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Advice on Archaeology & Planning

Environmental Impact Assessment

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Finds/ Environmental Analysis

Field Evaluation & Excavation

Historic Building Recording


Site & Landscape Survey


Geophysical Survey

**Lochend Avenue/Brunt Place
Dunbar
East Lothian**

Archaeological Evaluation

Report No. 1618

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standard operating procedures.

**Lochend Avenue/Brunt Place
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East Lothian**

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1. INTRODUCTION

1.1 General

- 1.1.1 This report presents the results of a desk-based assessment and archaeological evaluation undertaken by CFA Archaeology Ltd (CFA) in March and April 2009 within a field adjacent to Lochend Avenue/Brunt Place, Dunbar, East Lothian (NGR: NT 68196 77911) (Fig 1). The work was commissioned by East Lothian Council.
- 1.1.2 A Written Scheme of Investigation (WSI) for the project was produced by CFA. The WSI was based upon documents provided by Camerons Ltd and a verbal brief from the East Lothian Council Archaeology Officer.

1.2 Background

- 1.2.1 The applicant is seeking full planning permission for the construction of a housing scheme consisting of 44 houses and 44 flats, along with associated services, infrastructure and landscaping.
- 1.2.2 The proposed development area is located to the west of Spott Road and forms a parcel of land bordered by recent housing developments. It is understood that it constituted part of the grounds of Lochend House, which was a 17th century mansion destroyed by fire in 1859. The current usage of the proposed development area is for agricultural purposes.
- 1.2.3 To the south of the proposed development area, a substantial cist grave dating to the 1st century AD and containing human remains was discovered in 1962. In addition, evaluation work to the west of the site at Halhill uncovered a medieval settlement (Mitchell 2003) and a possible square burial and long cists (Glendinning 2003, Curtis and Johnson 2005), indicating that this area was very attractive to settlement and burial from the prehistoric period onwards. Consequently, the proposed development area was considered to be of high archaeological potential, resulting in the terms of the planning consent requiring an archaeological evaluation investigating no less than 10% of the total site area of 2.185 ha.
- 1.2.4 No previous invasive archaeological fieldwork is known to have taken place within the proposed development area prior to this evaluation.

1.3 Objectives

- 1.3.1 The aims of the field evaluation were to determine the location, character, extent and quality of any features or objects of archaeological importance that may survive within the application area, and which may be damaged or destroyed by this development.

2. WORKING METHODS

2.1 General

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

2.2 Desk-based Assessment

- 2.2.1 The historic map collection held by the National Libraries of Scotland (NLS) was examined for information on pre-recent land use within the proposed development area. The maps examined included the Ordnance Survey 6" and 25" map editions, together with other readily available cartographic information.
- 2.2.2 The National Monuments Record of Scotland (NMRS) and Historic Scotland's 'Pastmap' (<http://jura.rcahms.gov.uk/PASTMAP/Map>) web site were consulted to obtain information on known archaeological sites within the proposed development area.
- 2.2.3 An examination was made of the vertical aerial photographs held by the Royal Commission on the Ancient and Historical Monuments of Scotland (RCAHMS).

2.3 Trial Trenching

- 2.3.1 Twenty-four trenches (**1 – 24**) (Fig. 1) were excavated, amounting to c.2360m² (c.10.8% of the total development area).
- 2.3.2 Topsoil and modern overburden was removed by a 360° tracked mechanical excavator equipped with a 2m wide smooth-bladed ditching bucket. All groundbreaking work was carried out under constant archaeological supervision. All further excavation required to fulfil the objectives of the evaluation was carried out by hand.
- 2.3.3 The stratification of all excavated areas was recorded, whether or not significant archaeological deposits were identified.
- 2.3.4 Trench positions were surveyed using industry standard electronic surveying equipment.
- 2.3.5 All trenches were backfilled on completion of the evaluation.

