

## *Discovery and Excavation in Scotland*

Updated on 15/06/2007

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<b>NAME OF CONTRIBUTOR:</b>	D Murray
<b>NAME OF ORGANISATION:</b>	Kirkdale Archaeology
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<b>MAIN (NARRATIVE) DESCRIPTION:</b> (May include information from other fields)	A programme of standing building recording on elements of the gate tower was complemented by selective trenching at the base of the gate tower. The programme revealed how the 14th century tower was modified in the mid-16th century with new gun positions and also how the ditch profile was remodelled, in conjunction with further earthworks beyond the castle site itself. The work was completed in conjunction with ongoing restoration and consolidation works by Historic Scotland.
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<b>ADDRESS OF MAIN CONTRIBUTOR:</b>	4, Western Terrace, Edinburgh, EH12 5QF
<b>EMAIL ADDRESS:</b>	<a href="mailto:g_ewart@hotmail.com">g_ewart@hotmail.com</a>
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**Historic Scotland  
Properties in Care  
Minor Archaeological Works 2009-2010**

**Tantallon Castle**  
**Archaeological Excavation and  
Standing Building Recording,  
December 2009 – February 2010**

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**26 March 2010  
Kirkdale Archaeology**

**Site** Tantallon Castle Ditch Excavation and Standing Building Recording

**N.G.R** NT 59587 85029

**Project Description** Excavation 2 trenches at Tantallon Castle and Standing Building Recording of the Gatehouse.

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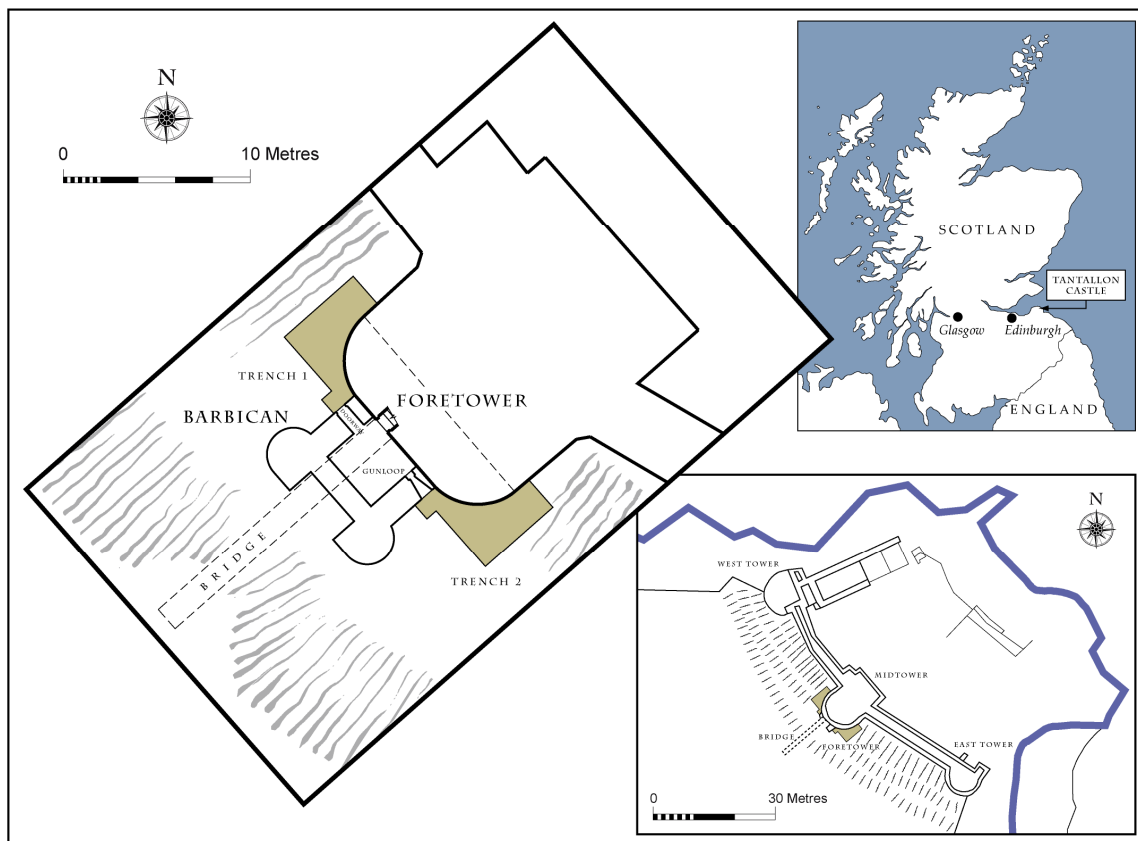
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## 1 INTRODUCTION

Under the terms of the PIC call-off contract Kirkdale Archaeology was asked by Historic Scotland to excavate two trenches at Tantallon Castle. These trenches were designed to answer questions about the original form of the gatehouse complex at the Castle, to inform its restoration.

Tantallon Castle is a spectacular medieval building complex located on the coastline of East Lothian between Dunbar and North Berwick. The site consists of a massive curtain wall with towers at either end and with a central gatehouse between these cutting off a cliff lined promontory jutting out into the sea. A major ditch protects the landward side of the site, with further defences out beyond this. For the purposes of this report the entrance to the castle is assumed to be orientated due S.



**Figure 1: Location Map**

Much of the site is thought to date to the middle of the fourteenth century, and to have been built by the Earl's of Douglas. This includes the massive curtain wall with its two end towers, as well as part of the central gatehouse. All these elements are built of red sandstone, which provides a striking backdrop against the sea.

The gatehouse itself comprises three discrete elements, all of different date. The Mid tower represents the original mid fourteenth century entrance to the Castle. At ground level this consists of two square towers projecting out to the E from the curtain wall with an entrance

gap of some 4.5 m between them. Higher up both these towers are corbelled out by a bartizan, above which both are circular and connected together by a bridge over the entrance gap. This work is built entirely of red sandstone, and incorporates details of construction, such as a wash course that are also reflected in the curtain wall.

