

WSEN13/001

ARCHAEOLOGICAL WORKS AT WAVERLEY
STATION, EDINBURGH

watching brief

for C Spencer Ltd

planning application ref: 10/02449/PA

July 2013

ARCHAEOLOGICAL WORKS AT WAVERLEY STATION, EDINBURGH

*watching brief
for C Spencer Ltd
planning application ref: 10/02449/PA*

July 2013

HA Job no.:	WSEN13
HAS no.:	001
NGR:	NT 2597 7393
Parish:	Edinburgh
Council:	City of Edinburgh
OASIS ref.:	headland1-155346
SMR no.:	N/A

Archive will be deposited with:	RCAHMS
---------------------------------	--------

Project Manager:	Edward Bailey
Author:	Donald Wilson
Fieldwork:	Richar Tuffin, Donald Wilson

Approved by:	Edward Bailey – Project Manager
--------------	---------------------------------

CONTENTS

1	INTRODUCTION	1
2	SITE LOCATION AND DESCRIPTION	1
3	AIMS & OBJECTIVES	3
4	METHODOLOGY	3
4.1	Site works (if fieldwork)	3
4.2	Recording	3
4.3	Reporting and Archives	4
5	RESULTS	4
5.1	Discussion	5
5.2	Conclusion	5
6	REFERENCES	5
6.1	Bibliographic sources	5
6.2	Cartographic sources	5
6.3	Other sources	5
7	APPENDICES	6
7.1	Appendix 1 – Site registers	6
7.2	Appendix 2 – Discovery and Excavation in Scotland entry	9

LIST OF ILLUSTRATIONS

Illus 1 Site Location

Illus 2 Extract from the 1852 ordnance Survey

Illus 3 Extract from Edgar's map of 1765

Illus 4 Location of Trench 1

Illus 5 View of the W facing section of Trench 1

Illus 6 View of the stone wall in the S facing section of Trench 1

Illus 7 Location of Trench 2

Illus 8 View of the brick wall in Trench 2



ARCHAEOLOGICAL WORKS AT WAVERLEY STATION, EDINBURGH

Watching Brief

Headland Archaeology Ltd undertook a watching brief on the excavation of two trenches associated with the construction of two lift shafts for the raised walkway at the Calton Road entrance to Waverley Station, Edinburgh. The monitoring was undertaken in order to identify and record any archaeological remains exposed during the works. The work was commissioned by C Spencer Ltd on behalf of Network Rail, and to a specification agreed with Edinburgh City Council.

Two deep trenches were excavated at the base of the raised walkway, one to the outer side of the station and one inside the station building. The external trench revealed part of an earlier platform edge relating to a late 19th century layout of the station. A second platform was exposed within Trench 2 also relating to an earlier configuration of the station

No features relating to the pre-railway period (1850's) of the area were uncovered during the watching brief and no artefacts of archaeological significance were recovered.

1 INTRODUCTION

Headland Archaeology Ltd was commissioned by C Spencer Ltd to undertake a programme of archaeological works in connection with the construction of two new lifts at the Calton Road entrance to Waverley Station, Edinburgh.

Planning permission for the development was granted by Edinburgh City Council (App. no. 13/00261/LBC) subject to a number of conditions, including one relating to archaeological works (no.2.):

No development shall take place on the site until the applicant has secured the implementation of a programme of archaeological work (excavation, reporting and analysis) in accordance with a written scheme of investigation which has been submitted by the applicant and approved by the Planning Authority.

In order to fulfil this condition a Written Scheme of Investigation (WSI) was prepared by Headland Archaeology (June 2013) on behalf of C Spencer Ltd; setting out the proposed strategy for archaeological mitigation.

This included for a programme of archaeological monitoring in outline. The WSI was submitted to and agreed with the City of Edinburgh Council Archaeology Service (CECAS) who advises the Local Planning Authority on archaeological matters. This report details the results of the work.

2 SITE LOCATION AND DESCRIPTION

The site is located at the Calton Road entrance to Waverley Station, Edinburgh (NGR: NT 2597 7395; Illus 1). The site comprises two deep trenches located either side of a raised walkway leading from Calton Road to the rear entrance of the station. Trench 1 is located in a small courtyard area to the north side of the main wall of the

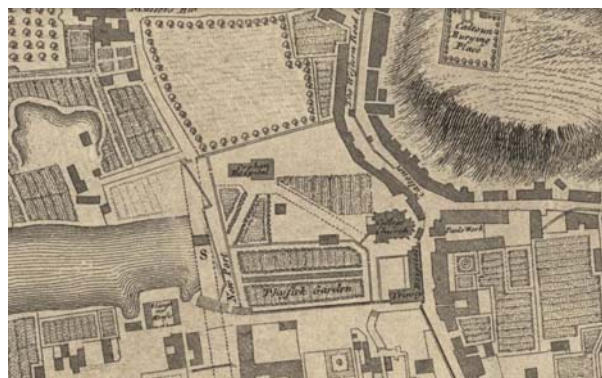
station. Trench 2 is within the station to the south of the stairs leading down from the raised walkway. Both trenches lay around 50m OD. The area of Waverley station is underlain by glacial till, which are Devensian in origin (British Geological Survey website (<http://www.bgs.ac.uk>)).