3. ARCHAEOLOGICAL RESULTS

3.1 Desk-based Assessment (Cara Jones)

NMRS Sites

- 3.1.1 There are no NMRS records pertaining to cultural heritage sites within the proposed development area.
- 3.1.2 To the south of the proposed development area a boat shaped, sandstone lined cist (NMRS no: NT67NE 84) was recorded in 1962 at Lochend. The cist was subsequently excavated and found to contain the human remains of at least twenty-one individuals, with associated grave good (penannular brooches and iron studs) dating to the 1st century AD. The area is now covered by a modern housing estate.
- 3.1.3 To the south-south-west of the proposed development an archaeological evaluation (NT67NE 16.4), conducted in 2001, was undertaken in advance of a housing development. One feature was identified and interpreted as the ice house associated with Lochend Estate.
- 3.1.4 To the south-west and west of the proposed development, an archaeological evaluation (NT67NE 515, NT67NE 125) in advance of a housing development identified a long cist cemetery, an enclosure and a rural medieval settlement (Glendinning 2003, Mitchell 2003, Curtis and Johnson 2005).
- 3.1.5 To west of the proposed development lie the remains of Lochend House (NT67NE 16.0), set within a designed landscape. Although mostly destroyed by fire in 1859, the remains of Lochend house are still designated as an A Listed structure (HB no: 1514). Associated cottages, walled garden and other buildings are also listed.
- 3.1.6 To the north-west of the proposed development, a recent archaeological evaluation (O'Connell 2009), conducted in advance of a new school revealed field drainage (culverts and ceramic field drains). Crop mark features, identified through vertical aerial photographs, were found to be geological anomalies rather than cultural heritage remains.

Cartographic Sources

- 3.1.7 Adair's map of 1682 depicts the estate of Lochend, but provides no detail on the proposed development area.
- 3.1.8 Roy's map (c. 1750) depicts the estate of Lochend but does not provide any detail on the proposed development area. The southern half of the estate is depicted as being covered in rig-and-furrow.
- 3.1.9 Forrest's (1799) map depicts the proposed development area within the designed landscape associated with Lochend House. A track or road is depicted leading from Lochend House to the main public road. It is possible

that this goes through the proposed development area, or that it is part of the Southern boundary of the proposed development area (later seen as the field boundary on the OS 1st Edition).

- 3.1.10 Ainslie (1821) annotates Lochend and depicts the general area of the proposed development area but provides no detail on the site.
- 3.1.11 Thomson (1821) depicts the general area of the proposed development area. Lochend is depicted and annotated.
- 3.1.12 Greenwood (1824 and 1844) depicts the proposed development area within the designed landscape of Lochend House. The east side of the proposed development area is depicted as wooded. The road or track depicted on Forrest's map is also shown, following the approximate line of the southern boundary of the proposed development area.
- 3.1.13 The Ordnance Survey 1st Edition map (1854) shows the proposed development to be included within the designed landscape associated with Lochend House. The proposed development area is shown to be open park land (as opposed to wooded). The field boundary on the southern edge of the study area is depicted on the OS 1st Edition. To the north-east of the proposed development area, East Lodge (presumably associated with Lochend House) and a well is depicted and annotated.

Aerial Photographs

- 3.1.14 A 1971 aerial photograph shows possible relict field boundaries running across the site, although it is possible that these are tractor marks.
- 3.1.15 Although out of the red line boundary, a horse-shoe shaped anomaly is visible directly north of the proposed development area. The location of the anomaly is now under a modern housing estate.
- 3.1.16 Flash earth (www.flashearth.com) shows a series of large circular anomalies in the southern part of the site. It is unclear if these relate to archaeological features and they may simply be agricultural or geological.