At a date thought to be around 1400 AD this entrance was embellished by the construction of a Barbican. This consists of two walls built against the S face of the Mid tower, either side of its entrance, some 3.3 m apart. These project southwards into the ditch for some 9 m, terminating in semi circular buttresses. Much of this Barbican is either reduced to foundation level, or encased within later masonry, but it can be seen to have stood to at least three stories. It is built almost entirely of sandstone, with a variety of colours evident in its build.

The final major construction is the Fore tower, thought to have been built in the middle of the sixteenth century after the castle had come under royal control. This phase is very different in both design and execution from the earlier work. The whole South front of the Mid tower is projected forward some 3.7 m by a mass of masonry which curves at its SE and SW angles, with a flush South face between the walls of the Barbican. This work is a solid wall, except at entrance level, where two small chambers off the main entrance passage to the E and W lead to gun loops overlooking the ditch. The entrance is reduced to a narrow gap of 1 m at the S side of the original wide gateway. The N end of the Barbican is encased by this new masonry but the S end, although now much reduced, must have continued to function as its walls protrude through the S front of the Fore tower.

The Fore tower is built almost entirely of green Tuff, a local rock like the sandstone, but one that is much harder to work. It is rich in inclusions and somewhat friable, something that can be seen in the style of building of the Fore tower which uses irregular uncoursed masonry, rather than the well shaped often Ashlar work of earlier periods of construction. This work is split into horizontal bands by the use of red sandstone string courses at regular intervals up the Fore tower. Four of these survive as single course thickness bands, all above a two course wash course over the entrance to the castle. This wash course matches the height of that built into the earlier Mid tower. The two gun loops at this entrance level are picked out in red sandstone, and the masonry at this same height between the Barbican walls forming the entrance is built of well coursed red sandstone blocks.

Historic Scotland has been concentrating on restoring the masonry of the Fore tower, where it can clearly be seen that the green tuff is more susceptible to erosion than the areas of sandstone build. The effect of this is to leave the sandstone projecting forward of the green stone build, and the intention has been to reface these areas to restore its original appearance.

This programme of restoration had started at the top of the tower, where the masonry is relatively well preserved. As work progressed downwards it became clear that the Fore tower changes its profile towards its base. This caused a halt in the re-facing programme, and Kirkdale Archaeology were contracted to carry out a survey of the upstanding masonry, using the scaffolding that was in place for the repair work.

This building survey work demonstrated that although the lower masonry is in particularly poor condition, whether through collapse or stone-robbing, it can be seen that the Fore tower does indeed change shape at its lower level. This was particularly clear to the E of the Barbican, where at least the E face of the Fore tower seems to step out as much as half a meter from the build above, although its S face seems to be close to vertical. Evidence for a band of red sandstone facing at least 1 m high was also recorded low down on this side of the latest tower.

The two trenches were excavated on either side of the Barbican walls, and were designed to examine the shape of the building below ground level, where it was felt that its stonework might be better preserved. The work was carried out over two weeks at the beginning of February, once the scaffolding was removed from the gatehouse. Both trenches ran down the slope of the ditches inner edge, starting roughly 1 m W of the junction between Mid and Fore towers. They were "L" shaped in plan, following the build of the Fore tower, totalling some 5 m E-W by 5 m N-S, with a further protrusion of 800 mm to the S for the meter closest to the Barbican's walls. The trench to the W (trench 1) was carried through the door built into the side of the Barbican at ground level through the thickness of the wall, a distance of 1.6 m. A matching door to the E has been blocked and converted into a gun loop of similar design to those built into the Fore tower.

The trenches were hand dug, with spoil stored at the base of the ditch. At the end of the excavation these trenches were backfilled.

## 2 EXCAVATIONS

Trench 1 was started with the removal of topsoil **101** across its area. This proved to be mid brown silty clay rich in flecks of mortar up to 150 mm thick. Across the bulk of the trench (all but the SE corner) this sealed **102**, a thin layer of loose pale yellow mortar, thickest towards the NW corner of the trench. In the SE corner excavation was effectively restricted to a sondage separated from the main trench; this will be described at the end of the main trench account.

At the extreme N end of the trench after the removal of **102** a sequence of cut features were recorded, the fill of the uppermost of which was **118**. This was fine brown silt rich in mortar and charcoal flecks, and with some sandstone fragments throughout. This filled **123**, a shallow scoop up to 100 mm deep and 550 mm E- W that barely ran into the trench. **123** cut down into the top of **106**, grey silty clay with discrete patches of brown silty clay throughout with fragments of mortar, coal, charcoal and small sandstone fragments throughout. This in turn filled cut **107**, a vertical sided flat based feature, 440 mm deep, 350 mm E- W which again only just intruded into the trench.

**107** was dug down through the top of **103**, an extensive layer that seemed to cover the whole trench, although at the S end (away from the thicker deposits of mortar layer **102** above) this was very hard to separate from topsoil **101**. **103** comprised mid grey silt rich in small stones and with occasional coal and charcoal fragments throughout. **103** sealed a further cut feature **120** in the NE corner of the trench. Its fill **119** comprised mid brown sandy silt very rich in angular sandstone fragments. **120** was a wide (1.05 m) scoop 450 mm deep whose W edge sloped gently while its E edge was vertical. This E edge ran along the W face of the Mid tower's masonry (**121**), with its S end terminating just beyond the junction with the Fore tower (**110**), a distance of 1.55 m, there was noticeably more stone in the fill against these walls.

A further cut feature **146** was recorded below **103** towards the N end of the trench. Its upper fill **108** comprised loose pale yellow mortar rich in stones, and its removal left a circular shaped hole with steep sides and a flat base, 220 mm diameter and 350 mm deep. This was given a cut number **109**, and it bottomed on a flat sandstone fragment, with a carefully shaped edge. Further excavation showed that this stone was in a lower fill **145**, orangeish brown silty clay rich in charcoal. The removal of **145** emptied cut **146**, showing it to be an oval (300 by 350 mm) feature 400 mm deep with vertical sides and a rounded base.

Both **146** and **120** were dug down into the top of **104**. This comprised compact pale orangeish brown silty clay up to 180 mm thick at the N end of the trench, and thinning to the S, petering out some 1.9 m S of the N section, and sloping down to the S. This in turn sealed **105** moderately compact mid grey silty clay very rich in charcoal, which again petered out and sloped down to the S, ending 3.1 m from the N edge of the trench. This deposit was only part excavated, with two sondages going deepest.

