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## **Braid Burn Flood Prevention Scheme (WU12) Adelphi Place, Edinburgh**

### **Archaeological Watching Brief**

**Report No. 1727**

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## **1. INTRODUCTION**

### **1.1 General**

- 1.1.1 This report presents the results of an archaeological watching undertaken by CFA Archaeology Ltd (CFA) from February to June 2009 at Adelphi Place, Portobello, Edinburgh (NGR: NT 303 740), during groundbreaking works associated with the Braid Burn Flood Prevention Scheme. The work was commissioned by The City of Edinburgh Council. A Written Scheme of Investigation (WSI) for the project was produced by CFA based upon documents provided by City of Edinburgh Council Archaeological Service (CECAS).
- 1.1.2 The groundbreaking works at Adelphi Place consisted of an excavation for a culvert of circa 250m long by 5m wide and circa 2.5m deep (Fig. 1). The route of the culvert was aligned northeast to southwest and was bounded on its western side by a bank of demolition material used in the landscaping and ground levelling work for the modern business park. On its eastern side ran a red-brick wall the length of the culvert. A structural survey of this wall had previously been undertaken by Cressey (2008) and has been issued under a separate cover. This work, Work Unit 12 (WU12), was part of the Braid Burn Flood Prevention scheme.
- 1.1.3 An archaeological watching brief was required by CECAS because of the possibility of buried remains associated with the 18<sup>th</sup> and 19<sup>th</sup> century pottery and brick and tile factories, within the area of development (See below).

### **1.2 Historical Background (Haggerty 2009b)**

- 1.2.1 In 1765 William Jamieson an Edinburgh speculative builder bought a 10 acre plot of land to the east and adjacent to the Frigate Burn in Portobello upon which he built a Redware brick and tile factory. Jamieson also built a white ware pottery initially either for the manufacture of White Salt Glazed Stoneware or Creamware or possibly both, and later for the manufacture of Pearlware, Prattware and possibly painted wares. By 1795 the white ware pottery had been leased to Cookston & Jardine, an Edinburgh china retailer.
- 1.2.2 During the later 18<sup>th</sup> century a number of other potteries began production in Portobello. A George Dawson had in 1782 taken out a ninety-nine year lease on the three acres of land bounded by the sea on the opposite side of the Frigate burn from Jamieson. An inventory of his possessions show that he may have been producing cream ware as among his possessions were ten dozen plate moulds, five dozen dish moulds and a mill and a half mill of saggars. Similarly Anthony Hilcot was a redware potter, who had moved from Morrison's Haven to Portobello c. 1779 and where he operated both a pottery and brickworks. Later he was involved in the manufacture of a substitute, for very expensive cobalt, at his nearby blood works, and this must have been sold for use in the decoration of Porcelain or white earthenware.

- 1.2.3 By 1805 one of Jamieson potteries was in the hands of Thomas Yool. His daughter Grace married a Staffordshire potter, Thomas Rathbone, and their children were involved after Thomas death in 1826, with the running of the pottery until 1853. During the Rathbone period of ownership a large range of high quality ceramics in a number of different forms, fabrics and decoration were being produced.
- 1.2.4 From 1859 on Stoneware became the dominant ware produced and huge amounts of it were made including salt glazed, Bristol dipped and the new once fired white feldspar glazed cream jars, ginger beer, ale and other bottles.
- 1.2.5 The second large pottery at Portobello was purchased by Thomas Tough in 1840 which produced high quality stoneware and the mass production of more utilitarian stoneware such as bottles and spirit crocks. In 1867 the Pottery was acquired by Thomas Murray and A. W. Buchan who were in partnership until 1878, when it became A.W. Buchan & Co. This was the beginning of a relationship with Portobello and the Buchan family, which lasted until the closure of the Thistle pottery, as it had become, on the 29th June 1972 when they moved to Crieff.
- 1.2.6 Other pottery works in Portobello were the Abercorn Brick works run by William Creelman circa 1812 to 1839, which produced salt glazed and red earthenware garden furniture, and between circa 1830 to 1845 Hugh and Arthur Cornwell operated a third stoneware pottery, which also traded under different names including Milne and Cornwell.
- 1.2.7 The third quarter of 19<sup>th</sup> century saw dramatic changes in the British Publics taste in ceramics with the increase in tourism to Spain and the Mediterranean and it was Buchan's of Portobello that were in the forefront of this revolution.

### **1.3 Objectives**

- 1.3.1 The objectives of the watching brief were;
- The recovery of ceramics for further analysis and dating.
  - To determine the location, character, extent and quality of any features or objects of archaeological importance that may have survived within the application area, and which could have been damaged or destroyed by the development. In particular any remains associated with the various pottery and brick and tile factories that were located in this area during the 18<sup>th</sup> and 19<sup>th</sup> centuries.

## 2. WORKING METHODS

### 2.1 General

2.1.1 CFA Archaeology Ltd follows the Institute of Field Archaeologists Code of Conduct, Standards and Guidance for Archaeological Watching Briefs. Recording of all elements followed established CFA methods, principally by drawing, photography and completion of standard recording forms.

### 2.2 Watching Brief

2.1.2 The culvert was excavated using a mechanical excavator fitted with either a smooth-bladed ditching bucket or a toothed bucket according to the subsoil conditions. The excavation was conducted under constant archaeological supervision.

2.2.2 A methodology for the potential recovery of important ceramics, their associated moulds as well as brick and tiles was prepared by George Haggarty (2009 b) and was issued to the archaeologists in advance of the watching brief.

## 3. ARCHAEOLOGICAL RESULTS

3.1 The following text presents the results of the watching brief. Contexts numbers are given in bold and parentheses. Appendix 1 gives full descriptions including dimensions of these contexts.

