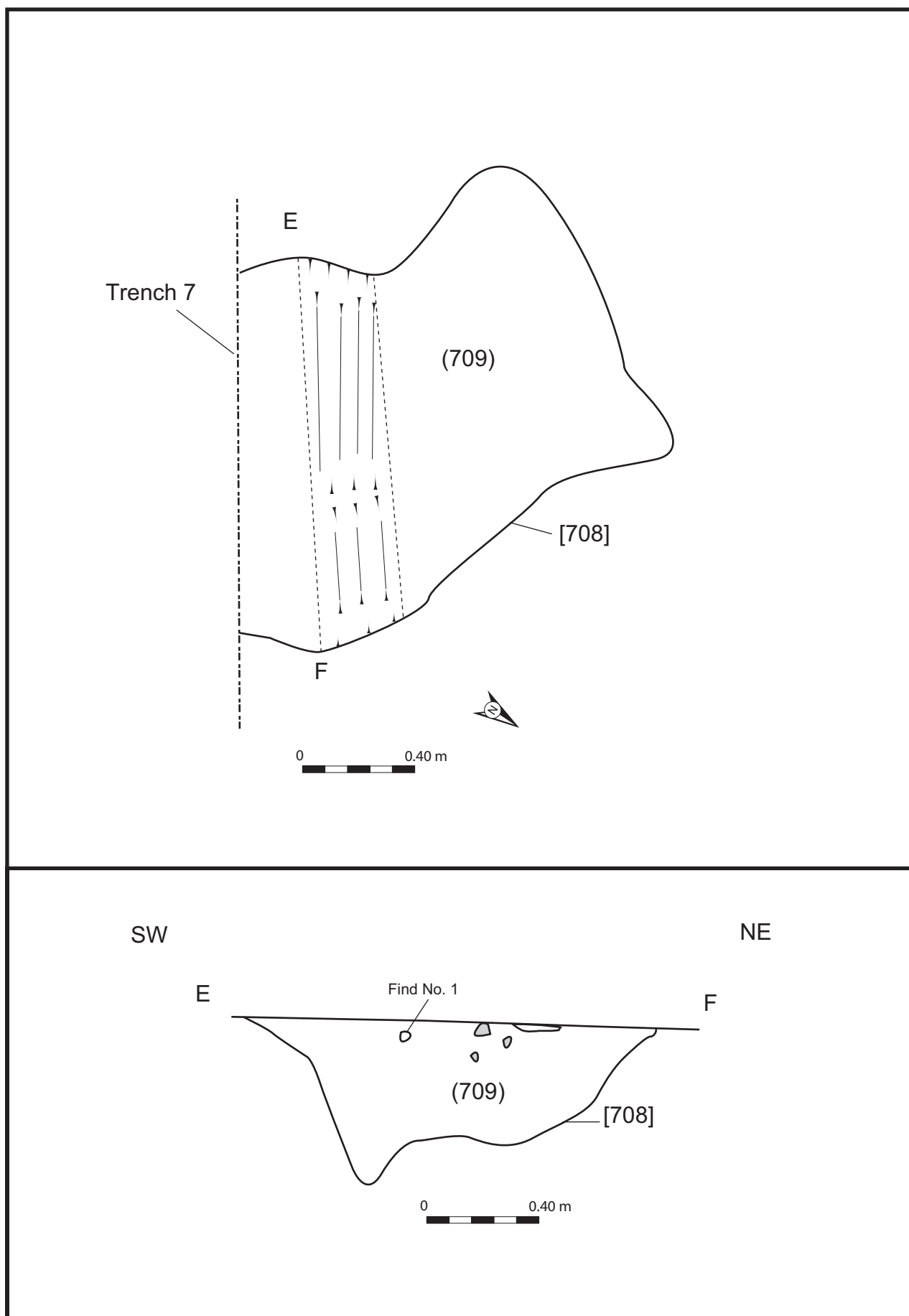


Figure 4: Plan and section of pit [708]



Plate 1: General view of the development area taken from the north-west



Plate 2: General view of Trench 2 from the north end

Plate 3: General view of Trench 8 from the south end





Plate 4: Detail of ditch cut [400]