3.2 Trial Trenches (Fig. 1)

- 3.2.1 Numbers in bold and parentheses refer to contexts (Appendix 2) and a summary of the trenches excavated is contained in Appendix 1.
- 3.2.2 The topsoil across the proposed development site predominantly consisted of 0.25m – 0.4m of grey-brown silt overlying orange-brown sand/sandy-clay. Deeper deposits consisting of recent made-ground with a depth of up to 1.1m were identified at the northern end of the site, where it bordered Brunt Place/Lochend Avenue. The deeper deposits are thought to have been a result of landscaping relating to the aforementioned development.

- 3.2.3 Agricultural drainage was present throughout the proposed development site. Rubble drains and ceramic cylinder drains were both identified.
- 3.2.4 Vestigial traces of rig-and-furrow cultivation were identified in Trenches **1, 2, 4, 8, 11, 15, 16, 20, 21** and **22**. The rig-and-furrow was predominantly on a north-east to south-west alignment, but north-west to south-east aligned rig-and-furrow was identified in Trenches **15, 16, 20** and **22**. The furrows measured up to 2.8m in width by 0.2m in depth (furrow **029**, Fig. 4) and were situated in the region of c. 10m to 14m apart.
- 3.2.5 A circular pit (**037**) (Fig. 5) measuring c. 0.55m in diameter by 0.2m deep was identified in Trench **23**. Modern pottery recovered from the base of the pit suggests that it is of recent date.

4. CONCLUSION AND RECOMMENDATIONS

- 4.1 An archaeological desk-based assessment and evaluation was carried out within a field adjacent to Lochend Avenue/Brunt Place, Dunbar. Cartographic information indicates that the proposed development area lay within the grounds of Lochend House. Trial trenching identified vestigial traces of rig-and-furrow and a small circular pit. Modern pottery from the base of the pit suggests that it is of recent date. Despite the NMRS listing a number of important sites within close proximity to the proposed development area, no features, deposits or artefacts of archaeological significance were identified.
- 4.2 A summary statement of the results of this evaluation, to be submitted for publication in *Discovery and Excavation in Scotland* (Appendix 5), will be sufficient to disseminate the results of this evaluation.
- 4.3 The project archive, comprising all CFA record sheets, maps and reports, will be deposited with the National Monuments Record of Scotland (NMRS) and copies of reports will be lodged with the East Lothian Council Sites and Monuments Record.
- 4.4 CFA does not recommend any further mitigation measures. However, the final decision regarding all mitigation measures lies with the East Lothian Council Archaeology Officer.

5. REFERENCES

5.1 Bibliographic

Curtis A and Johnson M, 2005, *Halhill Farm, Dunbar, East Lothian: Archaeological Evaluation* CFA Report No. 1031

Glendinning B, 2003, *Halhill Farm, Dunbar, East Lothian: Archaeological Evaluation* CFA Report No. 821

Mitchell S., 2003, *Halhill Farm, Dunbar, East Lothian: Archaeological Excavation* CFA Report No. 853

O'Connel C. 2009, *New Upper Primary School, Dunbar, East Lothian: Archaeological Desk-Based Assessment and Evaluation* CFA Report No. 1595

5.2 Cartographic

Adair, J 1682 *East Lothian / authore Johanne Adair*

Adair, J 1736 *A map of East Lothian / survey'd by J. Adair*

Ainslie, J 1821 *Ainslie's Map of the Southern Part of Scotland*
Forrest, W 1802 *Map of Haddingtonshire*

Greenwood, C and Fowler, W 1825 *Map of the county of Haddington*

Greenwood, C and Fowler, W 1825 *Map of the county of Haddington*

Ordnance Survey 1st Edition (1854) 6 inch to one mile Haddingtonshire Sheet 6

Roy, W 1747-55 *Military map of Scotland*

Thomas, J and Johnson, W 1820 *Haddington*

5.3 Aerial Photographs

Sortie	Frame	Date	Scale
106G/UK 979	4030-4029	08/11/45	1:5000
58/RAF/3262	F63: 0272-0273	15/10/59	1:10000
OS/62/031	117-116	01/05/62	1:7500
OS/71/051	015-016	11/04/71	1:7000
OS/80/074	023-024	11/05/80	1:8000
51988	134-135	07/06/88	1:24000