3.2 There were a number archaeological features recorded within the culvert excavation trench, including brick walls, culvert drains and pits. A large artefact assemblage was also recovered including various types of ceramics, stoneware, glass bottles, glass slag, plaster of paris moulds, bricks and tiles. Details of these are contained in the report by George Haggarty (2009a).

3.3 The excavation was undertaken in 5m lengths starting from Adelphi place and continuing southward. The results are presented in the order north to south along the culvert excavation trench (Fig. 1). The excavated ground was largely made up of a variety of deposits and dumps of material for the purpose of building up and levelling the ground during the construction of the modern industrial park to the immediate west of the excavation. These deposits overlay the natural yellow sand subsoil (**005**). A full list of these deposits is given in Appendix 1

*Excavation from confluence chamber south to chainage 40.000. Remnant building structures.*

3.4 A number of red brick mortared walls, concrete floors, culverts, demolition material and various imported deposits were recorded in this section. Some of these features are thought to be the remains of the basements of the buildings that are depicted on the 1<sup>st</sup> and 2<sup>nd</sup> Ed OS map as having once occupied this area (Figs. 4 and 5). These basements or cellars were founded within the natural sand subsoil (**005**) and were generally in-filled and buried with a

black-grey silt matrix (**101**) which contained numerous lenses and deposits of various demolition related material.

- 3.5 First encountered was a set of three parallel red brick walls (**112**, **113** and **114**), aligned southeast to northwest. Based on the stratigraphy these walls may represent at least two successive building phases. The first phase of building began with the laying of a concrete slab (**117**) on top of which was laid a red brick floor (**116**). The floor was abutted by wall (**114**) which also keyed into a wall (**009**) to the south, forming two sides of a rectangular structure with a red brick floor. The second putative phase of building began with the laying of another concrete floor (**115**) over the original red brick floor (**116**), and it was on top of this that parallel walls (**112** and **113**) were built. These walls continued out of the excavation trench.
- 3.6 Immediately southwest of walls (**112**, **113** and **114**) was a large metal tank (**119**) and the corner of a wall (**023**) projecting from the southeast facing section of the excavation.
- 3.7 Southwest of wall (**023**) were four walls of a room (**009**, **011**, **118** and **020**). Incorporated into wall (**009**) was an arched doorway (**010**) beyond which lay the remains of the putative room defined by the red brick floor (**116**) and wall (**114**) (Figs. 2 and 3). Immediately to the south of this room and projecting from the western edge of the excavation was the corner of a square concrete block (**012**) on top of which was a square of brick work (**013**). The bricks were stamped with the word 'Thistle' and were manufactured at Thistle Pottery Portabello which operated from 1770-1972 (Douglas and Oglethorpe 1993).
- 3.8 To the south of the room (**009**, **011**, **118** and **020**) were the probable remains of another room defined by two walls and a concrete floor. Wall (**001**) was aligned southwest to northeast and keyed into wall (**003**) of which only two courses survived. Walls (**001** and **003**) also overlay a concrete slab (**008**) which was probably the remains of a floor.
- 3.9 At 1.4m below current ground surface and south of walls (**001** and **003**) were two parallel red brick walls set 2m apart (**099** and **100**). They were aligned northeast to southwest and abutted with wall (**102**) which was aligned northwest to southeast.
- 3.10 A further two possible red brick built rooms and associated drainage were recorded to the south of wall (**102**). The first was defined by three walls. Wall (**104**) was aligned east to west and keyed into wall (**105**) which was aligned northwest to southeast, which in turn keyed into wall (**106**) which was aligned northeast to southwest.
- 3.11 The second room was defined by two returning walls (**098 lower** and **109 upper**), that were separated by a lens of rubble and soil (**107**). Both walls (**098** and **109**) returned and continued along the southeast facing section of the trench as did the probable demolition layer (**107**). Abutting walls (**098** and **109**) to the east was wall (**108**) distinguished from the other walls by the fact that the bricks were end set rather than edge set.



- 3.12 Three culverts were recorded in association with walls (**106** and **098**). A culvert (**103**) was incorporated into the lower courses of wall (**106**). It was aligned northwest to southeast and fed into a further culvert (**110**) aligned east to west which ran across the width of the excavation. A third culvert (**097**) also fed into culvert (**110**) on its southern side.
- 3.13 The remnants of four other red brick built walls were recorded south of wall (**109**) and appear in isolation. They were as follows (**093**) aligned northwest to southeast, (**082**) aligned northeast to southwest, (**121**) aligned north to south and (**066**) aligned north to south.
- 3.12 A fragmented concrete slab (**067**), possibly the remains of a floor was recorded 2m below current ground surface adjacent to but not abutting wall (**066**).

*Excavation from chainage 120.000 to 00.000. Pits and pottery dumps.*

- 3.13 A number of pits and dumps containing pottery, glass and stoneware were recorded during the excavation of this section of the culvert.
- 3.14 A large pit (**036**) was partially exposed within the trench it measured 20m by 2.75m deep was filled with deposits of ash, shale, mortar, redware brick fragments, glass slag, circular extruded redware tile and double circular extruded redware tile (**035**). The pit was straight sided, suggestive of being excavated by machine and cut the sandy natural subsoil (**096**) and was sealed by a deposit dark clay and sand (**033**).
- 3.15 A spread of broken and crushed glass (**031**) was recorded in the northeastern facing section of the excavation and measured 10m long by 0.5m deep and was underlying a deposit of hardcore (**025**) and overlay a deposit of cinders and ash (**044**). Underlying (**031**) at its southern end and seen in section only was a small pit (**042**) measuring 1m long by 0.5m deep, recovered finds included stoneware shards consisting mainly of Buchan's hand painted polychrome wares with some monochrome wares in red, blue and green (**043**). Also underlying deposit (**031**) was a concentrated deposit of mixed ceramic material and glass, large lumps of glass, earthenware and stoneware shards including fragments of three bed warmers, monochrome bowl, cream jugs, graveside flower blocks and white slipped redware dairy bowl (**032**).
- 3.16 To the south of pit (**031**) was another pit (**040**) which was partly exposed in the northeast facing section of the excavation and measured 30m long by 0.5m deep. Recovered finds included complete stoneware jars, pots and whiskey flagons as well as shards of whiskey flagons within its fill (**041**). The pit was sealed by an embankment of mixed and disturbed silty soils (**054**) and cut a deposit of silty sand (**045**). A dump of stoneware (**047**) was recorded in this embankment material.
- 3.18 Opposite pit (**040**) was a small pit (**038**) which was partly exposed and was 8m long by 0.5m deep. Recovered finds included a stoneware whisky flagon