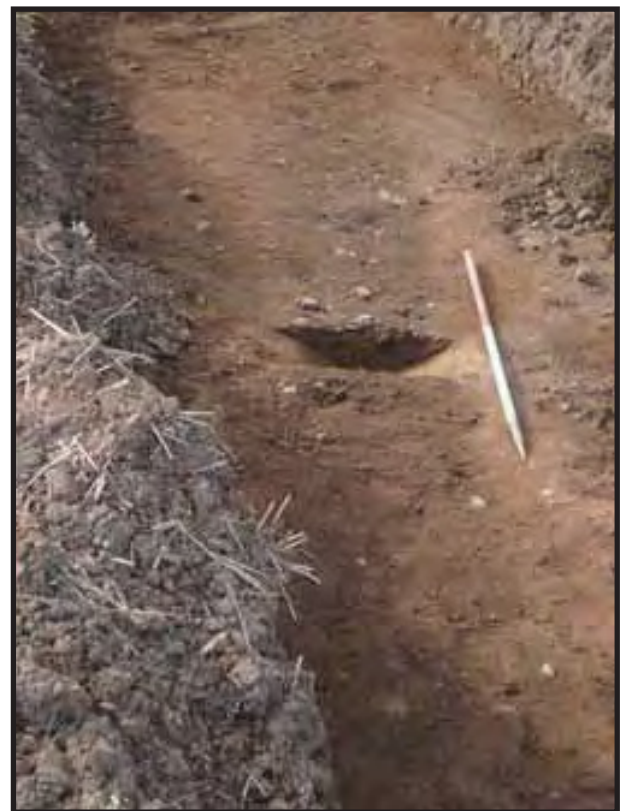


Plate 5: General view of ditch [704]
taken from the west



Plate 6: Detail of ditch [706] taken
from the north

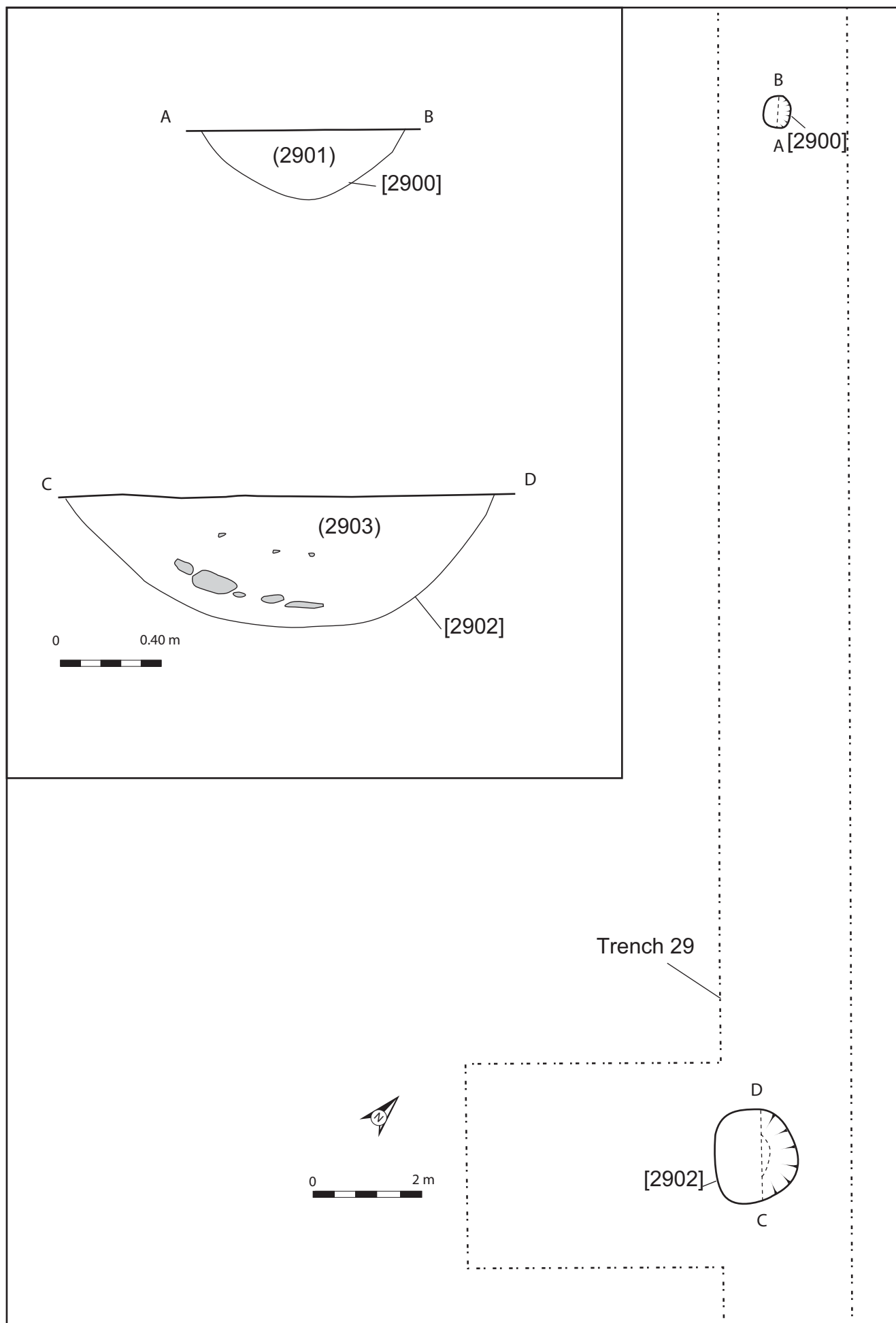


Figure 5: Plan of Trench 29 including sections of pits



Plate 7: Detail of stone culvert in Trench 9



Plate 8: Detail of pit cut [2900]