APPENDIX 1: Summary of Excavation Results

Trench no.	Size (m)	Topsoil depth (m)	Features
1	50 x 2	0.25 – 0.3	Rig and furrow, rubble field drain
2	50 x 2	0.25 – 0.3	Rig and furrow, clay cylinder drain, modern test pit
3	50 x 2	0.3 – 0.4	None
4	50 x 2	0.3	Rig and furrow, ceramic cylinder drains
5	50 x 2	0.3	Ceramic cylinder drains
6	50 x 2	0.25 – 0.3	Ceramic cylinder drains
7	50 x 2	0.25 – 0.3	Ceramic cylinder drains
8	50 x 2	0.3	Rig and furrow, ceramic cylinder drains
9	50 x 2	0.25 – 0.3	None
10	50 x 2	0.25 – 0.3	Ceramic cylinder drain, rubble field drain
11	50 x 2	0.3 – 0.35	Rubble field drains
12	50 x 2	0.3	None
13	30 x 2	1.1 (made ground)	Rubble field drain
14	50 x 2	0.3 – 0.4	Rubble field drains, ceramic cylinder drain
15	50 x 2	0.3 – 0.4	Rig and furrow, rubble field drains, ceramic cylinder drain
16	50 x 2	0.3	Rig and furrow, rubble field drains, ceramic cylinder drain
17	50 x 2	0.3 – 0.35	Rubble field drains, ceramic cylinder drains
18	50 x 2	0.3 – 0.35	Rubble field drains, ceramic cylinder drain
19	50 x 2	0.35 – 0.4	Rubble field drain
20	50 x 2	0.3	Rig and furrow, ceramic cylinder drains
21	50 x 2	0.3 – 0.35	Rig and furrow, ceramic cylinder drains
22	50 x 2	0.35	Rig and furrow, ceramic cylinder drain
23	50 x 2	0.35 – 0.4	Circular pit, ceramic field drain
24	50 x 2	0.35 – 0.4	Rubble field drain

APPENDIX 2: Context Register

No	Trench	Description
001	All	Dark brown silt topsoil
002	All	Orange-brown sandy clay subsoil
003	1	Cut of rig and furrow
004	1	Fill of 003
005	1	Cut of rubble field drain
006	1	Fill of 005
007	2	Cut of rig and furrow
008	2	Fill of 007
009	4	Cut of rig and furrow
010	4	Fill of 009
011	4	Cut of rig and furrow
012	4	Fill of 011
013	8	Cut of rig and furrow
014	8	Fill of 013
015	8	Cut of rig and furrow
016	8	Fill of 015
017	11	Cut of rig and furrow
018	11	Fill of 017
019	11	Cut of rubble field drain
020	11	Fill of 019
021	11	Cut of rig and furrow
022	11	Fill of 021

023	11	Cut of rig and furrow
024	11	Fill of 023
025	15	Cut of rig and furrow
026	15	Fill of 025
027	16	Cut of rig and furrow
028	16	Fill of 027
029	20	Cut of rig and furrow
030	20	Fill of 029
031	21	Cut of rig and furrow
032	21	Fill of 031
033	22	Cut of rig and furrow
034	22	Fill of 033
035	22	Cut of rig and furrow
036	22	Fill of rig 035
037	23	Cut of circular pit
038	23	Fill of 037