marked 'Ye Monks', a bed warmer as well as Buchan's small hand painted jar in the Festival pattern and shards of Buchan's hand painted monochrome stoneware in green, red, black and blue. These shards were from skillets, saucers, milk jugs, condiments, small creamers, flower blocks, dishes and a portovase. The pit was sealed by topsoil (029) and cut deposit (045).

- 3.19 Opposite to and at the southern end of pit (040) was a pit (058) which was partly exposed in the northwest facing section of the excavation which measured 15m long by 0.2m deep. Recovered finds included four stoneware vessels including two large Buchan's mugs a vase and a bottle, as well as undecorated stoneware bottles, a hand painted bottle in Buchan's 'Riveria' style, a small marked dish without its handle, and part of a large stoneware whisky crock (059). Pit (058) was also sealed by deposit (029) and was cut into deposit (045).
- 3.20 Pit (063) was seen in the northeast facing section of the excavation and measured 1.8m long by greater than 1m wide by 0.7m deep. Recovered finds included mixed stoneware including some hand-painted forms, and a green monochrome posy dish and a shard marked '1950-6' o8 '8'. The pit was sealed by topsoil (029) and cut through a deposit of cinders, ash and broken red bricks (065).
- 3.21 Four possible pit cuts (060, 070, 083 and 089) were recorded at the southern end of the excavation. However their cuts were somewhat irregular and indistinct and may represent lenses or dumps of materials within deposit (045) rather than excavated pits. All four features underlay topsoil (029). Pit (060) was recorded in the northwest facing section of the excavation and measured 7.5m long by 0.5m deep. Finds recovered included shards of both small and large flagons, as well as small inkwells; handled bed warmer and monochrome wares. Pit (070) measured 3m long by 3m wide by 1m deep. Recovered finds included assorted shards of Buchan's stoneware, two tone crocks and flagons, jars and blue monochrome cups and paste jars, as well as four complete glass jars. Pit (083) measured 1m long by 1m wide by 0.6m deep. Recovered finds included assorted stoneware. Pit (089) measured 1.2m long by 0.4m wide by 0.5m. Recovered finds included mixed ceramic shards including Buchan's monochrome brown and blue wares, hand painted wares, whisky flagons, flower blocks and bed warmers.
- 3.22 Two distinct deposits of material (069 and 072) were also recorded within (045). Deposit (069) measured 3m long by 1.25m wide and 0.45m deep. Recovered finds include glass jars of varying colors and shapes including one marked 'James Woodrow Dunfermline and another 'Alloa', and deposit (072) was a spread of miscellaneous bottle tops with attached tin covers which measured 3m long by 0.8m wide by 0.1m deep.

#### **4. CONCLUSION**

- 4.1 An archaeological watching brief was carried out during the excavation of a culvert as part of the Braid Burn Flood Prevention Scheme. The watching brief was required by CECAS as the 18th century Portobello pottery, brick and tile works, once stood adjacent to the development area to the west.
- 4.2 Building remains were found at the north end of the excavation. It is probable that these remains represent the basements or cellars of buildings depicted on the 1<sup>st</sup> and 2<sup>nd</sup> edition Town Plan (Figs. 4 and 5).
- 4.3 A number of pits containing pottery and pottery dumps were found along the course of the culvert excavation. The pottery and glass from these dumps has been assessed by George Haggerty (2009a). These dumps of material were found within ground that had been built up with demolition material. The pottery finds were dated to the 1950's and in the main were manufactured by Buchan's pottery works. This ceramic assemblage is important as it reflects post World War II changing tastes in pottery styles. These changes in taste came about with the advent of package tours which subjected the mass market to new foods, drinks, styles and decoration. The pottery provided a counterpoint to the wartime austerity with mainly Spanish inspired designs adopted. Also new forms like oil and vinegar bottles were also introduced, again reflecting the changing attitudes to consumerism in the 1950's. (Haggerty 2009a).
- 4.4 The crushed glass, deposits of bottle tops and lumps of cullet that were recovered are suggestive of glass recycling and manufacturing taking place on this site as well.
- 4.5 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 City of Edinburgh Council Sites and Monuments Record.

## 5. BIBLIOGRAPHY

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## APPENDIX 1: Context Register

Context No	Cut or Fill	Description	Length (m)	Width (m)	Depth/Height (m)
001		Red brick wall	2.5	0.5	1.6
002		Buried hardstanding concrete	0.25		0.5
003		Red brick wall abutting 001	2		0.25
004		Demolition material	2		0.3
005		Natural sand subsoil			
006		Demolition material		1.75	0.25
007		Brown sand		2	1.2
008		Concrete foundation		3	0.2
009		Cellar wall	3	1.4	2.5
010		Brick arched passage		1.7	0.2
011		Wall abutting 010	3.5	1.5	2.4
012		Concrete foundation	1.1	0.9	
013		Pillar	1	0.8	0.4
014		Crushed brick			0.05
015		Stone chippings			0.04
016		Mixed silty sand			0.3
017		Stone chippings			0.15
018		Sand, brick, rubble and demolition material			0.3
019		Tarmac and concrete			0.2
020		Red brick wall	1	0.37	1
021		Iron pipe			
022		Unassigned			
023		Corner of red brick wall	3	2	0.65
024		Hardcore			0.18
025		Mixed hardcore and soil			0.6
026		Mixed fill of ash and brick			0.22
027		Bottle tops and assorted lids			0.4
028		Disturbed soil			0.5
029		Overburden and topsoil across length of excavation			0.2
030		Mixed deposit of topsoil and sand			0.6
031		Crushed glass deposit	10	1	0.5
032		Deposit of stoneware and bricks			0.6
033		Mid-brown clayey sand			1.5
034		Unassigned			
035	Fill of 036	Deposit of ash, shale, mortar, brick and metal pipe			
036	Cut of pit	Large pit	20	1.75-2.75	1.75-2.75
037		Loose dark brown clayey sand	6	2.5	1
038	Cut of pit	Cut of pit filled with stoneware	8	1.2-2.5	0.5
039	Fill of 038	Fragments of Stoneware			
040	Cut of pit	Cut of pit filled with sherds of glass and	30	0.5-2	0.5