Plate 9: Detail of pit cut [2902]

Plate 10: View of ditch cut [3600]
from the east



Appendix 1: Photographic Register

Digital Photographic record

Frame No	Subject	From
1 – 3	Views of excavation areas prior to works	
4	General view of Tr 1 under excavation	N
5	General view of Tr 2 under excavation	N
6	View of E-W feature in Tr 2	N
7	General view of Tr 3 completed	E
8	General view of Tr 4 from mid-point	S
9	General view of Tr 4 completed	N
10	General view of Tr 5 completed	W
11	General view of Tr 6 completed	NW
12 – 13	General view of Tr 8 completed	N
14	General view of hay piles created by machine	
15	Stone culvert recorded in Tr 9	S
16	General view of Tr 9	S
17	General view of Tr 10	S
18	General view of Tr 11	S
19	General view of Tr 12	SEE
20	General view of Tr 13	NWW
21	General view of Tr 14	S
22	General view of Tr 15	W
23	Feature [400]	S
24	Feature [400]	E
25-27	West facing section of cut [400]	E
28	Feature [600]	SW
29	North facing section of cut [600]	N
30	Feature [602]	SW
31	North facing section of cut [602]	N
32	Feature [604]	E
33	West facing section of cut [604]	W
34	Features [700] and [702]	N
35	Linear feature [703]	SE
36	South facing section of cut [700]	S
37	South facing section of cut [702]	S
38	Linear feature [704]	N
39	North facing section of cut [704]	N
40	Pit feature [708]	N
41	North facing section of cut [708]	N
42	Culvert feature [900]	W
43	West facing section of culvert [900]	W
44-45	Linear ditch in Tr 10	W
46-47	Linear feature in Tr 14	W
48	Linear feature in Tr 16	E
49-50	Not assigned	
51	View of pit 3600	E

52	View of pit [2900]	W
53	View of pit [2902]	N
54-55	East facing section of pit [2902]	E
56-57	View of pit [2902] after trench section excavated	E
58-59	Linear ditch in Tr 36	W
60-61	Ditch in Tr 7 as it turns to the south	E
62-63	Ditch in Tr 7 as it turns to the south	N
64	Ditch [706] in the extension to Tr 7	SE
65-66	Ditch [706] in the extension to Tr 7	E
67-68	Detail of possible pit to north of ditch [706]	S
69-71	General view of evaluation area	

Appendix 2: Evaluation Trench Record

Trench No:	1
Alignment:	N-S
Total length:	345 m
Excavated from:	N
Features:	20 m - 60 m modern linear drain feature 339 m – 340 m Rubble field drain aligned E-W
Description:	Between 0.34 – 0.45 m of topsoil (dark brown silty sand with occasional small stone inclusions. Subsoil was coarse orange sand with occasional large stones and occasional stone holes and patches of finer sand. No significant archaeological features or artefacts were recorded.
Trench No:	2
Alignment:	N-S
Total length:	340 m
Excavated from:	N
Features:	10 m tile field drain aligned N-S 335 m rubble field drain aligned E-W
Description:	Between 0.31 m and 0.43 m of topsoil over natural sand deposits as Tr.1. Subsoil was coarse orange sand with occasional large stones and occasional stone holes and patches of finer sand. No significant archaeological features or artefacts were recorded.
Trench No:	3
Alignment:	E-W
Total length:	118 m
Excavated from:	W end
Features:	0-40 m Linear drain along north side of trench Number of N-S aligned tile drains
Description:	Between 0.20 m and 0.28 m of topsoil over natural sand deposits as Tr.1. Subsoil was coarse orange sand with occasional large stones and occasional stone holes. No significant archaeological features or artefacts were recorded.
Trench No:	4
Alignment:	N-S
Total length:	340 m
Excavated from:	N
Features:	123 m 0.5 m wide drain aligned E-W 196 m 0.5 m wide rubble field drain aligned E-W 221 m NE-SW aligned modern linear ditch (cut [400] and fill (401)) 0.8 m wide and 0.4 m deep, as seen in Tr.10 and Tr.11 260 m – 268 m NE-SW aligned linear ditch
Description:	Between 0.28 m and 0.37 m of topsoil over natural sand deposits. Subsoil was coarse orange clayey sand with occasional large stones and occasional stone holes and patches of finer sand.
Trench No:	5
Alignment:	NE-SW
Total length:	91 m

Excavated from: SW
 Features: 25.5 m N-S aligned rubble field drain
 59 m N-S aligned rubble field drain
 75 m N-S aligned rubble field drain
 64 m N-S aligned tile drain
 86 m N-S aligned tile drain
 Description: Between 0.40 m and 0.51 m of topsoil over natural sand deposits. Subsoil was course orange/brown clayey sand with occasional large stones and occasional stone holes and patches of finer sand. No significant archaeological features or artefacts were recorded.