The first sondage, a N- S trench in the NE corner (against the upstanding masonry of the gatehouse) of the main trench revealed a depth of 750 mm to **105**, only bottoming it at its S end. This sondage exposed the base of **121**, the masonry of the Mid tower. Up to six courses of this were revealed, in far better state of preservation than that found above ground.

Rectangular sandstone blocks were laid in probable regular courses, with traces of tool marks across their W face, bonded by a fine soft pale yellow mortar rich in shell fragments. At the S end of **121** three larger blocks formed a vertical end to the wall. There was some slight damage to this S end and masonry **110** (the Fore tower) was simply built against this.

At the base of **121** it was found to sit on **122**. This took the form of a N- S block of masonry, parallel to **121**, but extending 800 mm W and 400 mm S of it. **122** comprised larger squared sandstone blocks on its outer (W and S) faces, with a smaller rubble core, all bonded by a similar mortar to that in **121**. It seemed to have a good S face standing at least 2 courses high and a rougher W face, along with a flat upper surface. At the S end of the sondage **105** was bottomed and the upper surface of **114**, a loose deposit of grey silty clay very rich in charcoal, mortar and stones was exposed against the S face of **122** and the W face of **110**, but not excavated. Neither **122** nor **110** were bottomed in this sondage, but **110** was again built against the face of **122**, and it stepped out 150 mm to the W at the exact same height as the upper surface of **122**. This "lip" could be traced round the W side of **110**, petering out where it curved round to form its S face, where its erosion was more severe.

The second sondage dug down into **105** was an E- W trench across the main site, to the S of **121**, meaning that its E end was dug entirely against the Fore tower **110**. Below **105** the same deposit as in the other sondage **114** was revealed, but here it was excavated showing it to be 250 mm thick. **114** sloped down to both S and E, petering out to the S, and ending against masonry **110** to the E. To the W it sloped up and ended 1.7 m W of **110**. This was over **115** mid grey silty clay rich in charcoal, very similar to **105**, and at the W edge of the trench, where **114** ran out, it connected to **105**, showing **114** to be a lens within **105/115**.

At the S end of this sondage **115** sealed **124**, dark grey sandy silt very rich in charcoal which started at this sondage and continued down the trench to the S, dropping down with the ditch slope to run out the trench. **124** proved to be up to 150 mm thick and sealed **125**. This was orangeish brown silty clay, again rich in charcoal and running off site to the S which was only partly excavated. At its N end **125** petered out within the E- W sondage, and overlay **116**. This proved to be a thin (40 mm) compact layer of dark grey silty clay very rich in charcoal.

The removal of **116** showed it to be the basal fill of a shallow cut **128**, whose W edge just appeared within the sondage. Here it was up to 150 mm deep, but to the S it petered out, being dug into the slope of the ditch to the N and fading out as the ground dropped. It was mostly dug against **117**, compact pinkish- orange slightly silty clay, but at its E end it was dug into **131**. This proved to be a mix of dark grey clayey silt and orangeish brown clayey silt, all very rich in charcoal, and with some mortar and sandstone fragments throughout. This was the fill of a cut **132** only part of the W edge of which was seen. **132** seemed to be a shallow feature only 100 mm deep which crossed the sondage N- S and ran under wall **110** to the E. Towards the S of the sondage **132** was part filled by mortar running off **110**. The W edge of **132** cut into **142**, an oval area of mid brown silty clay with frequent mortar and charcoal flecks throughout. Although not excavated this is thought to be the fill of a cut (**143**) dug down into clay **117**, and with its upper surface truncated by **128**. Clay **117** was not excavated, but in places bedrock **127** could be seen protruding through it.



Within the SE corner of the trench deposits were not connected stratigraphically to anything else in the trench, except for topsoil **101** and the masonry of the Fore tower **110**. The removal of **101** at the SW corner of **110** had exposed two courses of masonry (without bottoming the wall), which altered its above ground curve to a right angle, with its W face essentially flush with that of the Mid tower. The removal of **101** in the extreme SE of the trench, against the masonry of the door through the Barbican, had also revealed a threshold slab **113**. This was a single rectangular block of pale grey sandstone, 850 mm N- S and 350 mm wide. This ran under the margins of the door at both ends (**111** is the N margin and **112** is the S). **113** subdivided this corner of the trench into deposits to its W and those to its E, within the doorway through the Barbican.

To the W of **113** a cut **130** was revealed against its W margin. This was a sub rectangular cut up to 180 mm deep whose fill **129** comprised a mix of pale yellow clay, coarse grey silt and two large thin sandstone slabs, one with traces of mortar on it. **130** was dug down through **138**, a 250 mm deep deposit of mid grey silt full of mortar, charcoal and small rounded stones, banked up against all masonry.

The removal of **138** from this SE corner exposed **144**, an unexcavated oval patch of loose coarse pale yellow mortar and stones, a mix of sandstone and some green tuff. This was against the edge of **139**, a setting of three large flat sandstone slabs occupying the SW corner of this area and running off site to both S and W. Although not removed it could be seen that **140**, dark grey silty clay with frequent charcoal and some mortar flecks throughout noted only in the NW corner of this part of the trench, ran under **139**. **140** was also unexcavated, but banked up against **110**, the masonry of the Fore tower to the N. Directly against **113**, and running under it the removal of **138** and emptying of cut **130** exposed an area of N- S masonry **135**. This only had its upper surface exposed, and that was damaged by **130**, but it could be seen be parallel to **113**, with its W edge 300 mm to the W of it. At the N end its W face was formed by medium sized sandstone blocks, with a mix of pale yellow shell rich mortar and small sandstone fragments to the E of these. To the S (in the base of **130**) a single sandstone block occupied the width of this wall.

To the E of threshold slab **113** a further cut **134** was dug against its edge. This was a sub rectangular cut 600 mm N- s by 550 mm E- W and up to 400 mm deep. Its fill **133** consisted of loose grey sandy silt with occasional mortar and charcoal flecks throughout. **134** was excavated through **136**, a spread of loose pale yellow sandy mortar which was not excavated, but which was up to 70 mm thick in the side of **134**. **136** filled the passageway through the barbican wall, and two features could be seen protruding through it. At the E end of the corridor at least two sandstone slabs laid flat and running N- S could be seen. In the SW corner, just to the S of cut **134** a single rectangular block of sandstone with a flat upper surface level with **113**'s upper edge was noted.