Context No	Cut or Fill	Description	Length (m)	Width (m)	Depth/Height (m)
		stoneware			
041	Fill of 040	Deposit of glass, lids and stoneware			
042	Cut of pit	Pit	1		0.5
043	Fill of 042	Fragments of stoneware			
044		Deposit of cinders and ash	2		0.6
045		Deposit of mid-brown sandy silt	4.75		1.5
046		Deposit of dark brown silt containing fragments of pottery	4.75		0.25
047	Possible cut of pit	Cut of possible pit or dump of brick and stoneware material	3.4		1
048		Concrete surface of car park	4		0.1
049		Overburden of hardcore material	4		0.15
050		Deposit of mixed soils	4		0.8
051	Fill of 89	Stoneware			
052	Fill of 047	Deposit of brick and stoneware	3.4		1
053		Deposit of sherds of glass bottles	2.8		0.15
054		Mixed and disturbed soils	2.2		0.3
055		Deposit of plaster of paris	0.8		0.15
056		Deposit of brown silt	1.2		0.35
057		Deposit of brown silt	1		0.3
058	Cut of pit	Cut of small pit	15	2	0.2
059	Fill of 058	Fragments of stoneware			
060	Cut of pit	Cut of small pit or possible dump of material	7.5		0.5
061	Fill of 060	Fragments of stoneware			
062		Deposit of overburden of ash, cinders, silt and fragments of stoneware			0.5-2.5
063	Cut of pit	Cut of possible pit or dump of material	1.8		0.7
064	Fill of 063	Deposit of fragments of stoneware and bricks			
065		Deposits of cinders and ash	2.1		0.2
066		Red brick work	9		0.2
067		Concrete surface	9	3.5	0.2
068		Brick rubble		3.75	0.75
069		Deposit of fragments of glass bottles	3	1.25	0.45
070	Cut of pit	Possible cut of pit or dump of material	3	3	1
071	Fill of 070	Fragments of stoneware			
072		Fragments of glass bottles and bottle lids	10	0.8	0.1
073		Deposits of backfill material	30	0.9	1.2
074		Deposit of sand backfill within service trench	60	0.9	0.5
075		Deposit of cinders and ash	10	1.2	0.2
076		Deposit of reddish brown sandy silt		2	0.2
077		Overburden material	>2		0.4
078		Deposit of brick, rubble and shale	>2		0.1
079		Thin lenses of mixed deposits			

Context No	Cut or Fill	Description	Length (m)	Width (m)	Depth/Height (m)
080		Overburden material			
081		Deposit of disturbed orange clayey sand			
082		Brickwork foundation	2.2	1.2	0.8
083		Spread of stoneware	1	1	0.6
084		Deposit of stoneware			
085		Deposit of black silt		3.75	1.5
086		Deposit of grey ash containing tile fragments	>1,4		0.6
087		Deposit of orange sand	1		0.1
088		Deposit of dark brown silt	>2		0.8
089	Cut of pit	Or possible dump of stoneware	1.2	0.4	0.5
090		Deposit of grey ash containing some fragments of pottery	>2		0.4
091		Deposit of mottled orange sand	>2		0.6
092		Deposit of dark grey-black silt	>2		0.4
093		Red brick work	1		0.6
094		Made-up ground	1.2		2
095		Topsoil and overburden (Same as 029)	Same as 029		0.6
096		Natural sand subsoil			
097		Red brick culvert		0.6	0.7
098		Red brick wall	2.3	0.4	0.9
099		Red brick wall	5.5	0.6	0.5
100		Red brick wall	5.5	0.6	0.2
101		Made ground	Length of excavation		Varies
102		Red brick wall	4	0.5	0.6
103		Culvert		0.6	0.7
104		Red brick wall	1.8	1.8	0.5
105		Red brick wall	1.1	0.5	0.2
106		Unassigned			
107		Demolition layer of rubble and red brick	>5		0.6
108		Red brick wall	0.45	0.5	1.4
109		Red brick wall	>5		0.4
110		Red brick culvert	2.8	0.8	0.6
111		Partial brick floor	1.1	1	0.2
112		Red brick wall	0.6	0.1	0.5
113		Red brick wall	1.4	0.1	0.5
114		Red brick wall	2.4	0.2	1
115		Concrete base	0.6		0.1
116		Red brick floor	1.1	2	0.1
117		Concrete base	2		0.1
118		Brick wall	3.7	0.5	2
119		Iron tank			
120		Concrete surface Adelphi Place			

Context No	Cut or Fill	Description	Length (m)	Width (m)	Depth/Height (m)
121		Red brick work	2		0.6