Trench No: 6
 Alignment: NW-SE
 Total length: 230 m
 Excavated from: NW
 Features: 27 m – 30 m Curvilinear feature [600] & (601)
 87 m small pit 0.25 m diameter and 0.25 m deep [602] & (603)
 105 m to end – NW-SE aligned field drain
 151 m Rubble field drain aligned E-W
 159 m Rubble field drain aligned E-W
 166 m Rubble field drain aligned NE-SW
 Shallow linear ditch aligned NE-SW 0.6 m wide and 0.4 m deep with a v-shaped profile [604] & (605)
 Description: Between 0.39 m and 0.42 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand.

Trench No: 7
 Alignment: E-W
 Total length: 236 m
 Excavated from: E
 Features: 9 m - 21 m Linear ditch feature that turns 90° to the south at the west end. 1.2 m wide at the western end (cut [706] and fill (707)) and only 0.35 m wide at the eastern end (cut [704] and fill (705)). The ditch is 0.35 m deep and two fragments of abraded red ceramic were recovered from the fill (707)
 27 m N-S aligned tile field drain
 also at 34 m, 48 m, 70 m, 109 m, 128 m, 208 m.
 63 m N-S aligned rubble field drain
 119 m Stone pit irregular in shape 1.4 m wide and 0.35 m deep [708] & (709). A stone hammer was recovered from the fill
 Description: Between 0.41 m and 0.42 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes.

Trench No: 8
 Alignment: N-S
 Total length: 315 m
 Excavated from: N
 Features: N-S aligned field drain running the length of the trench
 Occasional plough marks aligned NW-SE through trench

Description: Between 0.33 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand. No significant archaeological features or artefacts were recorded.

Trench No: 9
Alignment: N-S
Total length: 310 m
Excavated from: N
Features: 186 m Stone line culvert (cut 900 and fill 901) aligned NW-SE comprising large un-worked sandstone blocks.

Description: Between 0.30 m and 0.35 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand.

Trench No: 10
Alignment: N-S
Total length: 300 m
Excavated from: N
Features: 121 m E-W aligned linear ditch 0.5 m wide and 0.25 m deep with single dark brown silty sand fill Cut [1000] and fill (1001)
 234 m NE-SW aligned linear ditch (Cut [1002] and fill 1003) with modern ceramic within the fill. In line with ditch recorded in Tr.4 and Tr.11

Description: Between 0.30 m and 0.35 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand.

Trench No: 11
Alignment: N-S
Total length: 300 m
Excavated from: N
Features: 0 - 50 m Field drain aligned N-S
 122.5 area of 20th C glass and ceramic fragments (poss dump)
 215.4 NE-SW aligned linear ditch (Cut [1100] and fill (1101)) with modern ceramic within the fill (also recorded in Tr4 & Tr10)
 215 m NE-SW aligned rubble field drain
 224 m NE-SW aligned tile field drain
 238 m NW-SE aligned tile field drain

Description: Between 0.30 m and 0.35 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand.

Trench No: 12
Alignment: NWW-SEE
Total length: 80 m
Excavated from: NWW
Features: 24.2 m NW-SE aligned tile field drain, also at 41.5 m & 72.5 m
 28 m outcrop of bedrock.

Description: Between 0.35 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes

and patches of finer sand. No significant archaeological features or artefacts were recorded.

Trench No: 13
Alignment: NWW-SEE
Total length: 75 m
Excavated from: SWW
Features: 66 m NW-SE aligned tile field drain
Description: Between 0.35 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand. No significant archaeological features or artefacts were recorded.

Trench No: 14
Alignment: NW-SE
Total length: 140 m
Excavated from: SE
Features: 48.2 m NW-SE aligned tile field drain, also at 106 m and 127 m
 75 m U-shaped linear ditch 0.5 m wide and 0.2 m deep Cut [1400] and fill (1401). Possibly associated with ditch feature in Tr4, Tr10 & Tr11
 76.7 m NW-SE aligned rubble field drain, also at 81.7 m
Description: Between 0.30 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand.

Trench No: 15
Alignment: NE-SW
Total length: 58 m
Excavated from: SW
Features: 21.2 m NE-SW aligned rubble field drain
 34.1 m N-S aligned tile field drain
Description: Between 0.30 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes. No significant archaeological features or artefacts were recorded.