Within trench 2 the topsoil **200** proved to be up to 250 mm thick and badly disturbed by both roots and animal burrows. Its removal demonstrated that the underlying deposits were also heavily disturbed. A total of five layers were recognised and described from the N section of the trench, but during the excavations these were all removed as one, down to the top of **214**, with all finds being allocated to **202**, the thickest layer.

Below **200** was **201** a thin layer of pale orange sandy mortar, only really visible at the N end of the trench. This sealed **202**, a thick (200 mm) layer of compact dark grey sandy silt. **202** overlay **203** a thin (80 mm) layer of darker grey silt rich in charcoal, which in turn was over **208** a paler grey 200 mm thick deposit with frequent small stones and occasional charcoal and mortar flecks throughout

A section line was maintained at the S end of the trench, following the E face of the Mid tower (**213**) and the Fore tower (**205**), which effectively split the SW corner of the trench off into a separate area. This section line proved to have been left in at the E end of a cut **228**, which had a vertical N face against the Fore tower (**205**) and W face against the barbican (**206**), with a steep E edge and a flat base. **228** proved to be 500 mm deep, 3.2 m E- W and at least 1.25 m N- S (running off site to the S). It was filled by **227**, moderately compact grey fine silt very rich in small angular fragments of green tuff which produced modern finds.

The emptying of cut **228** in the SW corner exposed a stretch of N- S walling **207** running under both **205** (the Fore tower to the N) and **206** (the Barbican to the W). **207** was at least 1.1 m N- S, and was angled so that its N end extended 500 mm E of **206** and its S 600 mm. Its E face comprised medium sized grey sandstone blocks standing to at least two courses, with a smaller rubble core to the W of this, all bonded by a friable pale yellow mortar rich in shell fragments. Banked up against its E edge and the S edge of **205** was **204** a very hard pale grey mortar rich in tiny shell fragments. This extended up to 800 mm E of **207** and was 100 mm thick. Its removal exposed **209** a paler less shell rich mortar spread occupying a similar position to **204**, although not running as far N- it stopped short of masonry **205**. This was not removed, but seemed to overlie **214** a layer of orangeish brown silty clay. To the E of **209**, still within the SW sondage was a fill **220** comprising loose pale yellow coarse mortar, with frequent small chunks of angular sandstone throughout. This proved to sit in a circular cut **221** that was 160 mm diameter and 320 mm deep, with a flat base and vertical sides on all but its W edge, which was slightly (50 mm) overhanging.

Outside of this SW sondage **214** was sealed by **210**, a thin spread of coarse pale yellow mortar banked up against wall **205** to its W for a distance of 2.2 m N- S. At the E edge of this was a fill **211**, a mix of loose pale yellow mortar and sandstone fragments, similar enough to **210** that their relationship is unclear. **211** filled **212** whose upper 250 mm was oval in plan with vertical sides on all but its N edge, which, while steep, came to a flat base. Below this **212** turned into a vertical shaft 230 mm diameter and 430 mm deeper than the upper part (making it a total of 650 mm deep). Both these proved to sit within a larger cut, **232** which was roughly circular in plan (750 mm diameter) and steep side with a gently sloping base, up to 850 mm deep. Its fill **224** comprised brown silty clay, very rich in sandstone fragments, with an angular piece of sandstone laid flat at the very base of the upper "cut" **212**.

At this stage **214**, the layer of orangeish brown silty clay could be traced across the entire trench. This was only excavated in a single sondage some 4.6 m N- S along the E face of the masonry, but at the S end this trench "dog- legged" in to the W, and there was little connection below **214** between those deposits in the Southern 1.5 m and those to the N.

At the N end of this sondage **214** was a substantial layer up to 800 mm thick, but thinning

rapidly down slope to the S. The orangeish brown silty clay of **214** was rich in sandstone fragments, and contained a little charcoal, but was remarkably free of finds. **214** banked up against all the masonry (both Mid and Fore towers) to its W. Its removal exposed **222**, a thin layer consisting of fragments of sandstone and coarse yellow mortar, traceable for some 1.5 m before petering out to the S. A copper ring was recovered from **222**. This sealed **223**, an ash rich layer of grey brown silty clay rich in sandstone, which again only occupied the Northern 1.5 m of the sondage. **223** also post-dated all masonry to the W, and as well as four late medieval pottery shards it produced fragments from a glass vessel.

The removal of **223** revealed the full extent of the stonework of the Gate house. The Mid tower **213** consisted of a further three courses of sandstone blocks standing up to 750 mm high below ground. These formed a good S and E face, with some larger stones forming the S end, all bonded by a fine sandy pale grey mortar with occasional small rounded inclusions throughout. This then stood on **231**, a block of masonry parallel to **213**, but projecting 200 mm E of its E face and 160 mm S of its S face. **231** comprised five courses of roughly dressed sandstone blocks with some small "pinners" used, standing just over 1 m high. Below this a single large block 450 mm high carried a crude "chamfer" along its upper edge, to project out a further 170 mm to the E from the line of **213**. All this was also bonded by fine pale grey mortar. The masonry of the Fore tower, **205**, was bonded onto the S face of **213** and **231** with little attempt to key the walls together.

The base of this Northern sondage consisted of **225**, a thin discontinuous layer of compact orangeish brown silty clay, which ran under the masonry of **231**. This sealed **226**, a friable dark green bedrock, which formed a remarkably flat terrace, at least for the Northern 2 m of this sondage.

At the S end of this N-S sondage the removal of **214** exposed **215**, a mixed deposit of brown silt, ash and small sandstone chunks. This had a flat upper surface, with its N end banked up against **205** it thickened to the S to a maximum of 130 mm. This in turn sealed **216**, mid brown silty clay with occasional charcoal flecks, again with its N end against **205**, and increasing to the S to reach a thickness of 180 mm. Below this deposit **217** comprised loose pale yellow mortar rich in fragments of green tuff, again built up against **205** it could be seen to drop in height to the S, where it was up to 100 mm thick. **217** sealed **218** a layer of angular sandstone chunks and silty clay, whose extreme N end was against the base of **205**, sitting on bedrock **226** to the immediate S of this wall. This deposit was up to 200 mm thick, and sloped down fairly steeply to the S.