## APPENDIX 2: Photographic Register

### *Digital*

Shot	Description	From	Conditions
1	Brickwork 001 in plan	S	Sunny
2	Top of culvert 097 under excavation	NE	Sunny
3	Top of culvert showing culvert 110 being exposed	NE	Sunny
4	Culvert 110 in section	SE	Sunny
5	Culvert 110 in section and plan	SE	Sunny
6	Working shot at 180.000-175.000 chainage 180.000	SE	Sunny
7	Culvert 097	NE	Sunny
8	Culvert 097	NE	Sunny
9	Culvert 097	NE	Sunny
10	Working shot at chainage 150.000	SE	Sunny
11	NE facing section at chainage 170.000	NE	Sunny
12	Top of wall 109 under excavation	SE	Sunny
13	NE facing section at 155.00	NE	Sunny
14	NE facing section at 155.00	NE	Sunny
15	Chainage 155.000-150.000	NW	Sunny
16	NE facing section at 150.000	NE	Sunny
17	NE facing section at 150.000	NE	Sunny
18	Blue grey subsoil at chainage 150.000-145.000	NE	Sunny
19	General shot of excavation from chainage 145.000	NE	Sunny
20	General excavation shot of walls 011 and 009	SE	Sunny
21	Shot of arch 010 and wall 009 and made ground	S	Clear
22	Shot of arch 010 and wall 009 and made ground	S	Clear
23	Shot of arch 010 and wall 009 and made ground	S	Clear
24	Shot of arch 010 wall 009 and 011	SE	Clear
25	Shot of arch 010 wall 009 and 011	E	Clear
26	Shot of arch 010 wall 009 and 011	SE	Clear
27	General shot of trench excavation	NE	Clear
28	Shot of arch 010, wall 009 and 011	SE	Clear
29	General shot of masonry 013	W	Clear
30	General shot of vegetation strip	N	Clear
31	Shot of Masonry 013	NW	Clear
32	Details of masonry 013 and concrete foundations 012	W	Clear
33	Detail of masonry 013 showing render	W	Clear
34	General shot of trench excavation	NW	Clear
35	General shot of trench excavation	NW	Clear
36	Shot of wall 009 and concrete 018 and 020	SW	Sunny



Shot	Description	From	Conditions
37	Shot of wall 009 and concrete 018 and 020	SW	Clear
38	Shot of wall 009 and concrete 018 and 020	SW	Clear
39	Shot of excavated cable within trench	SW	Clear
40	Shot of concrete deposit 018	SW	Clear
41	Shot of masonry 009 and concrete 018 and 020 and make up of deposits under modern car park	SW	Clear
42	Shot of 018 and wall 020	S	Clear
43	Shot of west FACING section of excavated trench showing sequence of deposits	W	Clear
44	Shot of sand 005 at limit of excavation	W	Clear
45	Shot of vegetation strip along line of excavation	N	Clear
46	Shot of vegetation strip along line of excavation	N	Clear
47	Shot of vegetation strip along line of excavation showing brick and concrete deposits in plan 009 and 020	N	Overcast
48	Shot of vegetation strip along line of excavation showing brick and concrete deposits in plan 009 and 020	W	Overcast
49	Shot of 009 in plan	SE	Overcast
50	Shot of 009 in plan	E	Overcast
51	Working shot of excavation within trench	SE	Overcast
52	Shot of excavation through masonry 009	NW	Overcast
53	Shot of excavation through masonry 009	E	Overcast
54	Shot of reception tank	E	Overcast
55	General working shot in chainage 195.000-190.000	NE	Sunny
56	General working shot in chainage 195.000-190.000	NE	Sunny
57	Wall 099 general	NE	Sunny
58	Wall 099 general	NE	Sunny
59	Wall 100 general	NE	Sunny
60	Wall 100 general	NE	Sunny
61	Wall 100 general	NE	Sunny
62	Wall 100 general	NE	Sunny
63	Wall 100 general	SW	Sunny
64	Wall 100 general	SW	Sunny
65	Wall 100 general	SW	Sunny
66	Mid-excavation revealing brick wall 082	SE	Sunny
67	Chainage 130.000-125.000	N	Sunny
68	082 in SE facing section	NE	Sunny
69	N facing section of 125.000	S	Sunny
70	Stripping and leveling course of culvert excavation	S	Sunny
71	SE facing section of embankment running length of excavation showing spread of bottle tops	NE	Sunny
72	SE facing section of embankment running length of excavation showing spread of bottle tops	NE	Sunny
73	Detail of frog marked brick		Sunny
74	Mid-excavation of chainage 125.000-120.000 showing division between natural sand subsoil and disturbed ground	S	Sunny
75	Mid-excavation of chainage 125.000-120.000	NW	Sunny
76	Mid-excavation of chainage 120.000-115.000	NE	Sunny