Trench No: 16
Alignment: NE-SW
Total length: 90 m
Excavated from: SW
Features: 2 m NNE-SSW tile field drain
 14.7 m Linear ditch (Cut [1600] and Fill (1601))associated with 19th C field boundary
 80 m N-S aligned rubble field drain
Description: Between 0.30 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones.

Trench No: 17
Alignment: NE-SW
Total length: 100 m
Excavated from: NE

Features: 1.8 m N-S aligned tile field drain, also at 17.7 m, 38.8 m, 52.4 m, 60.4 m, 68.5 m, 69.4 m, 70.3 m & 86 m
12.9 m N-S aligned rubble field drain

Description: Between 0.30 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand. No significant archaeological features or artefacts were recorded.

Trench No: 18
Alignment: NW-SE
Total length: 100 m
Excavated from: NW

Features: 0 – 13 m Tile field drain aligned NWW-SEE
7 m E-W aligned rubble field drain
68 m Tile field drain aligned E-W

Description: Between 0.30 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and patches of finer sand. No significant archaeological features or artefacts were recorded.

Trench No: 19
Alignment: NWW-SEE
Total length: 95 m
Excavated from: NWW

Features: 4.7 m NW-SE aligned tile field drain, also at 13.8 m, 22 m, 28.8 m, 42.8 m, 57.5 m, 71.7 m
80.2 m NW-SE aligned rubble field drain

Description: Between 0.30 m and 0.35 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand. No significant archaeological features or artefacts were recorded.

Trench No: 20
Alignment: NWW-SEE
Total length: 125 m
Excavated from: SEE

Features: 0.5 m NW-SE aligned rubble field drain, also at 61.5 m
16.7 m NW-SE aligned tile field drain, also at 38 m, 86.5 m, 102 m & 117.6 m
22.5 m E-W aligned rubble field drain
43.5 m NW-SE aligned rubble field drain

Description: Between 0.30 m and 0.35 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand. No significant archaeological features or artefacts were recorded.

Trench No: 21
Alignment: E-W
Total length: 160 m
Excavated from: W

Features: 10.3 m NW-SE tile field drain, also at 26.8 m, 43.9 m, 56.9 m, 69.8 m, 91 m, 103 m & 113 m
75.4 m NE-SW aligned rubble field drain, also at 83.7 m

Description:	<p>135.3 m NW-SE aligned rubble field drain, also at 153.3 m</p> <p>143.4 m N-S aligned large rounded cobble rubble field drain, also at 146 m</p> <p>Between 0.30 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand. No significant archaeological features or artefacts were recorded.</p>
Trench No:	22
Alignment:	N-S
Total length:	130 m
Excavated from:	S
Features:	<p>0 m – 13 m N-S aligned rubble field drain</p> <p>40.5 m N-S aligned tile field drain</p> <p>45.3 m E-W aligned tile field drain</p>
Description:	<p>Between 0.30 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand. No significant archaeological features or artefacts were recorded.</p>
Trench No:	23
Alignment:	NE-SW
Total length:	75 m
Excavated from:	NE
Features:	<p>10.8 m N-S aligned rubble field drain</p> <p>21.2 m N-S aligned tile field drain, also at 23.5 m, 45 m & 69.4 m</p>
Description:	<p>Between 0.35 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand. No significant archaeological features or artefacts were recorded.</p>
Trench No:	24
Alignment:	NW-SE
Total length:	65 m
Excavated from:	NW
Features:	<p>27.5 m NE-SW aligned rubble field drain</p> <p>33.5 m E-W aligned tile field drain</p> <p>39 m Linear ditch aligned NE-SW 0.75 m wide and 0.25 m deep. Cut [2400] and Fill (2401)</p> <p>55.2 m E-W aligned rubble field drain</p>
Description:	<p>Between 0.35 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones. No significant archaeological features or artefacts were recorded.</p>
Trench No:	25
Alignment:	NW-SE
Total length:	50 m
Excavated from:	SE
Features:	5 m N-S aligned tile field drain, also at 9.1 m, 21.5 m & 39.4 m
Description:	<p>Between 0.35 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and patches of finer sand. No significant archaeological features or artefacts were recorded.</p>

Trench No: 26
Alignment: E-W
Total length: 30 m
Excavated from: W
Features: 2.4 m NW-SE aligned tile field drain, also at 10.5 m, & 23.9 m
Description: Between 0.35 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones. No significant archaeological features or artefacts were recorded.

Trench No: 27
Alignment: NW-SE
Total length: 355 m
Excavated from: NW
Features: 41.5 m N-S aligned rubble field drain with a 2nd rubble drain running NW-SE on the N side along the trench edge until 57.3 m
 116 m NE-SW aligned rubble field drain 0.6 m wide, also at 166 m
 269 m NE-SW aligned tile field drain
 309.8 m NE-SW aligned rubble field drain, also at 350 m
 311.6 Linear ditch 0.75 m wide and 0.27 m deep filled with a soft brown silty sand Cut [2700] and Fill (2701)
 339 m linear ditch 0.7 m wide and 0.25 m deep Cut [2702] and fill (2703)
 328 m E-W aligned rubble field drain, also at 350 m
Description: Between 0.30 m and 0.35 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand.