The archaeological background indicated that Waverley Station was the collective name of three neighbouring stations opened in 1846 and 1847. These were; North Bridge opened in 1846 by the North British Railway, General Station opened by the Edinburgh and Glasgow Railway in 1847 and Canal Street opened by the Edinburgh, Leith and Newhaven Railway in 1847. A number of rail lines and turntables are depicted on the 1852 Ordnance Survey indicating the early industrial development of the area (Illus 2). Following the acquisition of General Station and Canal Street by the North British Railway all three stations were demolished in 1868. They were replaced by a single station rebuilt as Edinburgh Waverley on the site. The 1877 Ordnance Survey depicts a substantial number of rail lines and platforms immediately south-west of Calton Road, although at this time they were not covered. The existing station building was constructed between 1898 and 1902 changing the layout of the earlier lines. Therefore some potential for earlier phases of station construction to be present below ground existed.



Illus 2 Extract from the 1852 ordnance Survey

Prior to the development of the railway station in the 19th century the site was occupied in the medieval period by Trinity Church and associated hospital as depicted on Edgar's map of 1765 (Illus 3). This indicated the potential for buried archaeological remains dating to this period to be present below ground.



Illus 3 Extract from Edgar's map of 1765

3 AIMS & OBJECTIVES

In line with the WSI the main objectives of archaeological works were:

- To record any archaeological remains threatened by the proposed development works
- Organise and deposit the resulting archive in the National Monuments Record of Scotland to facilitate access for future research and interpretation for public benefit

4 METHODOLOGY

4.1 Site works (if fieldwork)

The work was undertaken as specified in the WSI. The main contractor undertook all ground breaking works. A toothed bucket was used to remove all hard surfaces/demolition deposits and all soft deposits were removed using a flat bladed ditching bucket. All ground breaking works were subject to the conditions agreed with CECAS and were monitored by an archaeologist. All isolated features were recorded according to normal watching brief methodology.

4.2 Recording

All aspects of the work were undertaken in accordance with the current relevant Standards and Guidance for Watching Briefs of the Institute for Archaeologists (2008).

All contexts were given unique numbers a full list of which can be found in Appendix 1. All recording was undertaken on *pro forma* record cards. Digital photographs were taken; a graduated metric scale clearly visible. A full list of the photographic record can be found in Appendix 1

4.3 Reporting and Archives

The results of the works are presented below. A summary report has been prepared for submission to *Discovery & Excavation in Scotland* (Appendix 2) and the OASIS database (headland1-155346).

The complete project archive will be deposited with the National Monuments Record of Scotland (NMRS) within six months of the completion of the project. The records (paper and digital) will be archived according to best practice guidelines set out by the Archaeological Archiving Forum (Brown 2007).

5 RESULTS

The work was carried out between 1st and the 29th July 2013 in mixed weather conditions. The work was undertaken subject to the conditions mentioned above until it was clear that the geological subsoil had been reached.

The work comprised the excavation of two deep trenches (Trench 1 and 2) close to the Calton Road entrance to Waverley Station. Trench 1 was located to the outer side of the north wall of the main station building, immediately below the raised walkway leading into the station. Trench 2 was within the station to the south side of the raised walkway immediately south of the staircase (Illus 4).



Illus 4 Location of Trench 1

Trench 1 was measured 5.75m x 4m and was excavated to a maximum depth of 2.5m. The trench abutted the north facing outer wall of the station with the construction cut and projecting wall foundations exposed approximately 1m below the modern ground level at 51m OD. A number of layers of made ground (Contexts 001 to 013) were

exposed in the east and west sections of the trench. These were all thought to post-date the original layout of the station (Illus 5) circa 1850's.