<b>Shot</b>	<b>Description</b>	<b>From</b>	<b>Conditions</b>
77	Mid-excavation of chainage 120.000-115.000	NE	Sunny
78	Mid-excavation of chainage 120.000-115.000	S	Sunny
79	Mid-excavation of chainage 120.000-115.000	S	Sunny
80	Chainage 115.000-110.000 showing cut 036	E	Sunny
81	SE facing section of embankment	NE	Sunny
82	Chainage 110.000-105.000 showing natural sand along SE section	NE	Sunny
83	Chainage 110.000-105.000 showing natural and 037	NE	Sunny
84	Chainage 110.000-105.000 east SE facing section mid-excavation	N	Sunny
85	Chainage 110.000-105.000 mid-excavation	NE	Sunny
86	NE facing section chainage 110.000-105.000	NE	Sunny
87	038 in plan	Vertical	Sunny
88	038 in plan	N	Sunny
89	038 and 040 in plan	NE	Sunny
90	040 in plan	NE	Sunny
91	040 in plan	E	Sunny
92	SE facing section chainage 110.000-105.000	E	Sunny
93	Mid-excavation E facing section chainage 110.000-105.000	NE	Sunny
94	Mid-excavation chainage 110.000-105.000	NE	Sunny
95	Mid-excavation chainage 110.000-105.000	N	Sunny
96	Mid-excavation chainage 110.000-105.000	NW	Sunny
97	NE facing section chainage 110.000-105.000	NW	Sunny
98	Chainage 95.000-90.000 under excavation	E	Sunny
99	Chainage 80.000-75.000 pre-excavation	E	Sunny
100	NE facing section chainage 80.000	E	Sunny
101	SE facing section mid-excavation chainage 80.000-75.000	NE	Sunny
102	NE facing section mid-excavation chainage 80.000-75.000	N	Sunny
103	Leveling operations	N	Sunny
104	SE facing section of pit 047	SE	Sunny
105	SE facing section of pit 047	SE	Sunny
106	Leveling operations	NW	Sunny
107	Pit 047 in section	SE	Sunny
108	NE facing section chainage 75.000-70.000	NW	Sunny
109	NE facing section chainage 75.000-70.000	NW	Sunny
110	Pre-excavation chainage 70.000-65.000	NE	Sunny
111	SE facing section chainage 70.000-65.000	S	Sunny
112	NE facing section chainage 65.000	NE	Sunny
113	NE facing section chainage 65.000	NE	Sunny
114	Pre-excavation chainage 65.000-60.000	E	Sunny
115	Mid-excavation chainage 65.000-60.000	NW	Sunny
116	NE facing section chainage 60.000	NW	Sunny
117	NE facing section 60.000-55.000	NW	Sunny
118	SE facing section chainage 55.000-50.000	SE	Sunny
119	NE facing section chainage 50.000	NW	Sunny

Shot	Description	From	Conditions
120	Mid-excavation of chainage 50.000-45.000 showing concrete surface and brickwork	NW	Sunny
121	Mid-excavation of chainage 50.000-45.000 showing concrete surface and brickwork	NW	Sunny
122	NE facing section 50.000-45.000 with concrete visible in section	NW	Sunny
123	SW facing section chainage 50.000-45.000 with brickwork and concrete surface visible	W	Sunny
124	NE facing section chainage 170.000 showing concrete slab	NW	Sunny
125	Confluence chamber looking north	S	Sunny
126	Existing culvert at south end of confluence chamber	W	Sunny
127	Leveling operations at south end of excavation	NW	Sunny
128	Confluence chamber west side	E	Sunny
129	Confluence chamber looking north	S	Sunny
130	Leveling operations at south end of excavation	NE	Sunny
131	Confluence chamber west side	E	Sunny
132	Confluence chamber west side	NE	Sunny
133	SE facing section chainage 40.000-35.000	E	Sunny
134	Mid-excavation of chainage 40.000-35.000	NE	Sunny
145	View along route of culvert excavation from midpoint looking south	S	Sunny
136	View along route of culvert excavation from midpoint looking north	S	Sunny
137	View along route of culvert excavation from midpoint looking north	S	Sunny
138	View along route of culvert excavation from midpoint looking north	S	Sunny
139	SE facing bank at chainage 35.000-30.000	NE	Sunny
140	Leveling operations at south end of excavation	NW	Sunny
141	Worked cylindrical stone within wall at south end of excavation	SW	Sunny
142	Test pit against upstanding brick wall south end of excavation	S	Sunny
143	Excavation of test pit	SW	Sunny
144	NE facing section chainage 30.000	NW	Sunny
145	Test pit excavation at southern end of culvert excavation	SW	Sunny
146	Leveling operations at southern end of culvert excavation	NW	Sunny
147	Mid-excavation of chainage 30.000-25.000	W	Sunny
148	Mid-excavation of chainage 30.000-25.000	SE	Sunny
149	NE facing section 180.000-185.000	NW	Sunny

### APPENDIX 3: Drawings Register

Drawing No	Sheet No	Description	Plan/Section	Scale
1	3	NE facing section at chainage 180.000	S	1:20
2	3	NE facing section at chainage 175.000)	S	1:20
3	Day book sketch	SE facing section at chainage 180.000-175.000	S	1:20
4	Day book sketch	Plan of chainage 180.000-175.000	P	1:20

<b>Drawing No</b>	<b>Sheet No</b>	<b>Description</b>	<b>Plan/Section</b>	<b>Scale</b>
5	1	NE facing section at chainage 170.000	S	1:50
6	1	NE facing section at chainage 165.000	S	1:50
7	1	NE facing section at chainage 155.000	S	1:20
8	2	NE facing section at chainage 135.000	S	1:50
9	2	Plan of brick foundations within chainage 135.000-130.000	P	1:50
10	2	SE facing section at chainage 115.000-110.000	S	1:20
11	2	SE facing section at chainage 110.000-105.000	S	1:20
12	3	NE facing section at chainage 120.000	S	1:50
13	3	NE facing section at chainage 110.000	S	1:50
14	Day book sketch	SE facing section at chainage 105.000-100.000	S	1:20
15	1	NE facing section at chainage 95.000	S	1:50
16	1	SE facing section at chainage 95.000-90.000	S	1:20
17	1	NE facing section at chainage 80.000	S	1:50
18	2	SE facing section at chainage 65.000-6.000	S	1:20
19	2	NE facing section at chainage 65.000	S	1:50
20	2	SE facing section at chainage 70.000-65.000	S	1:100
21	3	NE facing section at chainage 60.000	S	1:50
22	3	SE facing section at chainage 55.000-50.000	S	1:20
23	3	NE facing section at chainage 50.000	S	1:50
24	3	NE facing section at chainage 45.000	S	1:50
25	4	NE facing section at chainage 35.000	S	1:50
26	4	NE facing section at chainage 30.000	S	1:50
27	4	Plan of chainage 200.265-205.265	P	1:50
28	4	SW facing section chainage 205.265	S	1:50
29	4	S facing section at chainage 210.265	S	1:20
30	4	SE facing section at chainage 20.000-15.000	S	1:20
31	5	SE facing section at chainage 25.000-30.000	S	1:50
32	5	NE facing section at chainage 25.000	S	1:50
33	5	NW facing section at chainage 10.000-15.000	S	1:50
34	5	NE facing section at chainage 05.000	S	1:50
35	6	Plan of chainage 110.000-65.000	P	1:50
36	7	Plan of chainage 165.000-130.00	P	1:50
37	8	Plan of chainage 130.00-00.000	P	1:50