Trench No: 28
Alignment: E-W
Total length: 165 m
Excavated from: W
Features: 8.7 m N-S aligned rubble field drain, also at 24.2 m, 30.5 m, 45.3 m, 53.7 m, 67.8 m, 74.4 m, 89 m and 157 m
 16.5 m N-S aligned tile field drain, also at 126 m, 144m and 150m
 18.4 m N-S aligned modern field drain
 109 m N-S aligned rubble field drain with a 2nd drain running Se from the middle
Description: Between 0.30 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand. No significant archaeological features or artefacts were recorded.

Trench No: 29
Alignment: NW-SE
Total length: 300 m
Excavated from: NW
Features: 161.3 m E-W aligned rubble field drain turning to S at W side
 170.7 m small circular pit 0.8 m diameter and 0.27 m deep [2900] & (2901)
 185.5 m E-W aligned rubble field drain
 190 m large circular pit 1.7 m diameter and 0.52 m deep filled with a soft grey clay with occasional rounded cobbles [2902] & (2903)
 231.7 m two tile field drains, one aligned N-S the other NE-SW

Description:	240.7 m N-S aligned tile field drain, also at 242.5 m
	255 m N-S aligned modern linear gully 0.9 m wide and 0.15 m deep and filled with soft grey sand
Description:	293 m NE-SW aligned tile field drain
	Between 0.35 m and 0.50 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand.
Trench No:	30
Alignment:	NW-SE
Total length:	300 m
Excavated from:	SE
Features:	40 m NWW-SEE aligned tile field drain
	46.2 m E-W aligned rubble field drain, also at 90.7 m, 108 m, 129.3 m, 142.2 m, 228 m, 251 m, 275.7 m
Description:	300 m E-W aligned modern field drain
	Between 0.30 m and 0.50 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large rounded stones and occasional stone holes and patches of finer sand. No significant archaeological features or artefacts were recorded.
Trench No:	31
Alignment:	NW-SE
Total length:	305 m
Excavated from:	SE
Features:	10.4 m E-W aligned modern field drain
	46.2 m E-W aligned rubble field drain, also at 74 m, 98 m, 172 m, 182 m, 189 m, 223 m, 242 m and 284 m
Description:	237 m E-W aligned tile field drain
	Between 0.30 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand. No significant archaeological features or artefacts were recorded.
Trench No:	32
Alignment:	NW-SE
Total length:	50 m
Excavated from:	SE
Features:	25 m E-W aligned rubble field drain
	25 m NNW-SSE aligned shallow linear ditch 0.6 m wide and 0.07 m deep filled with a soft mid-brown sand
Description:	Between 0.35 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and patches of finer sand.
	No significant archaeological features or artefacts were recorded.
Trench No:	33
Alignment:	NW-SE
Total length:	45 m
Excavated from:	SE
Features:	8.8 m NNE-SSW aligned rubble field drain
	15.8 m N-S aligned tile field drain

Description: 32.8 m E-W aligned rubble field drain
Between 0.35 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand. No significant archaeological features or artefacts were recorded.

Trench No: 34

Alignment: NW-SE

Total length: 50 m

Excavated from: SE

Features: 9 m N-S aligned tile field drain
15 m E-W aligned rubble field drain
42 m NNW-SEE aligned rubble field drain

Description: Between 0.35 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones. No significant archaeological features or artefacts were recorded.

Trench No: 35

Alignment: E-W

Total length: 35 m

Excavated from: W

Features: 1.2 m NE-SW aligned tile field drain
4 m NE-SW aligned rubble field drain plus 2nd rubble drain running to the SE
19.8 m NNW-SSE aligned rubble field drain

Description: Between 0.30 m and 0.35 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones. No significant archaeological features or artefacts were recorded.

Trench No: 36

Alignment: N-S

Total length: 115m

Excavated from: S

Features: 18.8 m small pit, linear ditch 26.2 m long E-W Cut [3600] and Fill (3601)
59.2 m NNW-SEE aligned tile field drain, also at 65.5 m and 98.7 m

Description: Between 0.30 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and patches of finer sand.

Trench No: 37

Alignment: N-S

Total length: 95 m

Excavated from: S

Features: 20.7 m NNW-SSE aligned tile field drain, also at 48.5 m and 76.6 m
38.2 m E-W aligned rubble field drain

Description: Between 0.35 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and occasional stone holes and patches of finer sand. No significant archaeological features or artefacts were recorded.