**219** was found below **218**, and only found in the extreme S end of the sondage, with no relationship to **205**. **219** comprised loose coarse mid brown silt, with both angular and rounded stones throughout, up to 300 mm thick to the S and petering out to the N. Below this **233** was a very thin (50 mm) layer of dark brown sandy silt, which dropped down steeply to the S, and at its N end ran under wall **205**.

**233** was found to overlie scraps of **225**, the compact orangeish brown silty clay also noted in the N end of the sondage. Below this bedrock **226** sloped down gently to the S, except for the extreme Southern 700 mm where it dropped more steeply, and was given a cut number, **230**. No trace of **225** was seen to the S of the start of **230**.

**205**, the wall comprising the Fore tower, was now fully revealed along its E face and partly along its S. It could be seen that its NE end, to the S of its junction with the Mid tower **213/231**, curved, carrying the wall line to the E of the Mid- tower and of the higher up sections of the Fore tower. The S face still seemed near vertical, and there were no clearly defined footings to the Fore tower. At its SW end it was built against **229**, the alteration to the door in the Barbican wall (**206**) to allow the insertion of a gun loop. **206** was represented by a single horizontal rectangular slab of sandstone, 970 mm long and 190 mm high, which just sat above **207**, the wall running under, and slightly squint to **206**.

### 3 CONCLUSIONS

A similar, but not identical sequence was produced from these two trenches. In the next section an attempt will be made to phase the features from both trenches in the same sequence. This will be followed by more general conclusions, with a final section detailing the implications for the restoration of the Gate house.

#### 3.1 Site phasing

##### PHASE 1:

Pre 1350

Trench 1: bedrock **127**; boulder clay **117**

Trench 2: bedrock **226**; boulder clay **225**

This phase represents the site prior to any intervention. The presence of apparent boulder clay in both trenches indicates that the bedrock below has not been substantially altered, except in the area of cut **230** (phase 2) at the S limit of trench 2. This indicates that the level terrace to the bedrock seen in trench 2 along the E face of the Mid tower and the N end of the Fore tower is natural in origin.

##### PHASE 2:

C. 1350

Trench 1: Mid tower footings **122**; Mid tower masonry **121**; possible cut feature **142** and **143**

Trench 2: Mid tower footings **231**; Mid tower masonry **213**; early wall **207**; ditch cut **230**

During this phase the Mid tower is constructed, with a different style of footings either side-those to the W (**122**) being more substantial. These footings were founded on bedrock yet were presumably hidden from view, indicating the removal of a large amount of spoil from the site, probably as part of the phase 4 works. The ditch cut **230** is poorly phased, but likely to originate (although possibly altered later) with the construction of the main Castle defences in this phase. Excavation at the S end of trench1 was insufficiently deep to show the ditch course on this side. As noted for phase 1 there is evidence that the bedrock was not altered outside of **230**, the Mid tower (or at least its E side) seems to be built on a natural terrace. Wall line **207**, although running under phase 3 wall **206** is thought to represent an earlier wall line rather than its footings as it is squint to the alignment of **206**. **207** may relate to a bridge across the ditch from the Mid tower, or even a precursor to the Barbican. Although not excavated fill **142** is thought to represent a phase 2 or 3 feature, as it is truncated by phase 4 cut **132**.

##### PHASE 3:

C. 1400

Trench 1: Barbican footings **135**; Barbican masonry **111**, **112**, **147** and **148**; barbican door thresholds **113** and **137**; Barbican door flooring **136** and **141**

Trench 2: Barbican masonry **206**

At this stage the Barbican is built on to the S face of the Mid tower, projecting out into the ditch- and presumably reducing the gap that has to be bridged. At ground level (the base of the ditch) the Barbican is provided with doors on both the E and W sides. That to the E is blocked up (during phase 4), and is represented by a threshold slab only (**206**). To the W

this door survives more or less intact, with moulded margins (**111** and **112**) over a threshold slab **113**. Any surface to the corridor has been robbed out (with the possible exception of single stone **141**), although mortar **136** may represent bedding for this assumed surface. Threshold **137** survives at the E end of this corridor. The W side sits on footings **135** that are thought to be contemporary, while the E side recycles masonry **207** thought to be of phase 2 as footings.

#### **PHASE 4:**

C. 1556

Trench 1: Fore tower masonry **110**; Fore tower construction trench **131** and **132**; cut into slope **128**; infill deposits **104**, **105**, **114**, **115**, **116**, **124**, **125** and **140**; Paving to barbican door **139**.

Trench 2: Fore tower masonry **205**; alteration of the barbican E wall **209** and **229**; deposit under Fore tower **233**; ditch infill **215**, **216**, **217**, **218** and **219**

In phase 4 the Fore tower is constructed against the S face of the Mid tower and over the N end of the Barbican. To the W this involved a shallow cut **132** to take its masonry **110**, and although this is truncated by cut **128**, it is thought that they are roughly contemporary episodes. **128** therefore would reflect larger scale clearance of the area around the Fore tower, rather than a discrete wall trench. No such cut was recorded on the E side, but the flat bedrock terrace on which the Fore tower (**205**) sits is likely to have been cleared as the phase 2 footings (**231**) exposed at the N end of this shelf stand more than 1 m high, yet were presumably originally hidden. This indicates substantial clearance, so large that the whole excavated area within trench 2 is effectively within a cut.