Illus 5 View of the W facing section of Trench 1

The south face of a stonewall (014) was exposed in the south facing section of Trench 1 (Illus 6). This east/west aligned wall was constructed of large squared masonry bonded with cement and capped with a 0.15m layer of concrete. The wall was 0.5m tall overlaying a further layer of concrete which in turn overlaid a foundation of poorly sorted rounded cobble stones. This was thought to represent the remains of one of the original platforms of the station as depicted on the 1877 Ordnance Survey. At 2.1m depth the geological subsoil was reached. This comprised a layer of yellow clay. As the platform was only exposed in the section of the trench much of the feature was left in-situ.



Illus 6 View of the stone wall (014) in the S facing section of Trench 1

Trench 2 was slightly smaller measuring 4m² located immediately south of the raised walkway within the station complex (Illus 7). The trench was excavated to a maximum depth of 1.2m. At the base

of the trench a layer of stone chippings were recorded. These represented the bedding for railway tracks that had since been removed and are probably associated with the late 19th century railway layout.



Illus 7 Location of Trench 2

Across the north side of the trench an east/west aligned brick wall (015) was recorded 0.4m below the modern ground surface (Approx 50m OD) (Illus 8). The wall was 0.72m tall and was overlain with a concrete capping. It was thought that this represented an earlier platform associated with the station prior to the restructuring that took place at the beginning of the 20th century. The geological subsoil was not exposed within this trench.



Illus 8 View of the brick wall in Trench 2

5.1 Discussion

It was clear from the results of the monitoring that the stone (c014) and brick walls (c015) along with all the other contexts, comprising layers of made ground, recorded within the two trenches were associated with the establishment of the railway and its consequent restructuring during the mid 19th and early 20th centuries.

5.2 Conclusion

The monitored excavations did not reveal any remains relating to the pre-industrial period of this area of the city. It is probable that the construction of the station in the mid 19th century truncated the earlier buildings that had existed in this area. Given the small area of disturbance caused by the installation of the lift shafts recorded earlier phases of station buildings on the site, it is likely that the buildings mapped on the early cartographic record still survive to some extent below other areas of the station.

6 REFERENCES

6.1 Bibliographic sources

Brown, D H 2007 *Archaeological Archives Forum Archaeological Archives: a guide to best practice in creation, compilation, transfer and curation*, AAF.

6.2 Cartographic sources

1765 Edgar, W *City and castle of Edinburgh*

1852 Ordnance Survey, Edinburgh: Sheet No. 30

1877 Ordnance Survey, Edinburgh: Sheet No. 30

1908 Ordnance Survey, Edinburghshire: Sheet 003.08

6.3 Other sources

Internet

British Geological Survey website;
<http://www.bgs.ac.uk> (accessed 22/07/2013)

IfA 'Standards and Guidance for an archaeological watching briefs' [online article], (28/10/2008)

<http://www.archaeologists.net/sites/default/files/nodefiles/ifa_standards_watching.pdf> accessed 22/07/2013.

National Map Library of Scotland website
<http://maps.nls.uk/> accessed June 2013

7 APPENDICES

7.1 Appendix 1 – Site registers

Photographic register

Frame no.	Direction	Description
001	W	Pre-excavation shot from the gantry
002		Pre-excavation shot from the gantry
003	SW	Pre-excavation shot from the gantry
004	SW	Pre-excavation shot from ground level
005	W	Working shot of bitumen removed
006	W	Mid-excavation shot showing upper made ground
007	W	Mid-excavation shot showing upper made ground
008		General work shot
009	SE	East extent mid-excavation showing W facing section
010	SE	Working shot
011	SE	East extent showing original floor of station wall
012	W	East extent showing horizontal stratification change
013	S	East extent showing bitumen surface in foreground
014	E	East extent W facing section at 1.5m
015	E	East extent W facing section at 1.5m
016	E	East extent W facing section at 1.5m
017	E	South extent W facing section at 1.5m
018	W	Working shot
019	W	Working shot
020	W	Working shot
021	SW	Station wall foundation
022	N	S facing section showing concrete layer above wall
023	N	S facing section showing concrete layer above wall
024	N	S facing section showing (014) wall
025	NW	S facing section showing (014) wall