Trench No: 38

Alignment: NNE-SSE

Total length: 145 m

Excavated from: SSE

Features: 13.3 m E-W aligned rubble field drain, also at 62 m, 77 m, 86 m and 127 m
28 m NNE-SSW aligned tile field drain

Description: Between 0.30 m and 0.40 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and patches of finer sand. No significant archaeological features or artefacts were recorded.

Trench No: 39

Alignment: NNE-SSW

Total length: 100 m

Excavated from: NNE

Features: 16.5 m E-W aligned rubble field drain, also at 48.9 m, 58.5 m and 73.2 m

Description: Between 0.30 m and 0.90 m of topsoil over natural sand deposits. Subsoil was clayey orange/brown sand with occasional large stones and frequent small stones, occasional stone holes and patches of finer sand. No significant archaeological features or artefacts were recorded.

Appendix 3: Finds List

Find No	Context	Material	Description
1	704	Stone	Rounded course hammer stone 0.70 m x 0.50 m x 0.45 m with a worn smooth end plus two facets
2	Unstrat	MX	Assorted finds from the topsoil inc, a few Post-Medieval ceramic fragments and a small piece of flint
3	707	Ceramic	Small fragment of very abraded pottery. Orange/red in colour with no glaze.
4	2701	Stone	Rounded course stone 0.75 m x 0.65 m x 0.55 m with two areas of wear. Possible hammerstone.
5	707	Ceramic	Small fragment of abraded pottery. Pink/red colour with no glaze.

Appendix 4: Sample Register

Trench No.	Context	Quantity
Tr 7	707	2 tubs
Tr 7	709	2 tubs
Tr 27	2703	2 tubs
Tr 29	2901	1 tub
Tr 29	2903	2 tubs
Tr 36	3601	2 tubs

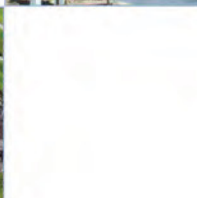
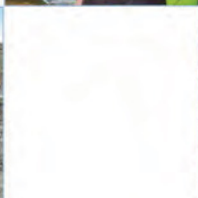
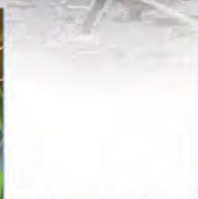
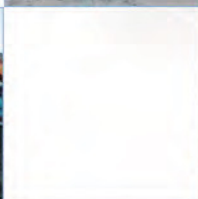
Appendix 5: Context Register

Context No.	Type	Description
400	Cut	A linear ditch 1.2 m x 0.8 m in size and 0.33 m deep with a 'U' shaped profile. Filled with 401
401	Fill	A mottled grey sand fill with patches of orange/brown sand and occasional stone inclusions. Fill of 400
600	Cut	A curvilinear ditch cut aligned roughly NE-SW 0.38 m wide and 2.8 m long across Tr. 6. The ditch was 'U' shaped in section 0.10 m deep. Modern disturbance. Filled with 601
601	Fill	A mid-brown clayey silt with occasional small stone inclusions. Fills cut 600
602	Cut	Small circular pit 0.24 m diameter and 0.15 m deep with a 'U' shaped profile. Filled with 603. Stone hole
603	Fill	Dark brown soft sand with occasional small stone inclusions
604	Cut	A linear ditch cut aligned E-W across Trench 6. 0.7 m wide and (at least) 2.5 m long with a 'V' shaped profile 0.18 m deep. Possibly a deep plough furrow. Filled with 605
605	Fill	A mid-brown clayey silt with occasional small stone inclusions. Fill of cut 604
704	Cut	A linear ditch cut 0.55 m wide and aligned E-W through Tr 7. Continues as cut 706 to the west. The ditch was approximately 4 m long and was 0.15 m deep at the east end. Filled with 705
705	Fill	A mid-brown soft clayey sand with occasional small stone inclusions. Fill of cut 704
706	Cut	A continuation of ditch cut 704 but is much wider at 1.3 m and 0.35 m deep with an irregular shaped profile. The ditch turns 90° to the south at the west end. Filled with 707
707	Fill	A dark brown soft sand with occasional small stones and larger rounded cobbles. Fill of cut 706
708	Cut	Large oval shaped pit in plan 1.4 m diameter and 0.55 m deep with an irregular shaped profile and uneven base. Filled with 709
709	Fill	A dark brown soft clayey sand with occasional small and large rounded stone inclusions. Fill of cut 708
900	Cut	A linear cut aligned NW-SE across Tr 9. The cut is 0.5 m wide and 0.5 m deep. Cut of stone-lined culvert.
901	Fill	A series of irregular shaped and poorly cut stones forming the sides and top of a simple culvert
1000	Cut	A 'V' shaped ditch cut 0.60 m wide and 0.25 m deep with gradual sloped sides leading to a flat base. The ditch was aligned E-W across Tr 10. Filled with 1001
1001	Fill	A dark brown silty sand fill with frequent stone inclusions. Fill of cut 1000
1002	Cut	A linear ditch aligned NE-SW 0.6 m wide and 0.4 m deep with a 'U' shaped