There are small but significant differences in the masonry of the Fore tower on either side. To the W **110** continues the N-S line of the W face of **121**, the W wall of the Mid tower, while to the E the E face of **205** curves to bulge out further E than the line of **213**, the E face of the Mid tower. On both sides the S face seems close to flush from top to bottom. The corner connecting the two faces is handled differently on each side- a smooth curve on the E side, while to the W the lower courses form a right angle. The W side (or at least its W face) steps out by some 150 mm, level with the top of the phase 2 footings **122** and some 1.15 m above the base of **110**. If the door in the Barbican W wall was still in use (and paving **139** assigned to this phase suggests that it was), and this step out was not meant to be seen then the ground level must have dropped steeply, as they are only 2.5 m apart, yet the door threshold is 1.3 m below the "lip" in **110**. On both sides the N end of the Fore tower was simply added to the S face of the Mid tower, with very little attempt to tie the two together. The W side is likewise simply built against the masonry of the Barbican. On the E side the original phase 3 door in the Barbican (**206**) is converted into a gun loop (by **229**). This alteration can be shown to pre date the construction of the Fore tower, yet the style of gun loop is so similar to those used in the fore tower that they are likely to belong to the same campaign of building.

The final episode in this phase involves the dumping of substantial amounts of material against the newly built Fore tower. Up the slope to the N this involves a few thick horizons (on the E side up to 1.25 m of material), which effectively create the angle of the slope on the N side of the ditch. To the S little material was removed in trench 1, yet even here it can be seen that different deposits (**124** and **125**) were dumped lower down the slope from those (**204** and **205**) used up slope. At the base of the E-W sondage across trench 1 these can be

seen to sit in a cut **128**, which indicates levelling of the site before this episode of deposition. In trench 2 at the S end of the main N- S sondage evidence was found for the at least partial infilling of the ditch (cut **230**). This involved numerous deposits rapidly fired into the open ditch, and covering at least the basal 500 mm of the Fore tower. These deposits were all fairly thin within the sondage, but deepened to the S, and if the whole ditch was exposed these could prove to be substantial tips. Within trench 1 apparent paving **239** was then laid over these deposits, leading to the door in the W side of the Barbican.

#### **PHASE 5:**

17<sup>th</sup> century?

Trench 1: N post- hole **108, 109, 145** and **146**; SE post- hole **144**; drainage channel **119** and **120**

Trench 2: N post- hole **211, 212, 224** and **232**; SW post- hole **220** and **221**; mortar spreads **210** and **204**

A series of four post- holes are dug down through the phase 4 dumps at this stage. Two were fully excavated, one part excavated and one was not excavated at all. Two were recorded in each trench, and their positions were similar on both sides of the Gate house. Those towards the N ends of the trenches (cuts **146** and **232**) in particular matched each other closely, being located at the N end of the masonry of the Fore tower, while those to the S (**144** and **120**) were in similar positions in relation to the S face of the Fore tower. All appeared as roughly circular patches of loose mortar, and on excavation these proved to fill circular steep sided holes, thought to represent "post- pipes" from which a timber has been extracted, and the void that this left filled with mortar. The two Northern examples were proved to sit within larger cuts, which had been backfilled by the material that they were dug through. Cut **232** proved to be some 850 mm deep, and had carried a post some 230 mm diameter. Mortar spreads **204** and **210** within trench 2 may indicate that these posts relate to the repair or re- pointing of the Fore tower. They are poorly dated, but are dug through the material dumped against the Fore tower in the previous phase, so are unlikely to relate to its construction, and are sealed by phase 6 deposits. A possible drainage channel, **120**, in- filled with much rubble against the W face of the Mid tower in trench 1 is assigned to this phase.

#### **PHASE 6:**

C. 1920

Trench 1: Buried turf line **103**; squared cut **106** and **107**; scoop over squared cut **118** and **123**; cut in doorway through Barbican **133** and **134**; soil deposit in SE corner **138**

Trench 2: buried soil and turf line **208** and **203**

In this phase a series of cuts are made within trench 1. They are of unknown function, but **134** in the passage through the W wall of the Barbican was most likely to be a robber cut, although it is surprisingly deep. Cut **107** in the N section is a vertical sided square cut, possibly a post- hole, although with no evidence for a post- pipe. This has been disturbed by shallow scoop **123** dug into it. Top soils had formed over the phase 5 features, and these produced numerous early twentieth century finds. In trench 2 **208** was sealed below the apparent buried turf line **203**, and this again produced early twentieth century finds. **208** could represent spoil from the 1920's excavations at the site.

## **PHASE 7:**

Modern

Trench 1: Topsoil **101**; re- pointing debris **102**; cut in SE corner **129** and **130**

Trench 2: Topsoil **200**; re- pointing debris **201**; cut in SW corner **227** and **228**; soil under re- pointing **202**

Two cuts to the S of the Fore tower (**130** and **228**) produced modern finds, and may relate to the insertion of scaffolding around the structure. Both trenches produced spreads of mortar which are likely to relate to either the repair, or simply the erosion of this monument. Top soils had then formed over these mortar spreads.

### **3.2 General conclusions**

These two trenches have revealed a large amount of evidence for the sequence at this site. While the long recognised three stage construction and enlargement of the Gate house has not been challenged, much detail has been added. The Mid tower can be seen to sit on substantial footings, of different design on either side. These are likely to have been concealed from view, implying the deposition of soil against them, and then its large scale removal. This would have been necessary during the sixteenth century construction of the Fore tower, but may have already at least partly happened during the construction of the Barbican, around 1400. It is unknown how much of the N profile of the ditch is a sixteenth century construction outside the trench, as this may be a localised alteration in the area of re- building.

The ditch line would appear to at least partly follow a natural feature, as bedrock that has evidently not been quarried was found in both trenches at a lower level than the S edge of the ditch. The N profile of this ditch has evidently been created by the deposition of large amounts of spoil. As the ditch rises to the N outside the trench the volumes required to create this slope necessarily increase. As this N edge is generally lower than the S, this seems unlikely to represent an extra artillery defence, designed to absorb the impact of shot, as it would be below the line of fire. Perhaps the best explanation is the desire to keep attackers away from the base of the curtain wall.

The Barbican is, as the most ruinous structure, the most enigmatic. To the E its walls overlies some earlier masonry, possibly part of a bridge structure to go with the Mid tower. The two doors at the base of the ditch represent weak spots in a defensive scheme, but were presumably designed as sally ports.