Frame no.	Direction	Description
026	N	S facing section showing wall and detail of drain vent
027	SW	Working shot showing test excavation through coal slack
028	W	Section through coal slack layer
029	W	E facing section (shows possible footing)
030	NW	E facing section
031	E	W facing section
032	NE	W facing section showing possible footing and founds
034	W	View of trench from gantry
035	NE	S facing section of trench
036	N	S facing section of trench, detailing cobbles at base of wall (014)
037	N	S facing section of trench
038	NE	Working view of S facing section
039	E	W facing section of trench 1 showing layers of made ground
040	W	E facing section of trench 1
041	N	Detail of drain I S facing section of trench 1 cut into the wall
042	N	South facing section at final depth
043	N	Detail of drain I S facing section of trench 1 cut into the wall
044	S	View of clay natural at base of trench 1
045	W	View of clay natural at base of trench 1
046	W	View of clay natural at base of trench 1
047	SW	Final extent of trench 1 excavations
048	W	View of trench 1 from the gantry
049	S	Working shot of excavations through the clay base
050	W	Working shot of excavations through the clay base
051	S	View of Trench 2 from the walkway
052	SW	Location of Trench 2 within the station
053	S	Removal of concrete from trench 2
054	S	Working shot of trench 2 showing blaise surface

Frame no.	Direction	Description
055	S	Working shot of removal of blaise layer
056	N	View of brick wall in trench 2
057	N	View of brick wall in trench 2
058	N	Working shot of wall removal

Context register

Context no.	Area	Description
001	Tr.1	An orange/grey silt with gravel inclusions 0.05m deep
002	Tr.1	A light brown clay silt with inclusions of brick, stone and charcoal fragments. 0.2m thick
003	Tr.1	A light brown clay silt with high levels of crushed brick blaise
004	Tr.1	A grey clay silt with sandstone rubble inclusions
005	Tr.1	A light brown/orange clay silt with crushed and broken stone rubble 0.2m thick
006	Tr.1	A light brown clay silt with high levels of crushed brick
007	Tr.1	A grey clay silt with sandstone rubble inclusions 0.2m thick
008	Tr.1	Stone rubble layer below the concrete surface and 0.4m thick
009	Tr.1	A mixed deposit of clays, silts and rubble. Modern deposit.
010	Tr.1	A coarse concrete aggregate 1m below the surface (51m OD)
011	Tr.1	A grey brown silty clay with inclusions of sandstone rubble and brick fragments
012	Tr.1	A layer of black fine gravel-coal slack forming a old surface for the rails 1.2 m below the surface
013	Tr.1	A compact silt clay with inclusions of stone, brick fragments and coal lumps below 010 and 012
013	Tr.1	A E-W aligned stone wall with a concrete capping and cobble stone foundation.
014	Tr.2	An E-W aligned brick wall with a concrete capping 0.7m tall and 0.4m below the surface.

Drawing register

Drawing no.	Plan	Section	Description
001		1:20	South facing section showing sandstone wall
002	1:50		Location plan of Trench 1
003		1:20	West facing section of Trench 1

7.2 Appendix 2 – Discovery and Excavation in Scotland entry

Please delete this section if you are not working in Scotland or if for other reasons not applicable.

LOCAL AUTHORITY:	City of Edinburgh Council
PROJECT TITLE/SITE NAME:	Archaeological works at Waverley Station, Edinburgh
PROJECT CODE:	WSEN13
PARISH:	Edinburgh
NAME OF CONTRIBUTOR:	Donald Wilson
NAME OF ORGANISATION: Headland	Headland Archaeology
TYPE(S) OF PROJECT:	Watching brief
NMRS NO(S):	None
SITE/MONUMENT TYPE(S):	None
SIGNIFICANT FINDS:	None
NGR (2 letters, 8 or 10 figures)	NT 2597 7393
START DATE (this season)	01/07/2013
END DATE (this season)	29/07/2013
PREVIOUS WORK (incl. DES ref.)	None
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	<p>Headland Archaeology Ltd undertook a watching brief on the excavation of two trenches associated with the construction of two lift shafts for the raised walkway at the Calton Road entrance to Waverley Station, Edinburgh. The monitoring was undertaken in order to identify and record any archaeological remains exposed during the works. The work was commissioned by C Spencer Ltd on behalf of Network Rail, and to a specification agreed with Edinburgh City Council.</p> <p>Two deep trenches were excavated at the base of the raised walkway, one to the outer side of the station and one inside the station building. The external trench revealed part of an earlier platform edge relating to a late 19th century layout of the station. A second platform was exposed within Trench 2 relating to an earlier configuration of the station</p> <p>No features relating to the pre-railway period (1850's) of the area were uncovered during the watching brief and no artefacts of archaeological significance were recovered.</p>
PROPOSED FUTURE WORK:	none
CAPTION(S) FOR ILLUSTRS:	
SPONSOR OR FUNDING BODY:	C Spencer Ltd
ADDRESS OF MAIN CONTRIBUTOR:	13 Jane Street, Edinburgh EH6 5HE
EMAIL ADDRESS:	office@headlandarchaeology.co.uk
ARCHIVE LOCATION (intended/deposited)	RCAHMS