Key:

□ Archaeological features

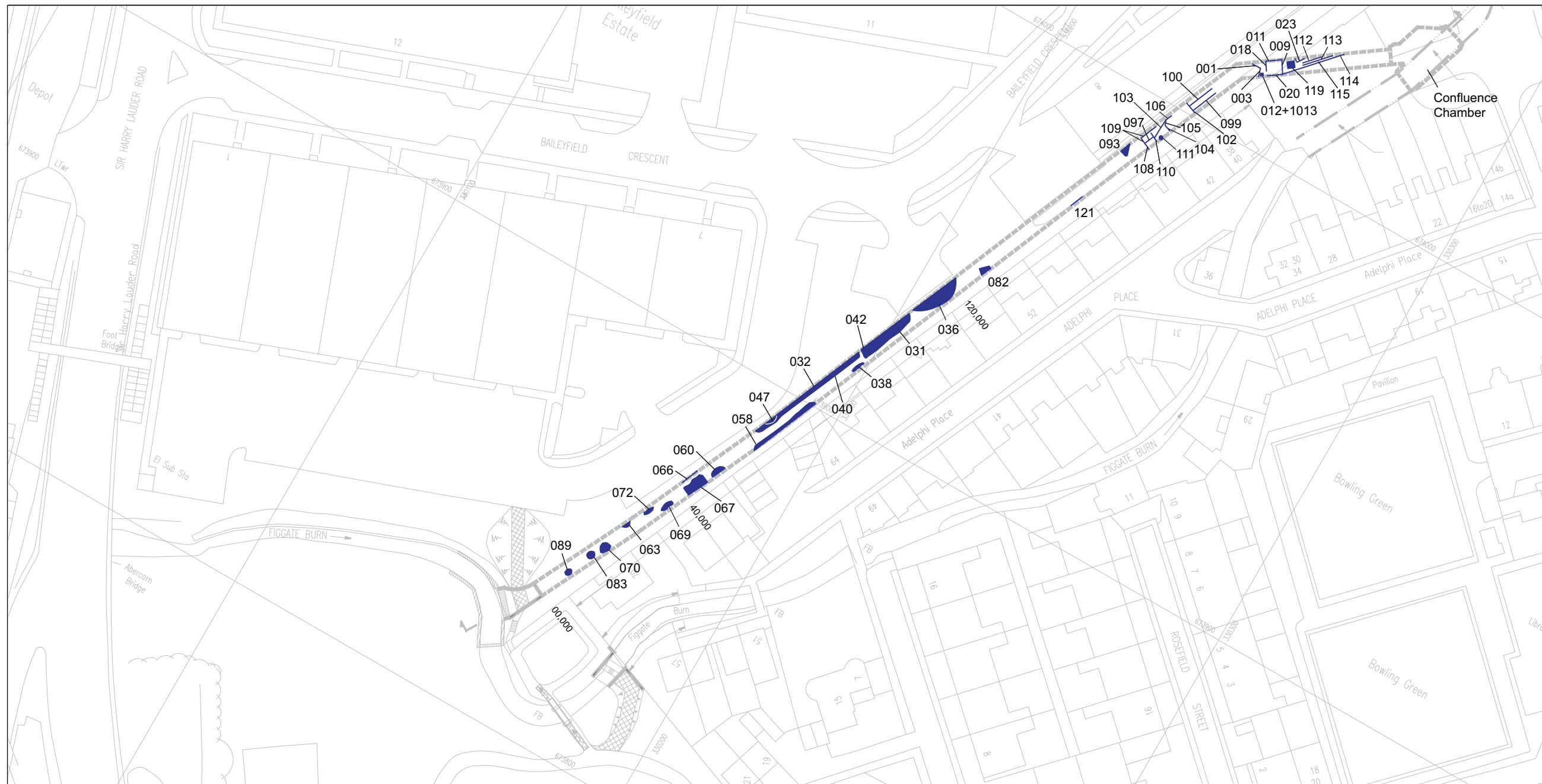
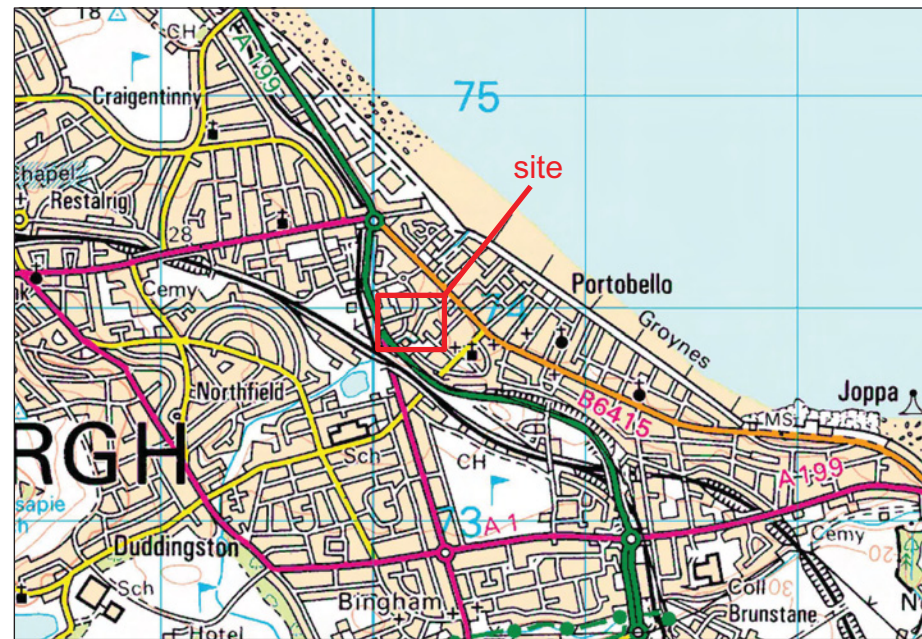