APPENDIX 3: Photographic Register

Colour Slide (Film 1) and Digital

Shot	Description	From	Conditions
1-2	Rig and furrow 003 , SW facing section	SW	Overcast
3-4	Trench 1, general shot	South	Bright
5-6	Trench 2, general shot	North	Bright
7-8	Trench 3, general shot	East	Bright
9-10	Trench 4, general shot	East	Bright
11-12	Rig and furrow 011 , NE facing section	NE	Bright
13-14	Trench 5, general shot	East	Bright
15-16	Trench 6, general shot	East	Bright
17-18	Trench 7, general shot	East	Bright
19-20	Trench 8, general shot	East	Overcast
21-22	Rig and furrow 013 , NE facing section	NE	Bright
23-24	Trench 9, general shot	East	Bright
25-26	Trench 10, general shot	East	Bright
27-28	Rig and furrow 017 , NE facing section	NE	Overcast
29-30	Trench 11, general shot	East	Bright
31-32	Rubble drain 019 , general shot	East	Bright
33-34	Trench 12, general shot	East	Bright
35-36	Trench 13, general shot	East	Sun
37	General working shot	NE	Sun

Colour Slide (Film 2) and Digital

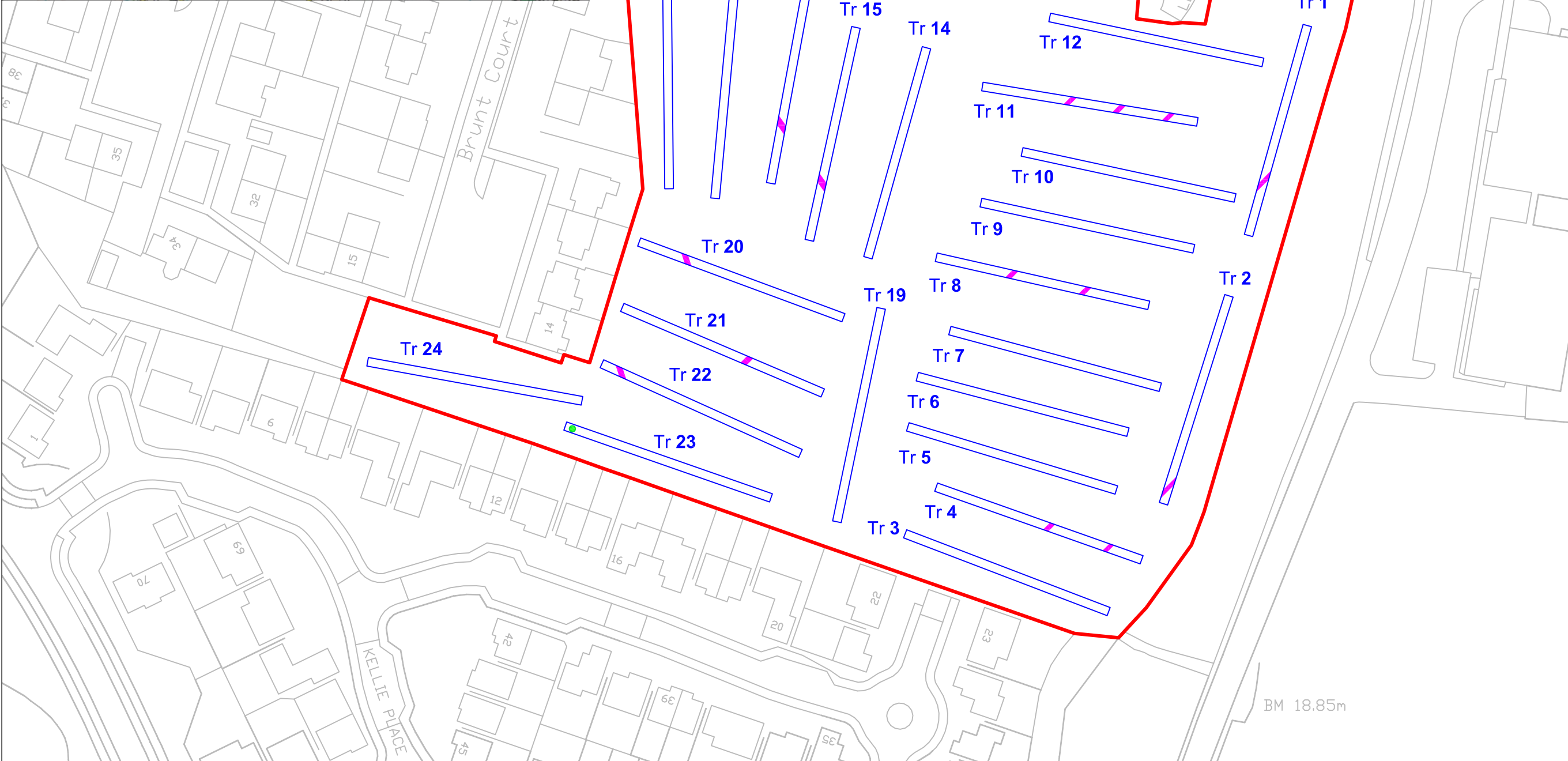
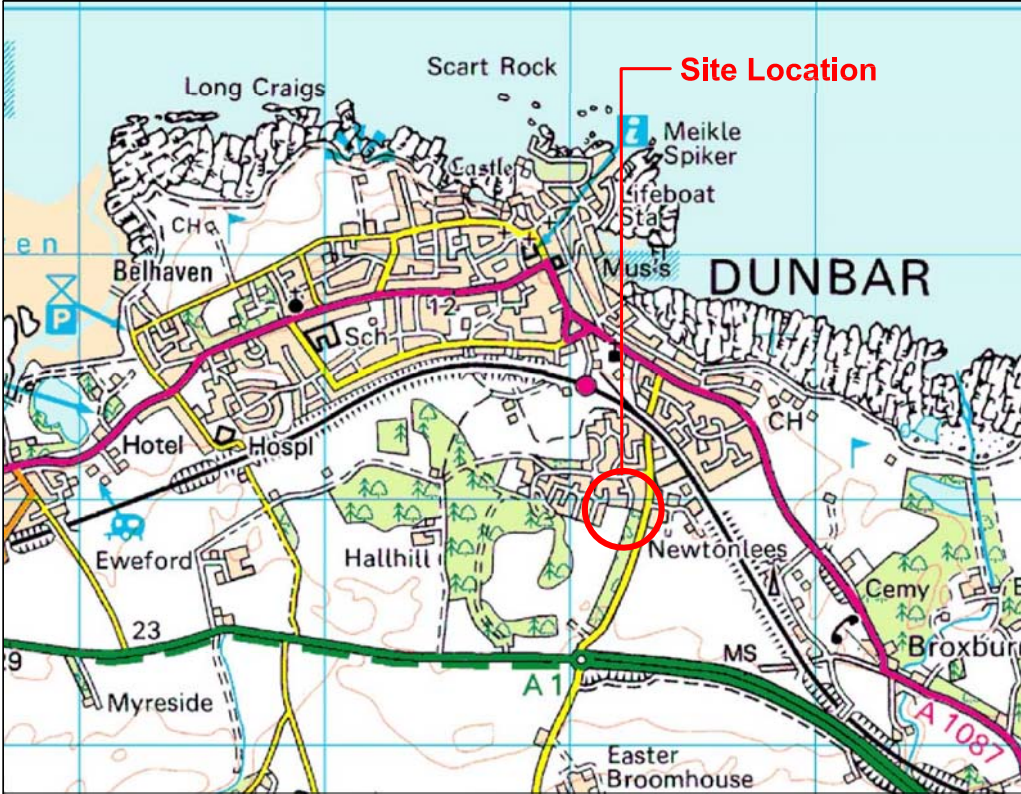
Shot	Description	From	Conditions
1-2	Trench 14, general shot	North	Bright
3-4	Trench 15, general shot	North	Bright
5-6	Trench 16, general shot	North	Overcast
7-8	Trench 17, general shot	North	Sun
9-10	Trench 18, general shot	South	Sun
11-12	Trench 19, general shot	South	Sun
13-14	Rig and furrow 029 , SE facing section	SE	Overcast
15-16	Trench 20, general shot	East	Overcast
17-18	Trench 21, general shot	East	Sun
19-20	Trench 22, general shot	East	Overcast
21-22	Trench 23, general shot	East	Overcast
23-24	Pit 037 , SW facing section	SW	Overcast
25-26	Trench 24, general shot	East	Sun