The construction of the Fore tower represents a change in the philosophy of defence. Its real purpose seems to be simply thickening the masonry of the gate house to better absorb the impact of artillery. A similar motivation seems to lie behind the in- filling of some of the intra- mural chambers in the curtain wall. The use of green tuff as a primary building stone for this phase also stands out. The effect would be to create a green tower, with horizontal red stripes, in front of the red castle. While it has long been suggested that the tuff is better at absorbing impacts than the sandstone, the aesthetics of this decision cannot be ignored as a factor. The material noted above was then deposited around the Fore tower, covering its



base. This included the at least partial infill of the ditch, possibly to stabilise the S face of the Fore tower, which it runs perilously close to.

The series of substantial post-holes recorded around the Fore tower cannot be closely dated. They may relate to the repair of the structure when it saw active use in the sixteenth century, but this must remain speculative. Buried turf lines in both trenches, rich in finds, may indicate the early twentieth century renewal of interest in the site.

### **3.3 Implications for restoration**

The programme of building recording and excavation carried out at the gate house of Tantallon Castle was designed to inform the restoration of the monument, and in particular the Fore tower. It can be seen from this work that its profile is not identical on either side. To the W it is close to vertical, with a straight W and S side connected (above ground) by a curving SW corner. The W face continues the line of the W face of the Mid tower. The sudden adoption of a right angle at the SW corner below ground level is likely to be an attempt to stabilise its base.

On the E side the story is more complex. The E face of the Fore tower curves, meaning that it bulges out to the E of the line of the Mid tower, and ends up as much as half a meter E of the upper build of the Fore tower. Unfortunately a sizable (c. 1.5 m high) section of the outer masonry of the base of the tower is missing, quite probably robbed out. This means that it is unclear how this lower “bulge” connected to the masonry higher up. As it curves around to the S face this bulge disappears, and the upper and lower parts of the tower are close to vertical. This side of the structure is so close to the ditch edge that any splay would carry the building out over its edge, presumably explaining its more vertical nature on this side.

At the top of the area of stone robbing on the E face of the Fore tower a band of red sandstone at least 1 m high was recorded, far thicker than the sandstone bands higher up. This appears to be a facing to the green tuff behind, and is presumably a decorative device. Little evidence was recorded for this feature on the W side, but the stonework is in such poor condition that the odd fragments of sandstone noted may be all that remains of this continuous band. It seems likely that the profile of the ditch against this masonry is close to that created in the sixteenth century.

**A1. APPENDIX 1 : LIST OF CONTEXTS FOR TRENCH 1**

<b>Context no.</b>	<b>Description</b>
101	Topsoil
102	Thin mortar layer below <b>101</b> at the W end of the trench
103	Dark grey charcoal rich silty clay below <b>102</b>
104	Pale orangeish brown silty clay below <b>103</b>
105	Mixed dark brown layer below <b>104</b>
106	Fill of cut <b>107</b>
107	Vertical sided rectangular shaped cut in the N section of the trench
108	Loose mortar fill of <b>109</b>
109	Cut for post- hole (?) to the W of the N end of the Fore tower, fill <b>108</b>
110	Masonry of Fore tower
111	N margin of door in the W wall of the Barbican
112	S margin of door in the W wall of the Barbican
113	Threshold of door in the W wall of the Barbican
114	Loose stone, ash and pale grey silt below <b>105</b> in E- W sondage
115	Orangeish clay below <b>114</b>
116	Thin ash lens below <b>115</b>
117	Compact clean orangeish clay below <b>116</b>
118	Loose mid brown silt, fill of <b>123</b>
119	Stone and mid grey silt fill of cut <b>120</b>
120	Gently sloping cut against <b>121</b> in NE corner of the trench
121	Lower vertical masonry of Mid tower
122	Footings below <b>121</b>
123	Shallow cut into top of <b>106</b> , filled by <b>118</b>
124	Charcoal rich dark grey silt at the S end of the trench, below <b>105</b>
125	Charcoal rich orangeish brown silty clay below <b>124</b>
126	NOT USED, SAME AS <b>145</b>
127	Bedrock
128	Cut with <b>116</b> as its basal fill
129	Mid grey silty clay and coarse grit fill of <b>130</b>
130	Cut in the SE corner of the trench
131	Mixed fill of cut <b>132</b>
132	Cut for wall <b>110</b>
133	Mid grey coarse silt fill of cut <b>134</b>
134	Sub- square cut just to the E of <b>113</b>
135	Masonry just to the W of <b>113</b>
136	Mortar spread between <b>113</b> and <b>137</b>
137	Threshold at E end of door in Barbican wall
138	Mid grey coarse silt cut by <b>130</b>
139	Flat slabs banked up against <b>135</b>

<b>Context no.</b>	<b>Description</b>
140	Charcoal rich dark grey silt below <b>139</b>
141	Single E- W rectangular stone to the E of <b>113</b>
142	Brown silty clay fill of cut <b>143</b>
143	Cut just to the W of cut <b>132</b>
144	Loose mortar to the NE of <b>139</b>
145	Fill of cut <b>146</b>
146	Cut for post- hole, which <b>109</b> is the post pipe for
147	N wall of door through the Barbican- same build as <b>111</b>
148	S wall of door through the Barbican- same build as <b>112</b>

**A2. APPENDIX 2 : LIST OF CONTEXTS FOR TRENCH 2**

<b>Context no.</b>	<b>Description</b>
200	Topsoil
201	Thin sandy mortar lens below <b>200</b> at the N end of the trench
202	Mid brown sandy silt below <b>201</b>
203	Dark grey silt lens below <b>202</b>
204	Coarse mortar in the SW corner of the trench, against <b>205</b>
205	Masonry of Fore tower
206	Masonry of Barbican
207	Wall/ footings below <b>206</b>
208	Mid brown sandy silt below <b>203</b>
209	Mortar layer below <b>204</b>
210	Thin mortar spread along E side of <b>205</b>
211	Mortar and stone fill of cut <b>212</b>
212	Cut (post- hole?) to the E of the N end of <b>205</b>
213	Masonry of Mid tower, above footings <b>231</b>
214	Orangeish brown clay below <b>210</b>
215	Coal rich silt layer below <b>214</b>
216	Mid brown silt, clay and stone layer below <b>215</b>
217	Layer of coarse pale yellow mortar below <b>216</b>
218	Layer of stone, silt and clay below <b>217</b>
219	Loose gritty brown silt below <b>219</b>
220	Loose mortar and stone fill of cut <b>221</b>
221	Cut in the SW corner of the trench
222	Compact stony layer below <b>214</b>
223	Loose charcoal rich dark silt below <b>222</b>
224	Stone and clay fill of cut <b>232</b>
225	Pinkish clay below <b>223</b> and <b>219</b>
226	Bedrock below <b>225</b>
227	Coarse gritty fill of cut <b>228</b>
228	Large cut in the SW corner of the trench
229	Alteration of masonry <b>206</b> to allow the insertion of a gun loop
230	Possible ditch cut in bedrock <b>226</b>
231	Footings to Mid tower <b>213</b>
232	Cut for fill <b>224</b>
233	Thin band of dark grey silt running under the SE corner of <b>205</b>