		profile. Filled with 1003
1003	Fill	A dark brown clayey sand with moderate stone inclusions including 19 th / 20 th century ceramic frags. Fill of cut 1002
1100	Cut	A linear ditch aligned NE-SW 0.6 m wide and 0.4 m deep with a 'U' shaped profile. Filled with 1101
1101	Fill	A dark brown clayey sand with moderate stone inclusions including 19 th / 20 th century ceramic frags. Fill of cut 1100.
1400	Cut	A 'U' shaped linear ditch/gully aligned NW-SE. The ditch was 0.5 m wide and 0.2 m deep. Filled with 1401
1401	Fill	A grey/brown soft sand with occasional rounded stone inclusions. Fill of cut 1400
1600	Cut	A shallow 'V' shaped ditch cut 0.45 m wide and 0.15 m deep and aligned approximately N-S. Filled with 1601
1601	Fill	A grey/brown soft sand with occasional rounded stone inclusions. Fill of cut 1600
2400	Cut	A linear ditch cut aligned NE-SW 0.65 m wide and 0.26 m deep. Filled with 2401. It had an uneven 'U' shaped profile.
2401	Fill	Mid-brown clayey sand with moderate stone inclusions. Fill of cut 2400
2700	Cut	A linear ditch/gully cut 0.75 m wide and 0.27 m deep with a 'U' shaped profile and aligned E-W across Tr 27. Filled with 2701
2701	Fill	A grey/brown soft sand with occasional stone inclusions. Fill of cut 2700
2702	Cut	A linear ditch/gully cut 0.77 m wide and 0.30 m deep with a 'U' shaped profile and aligned E-W across Tr 27. Filled with 2703
2703	Fill	A grey/brown soft sand with occasional stone inclusions. Fill of cut 2702
2900	Cut	A round pit cut in plan 0.8 m diameter with a 'U' shaped profile 0.27 m deep. Filled with 2901
2901	Fill	A fine soft grey sand with occasional angular and sub angular stone inclusions. Fill of cut 2900
2902	Cut	A large circular pit in plan 1.7 m diameter and 0.52 m deep with a 'U' shaped profile. Filled with 2903
2903	Fill	A fine soft grey sand with occasional angular and sub angular stone inclusions. Fill of cut 2900
3600	Cut	A linear ditch cut 0.64 m wide and 26.2 m long aligned E-W. The ditch had a 'U' shaped profile and was 0.28 m deep. Filled with 3601
3601	Fill	A dark brown clayey sand with occasional small stone inclusions and occasional larger rounded cobbles. Fill of cut 3600

Appendix 6: *Discovery and Excavation in Scotland* Entry

LOCAL AUTHORITY:	Angus
PROJECT TITLE/SITE NAME:	Carlogie Road, Carnoustie
PROJECT CODE:	AOC 21084
PARISH:	Carnoustie
NAME OF CONTRIBUTOR:	Donald Wilson
NAME OF ORGANISATION:	AOC Archaeology Group
TYPE(S) OF PROJECT:	Evaluation
NMRS NO(S):	None
SITE/MONUMENT TYPE(S):	None
SIGNIFICANT FINDS:	None
NGR (2 letters, 6 figures)	NO 563 360
START DATE (this season)	15 th Sept 2008
END DATE (this season)	26 th Sept 2008
PREVIOUS WORK (incl. <i>DES</i> ref.)	None
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	An archaeological evaluation was undertaken on cultivated farmland to the north of Carnoustie prior to the development of a proposed industrial estate. A total of 39 evaluation trenches were excavated. All the trenches were excavated down to natural alluvial deposits with a mixture of tile and rubble field drains recorded. In addition to a number of shallow linear channels and ditches, a small number of pits were investigated. Artefacts were only recovered from four of the recorded features. One of the main features revealed was a linear ditch, the fill of which included a number of shards of 19 th century pottery, and was thought to be a field boundary depicted on the 1 st Edition Ordnance Survey. Two possible hammer stones were recovered from two separate pits and two fragments of abraded red ceramic, provisionally attributed to the post-medieval period, were retrieved from the fill of a linear ditch at the southern end of the site.
PROPOSED FUTURE WORK:	unknown
CAPTION(S) FOR ILLUSTRS:	N/a
SPONSOR OR FUNDING BODY:	D J Laing, Carnoustie
ADDRESS OF MAIN CONTRIBUTOR:	Edgefield Road Industrial Estate, Loanhead, Midlothian, EH20 9SY
EMAIL ADDRESS:	donald.wilson@aocarchaeology.com
ARCHIVE LOCATION (intended/deposited)	Archive to be deposited in NMRS.



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