APPENDIX 4: Field Drawings Register

Sheet No	Drawing No	Scale	Section/Plan	Description
1	1	1:50	P	Plan of Trench 1
1	2	1:10	S	Rig and furrow 003 , SW facing section
1	3	1:50	P	Plan of Trench 2
2	4	1:50	P	Plan of Trench 4
2	5	1:10	S	Rig and furrow 011 , NE facing section
2	6	1:50	P	Plan of Trench 8
2	7	1:10	S	Rig and furrow 013 , NE facing section
3	8	1:50	P	Plan of Trench 11
3	9	1:10	S	Rig and furrow 017 , NE facing section
3	10	1:50	P	Plan of southern end of Trench 15
4	11	1:50	P	Plan of southern end of Trench 16
4	12	1:50	P	Plan of Trench 20
4	13	1:10	S	Rig and furrow 029 , SE facing section
4	14	1:50	P	Plan of Trench 21
5	15	1:50	P	Plan of Trench 22
5	16	1:50	P	Plan of Trench 23
5	17	1:10	S	Pit 037 , SW facing section

APPENDIX 5: Discovery and Excavation in Scotland Entry

LOCAL AUTHORITY:	East Lothian
PROJECT TITLE/SITE NAME:	Lochend Avenue/Brunt Place, Dunbar
PROJECT CODE:	GOUL
PARISH:	Dunbar
NAME OF CONTRIBUTOR:	Magnus Kirby
NAME OF ORGANISATION:	CFA Archaeology Ltd
TYPE(S) OF PROJECT:	Archaeological Evaluation
NMRS NO(S):	None
SITE/MONUMENT TYPE(S):	N/A
SIGNIFICANT FINDS:	None
NGR (2 letters, 10 figures)	NT 68196 77911
START DATE (this season)	30 March 2009
END DATE (this season)	1 st April 2009
PREVIOUS WORK (incl. <i>DES</i> ref.)	None
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	An archaeological desk-based assessment and evaluation was carried out within a field adjacent to Lochend Avenue/Brunt Place, Dunbar. Cartographic information indicates that the proposed development area lay within the grounds of Lochend House. Trial trenching identified vestigial traces of rig-and-furrow cultivation and a small circular pit. Modern pottery from the base of the pit suggests that it is of recent date. Despite the NMRS listing a number of important sites within close proximity to the proposed development area, no features, deposits or artefacts of archaeological significance were identified.
PROPOSED FUTURE WORK:	None
CAPTION(S) FOR ILLUSTRS:	N/A
SPONSOR OR FUNDING BODY:	East Lothian Council
ADDRESS OF MAIN CONTRIBUTOR:	The Old Engine House, Eskmills Park, Musselburgh, EH21 7PQ
EMAIL ADDRESS:	cfa@cfa-archaeology.co.uk
ARCHIVE LOCATION (intended/deposited)	National Monuments Record of Scotland East Lothian Council Sites and Monuments Record



IFA-registered archaeological organisation

Key:

- Development Area
- Trenches
- Rig & Furrow
- Modern Pit



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Fig. No: 1	Revision: A
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Title:
Location Map & Trench Plan

Project:
Lochend Avenue/Brunt Place,
Dunbar, East Lothian
Archaeological Evaluation

Scale:
1:1000 @ A3

Client:
East Lothian Council

Drawn by: Page No:



Fig. 2 - Trench 4, general shot from the east




Fig. 3 - Trench 11, general shot from the east



Fig. 4 - Rig & Furrow 029, southeast-facing section



Fig. 5 - Modern pit 037, southwest-facing section

Key:	Fig. No:	2-5	Revision:	A	Client:	East Lothian Council	<div><div>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</div></div>		
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