Fig. No: 1 Revision: A

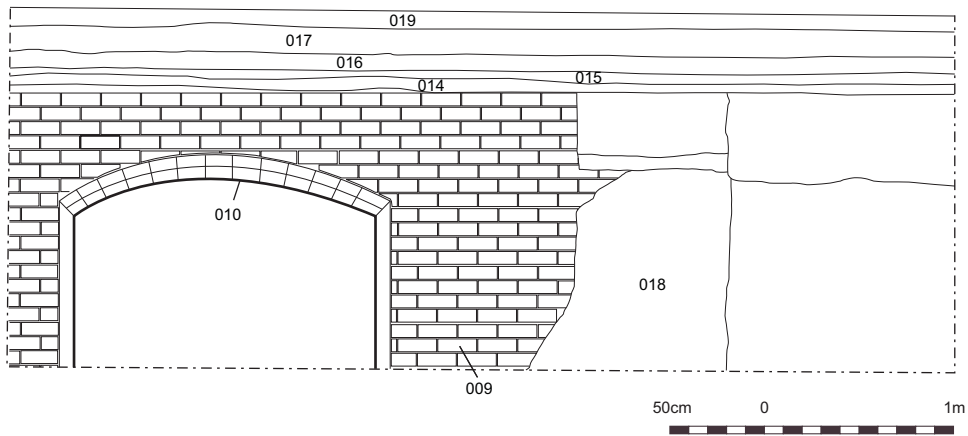
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Project: Leit 4 WU12

Scale: 1:1,000 @ A3

Client: City of Edinburgh Council

Drawn by: GC Report No: 1727



Key:

Fig. No:	2	Revision:	A	Client:	City of Edinburgh Council
Title:	Section showing Buried Walls and Arched Doorway				
Project:	Leit 4 WU12				

Scale: 1:40

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Key:

Fig. No: 3 Revision: A Client: City of Edinburgh Council

Title: Buried walls and Arched Doorway

Project: Leit 4 WU12

Scale:

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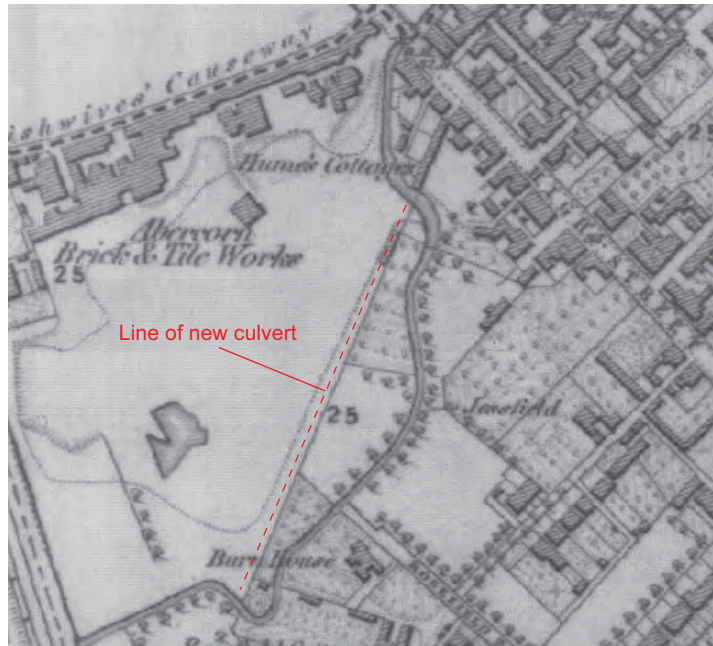


Fig. 4 Excerpt from 1st Edition Ordnance Survey Map, 1854

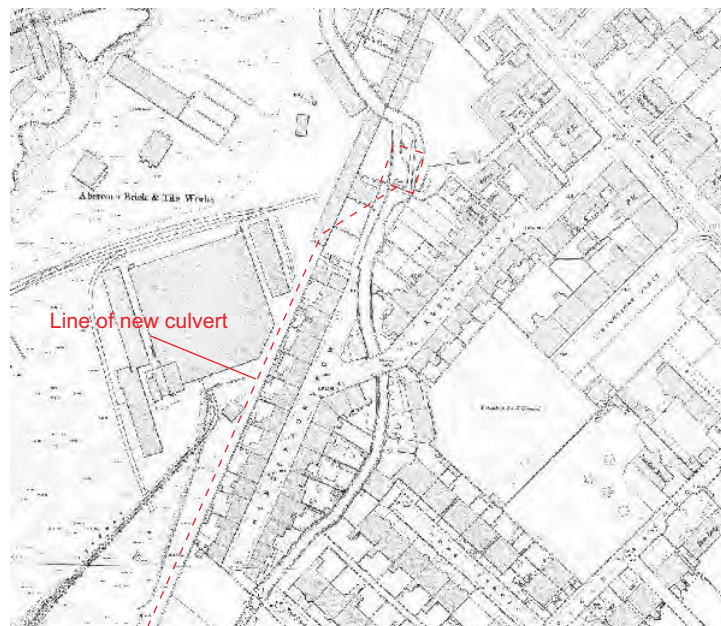


Fig. 5 Excerpt from 2nd Edition Ordnance Survey Map, 1893-94

Key:



Scale:

Fig. No:	4-5	Revision:	A	Client:	City of Edinburgh Council
Title: 1st and 2nd Edition Ordnance Survey maps showing rooved buildings on line of culvert excavation					
Project: Leit 4 WU12					



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