### A3. APPENDIX 3 : LIST OF EXCAVATION DRAWINGS

No.	Type	Description	Scale
1	Plan	Plan of the SW end of trench 2, mortar 204 and wall 205	1: 20
2	Plan	Plan of trench 1: 108; 109; 110; 111 and 112	1: 20
3	Plan	Plan of trench 2: 205; 209 and 214	1: 20
4	Profile	Trench 2, E facing profile through cut 232	1: 10
5	Profile	Trench 2, profile through cut 228	1: 10
6	Section	E facing section at the S end of trench 2	1: 10
7	Plan	Post- ex plan of trench 2	1: 20
8	Elevation	W facing elevation of door in the W wall of the Barbican	1: 20
9	Section	Upper S facing section in trench 2	1: 10
10	Section	Lower S facing section of N- S sondage in trench 2	1: 10
11	Section	W facing section of N- S sondage in trench 2	1: 10
12	Elevation	Profile through W end of trench 2	1: 10
13	Section	S facing section of E- W sondage in trench 1	1: 10
14	Elevation	Trench 1, S facing elevation through Barbican door and lower portion of Fore tower	1: 20
15	Section	S facing section of trench 1	1: 10
16	Plan	Post- ex plan of trench 1	1: 20
17	Section	E facing section of trench 1	1: 20
18	Elevation	Elevation of gun loop and door sill in Barbican, trench 2	1: 20

**A4. APPENDIX 4 : LIST OF PHOTOGRAPHS**

<b>No.</b>	<b>Description</b>	<b>From</b>	<b>Date taken</b>
1	General shot of Castle	N	14/12/2009
2	General shot of Gatehouse	NW	14/12/2009
3	General shot of Gatehouse	NW	14/12/2009
4	General shot of Castle	N	14/12/2009
5	General shot of Gatehouse	N	14/12/2009
6	General shot of Castle	NW	14/12/2009
7	General shot of Gatehouse	N	14/12/2009
8	General shot of Middle of S face of Fore tower	N	14/12/2009
9	General shot of castle	N	14/12/2009
10	Detail of armorial panel 064	N	14/12/2009
11	Top of the Mid tower encased in the Fore tower	SE	14/12/2009
12	Detail of top of E Mid tower	SE	14/12/2009
13	Detail of top of W Mid tower and bridge	SE	14/12/2009
14	General shot	NW	14/12/2009
15	General shot of the E curtain wall head	E	14/12/2009
16	Interior of Mid tower, N face	N	14/12/2009
17	General shot	W	14/12/2009
18	General shot of hall block	NW	14/12/2009
19	Interior of Mid tower, S face	S	14/12/2009
20	General shot	N	14/12/2009
21	N side of Mid tower and E curtain wall	SE	14/12/2009
22	N side of Mid tower	SE	14/12/2009
23	N entrance to Mid tower	S	14/12/2009
24	General shot	N	14/12/2009
25	General shot of gatehouse	NE	14/12/2009
26	General shot of gatehouse, W curtain wall and ditch	E	14/12/2009
27	General shot of upper mid section of W face of Gatehouse	E	14/12/2009
28	General shot of lower part of Gatehouse	NE	14/12/2009
29	General shot of S end of Barbican	NE	14/12/2009
30	General shot of gatehouse, ditch and W curtain wall	E	14/12/2009
31	General shot of gatehouse, ditch and W curtain wall	E	14/12/2009
32	General shot of base of W side of gatehouse	E	14/12/2009
33	General shot of base of W side of gate house	E	14/12/2009
34	General shot of middle of W side of gate house	E	14/12/2009
35	General shot of top of W side of gate house	E	14/12/2009
36	Detail of junction of base of W side of Mid tower and Fore tower	E	14/12/2009
37	Detail of junction of middle of W side of Mid tower and Fore tower	E	14/12/2009

No.	Description	From	Date taken
38	Detail of junction of top of W side of Mid tower and Fore tower	E	14/12/2009
39	View along wash course 038 and 027	N	14/12/2009
40	Junction between 039 and 043	E	14/12/2009
41	General shot of E side of S face of Fore tower	N	14/12/2009
42	General shot of E side of gatehouse and E curtain wall	NW	14/12/2009
43	General shot of E side of gatehouse and E curtain wall	NW	14/12/2009
44	General shot of E side of gatehouse and E curtain wall	NW	14/12/2009
45	General shot of base of E side of gatehouse	W	14/12/2009
46	General shot of top of E side of gatehouse	W	14/12/2009
47	General shot of E tower, E curtain wall and E side of gatehouse	NW	14/12/2009
48	General shot of E side of gatehouse, E curtain wall and ditch	NW	14/12/2009
49	General shot of E side of gatehouse, E curtain wall and ditch	W	14/12/2009
50	Detail of junction in the middle between the E side of the Mid tower and Fore tower	W	14/12/2009
51	Detail of junction of 004 and 005 with Fore tower	SW	14/12/2009
52	Detail of 009	W	14/12/2009
53	Detail of junction at the base between the E side of the Mid tower and Fore tower	W	14/12/2009
54	Detail of junction between gun loop 014 and Mid tower	SW	14/12/2009
55	Detail of gun loop 014	SW	14/12/2009
56	011 (Fore work) and 023 with aperture 024 within it (Barbican)	SW	14/12/2009
57	Gun loop 024	W	14/12/2009
58	Gun loop 024	W	14/12/2009
59	Detail of S end of Barbican (025 and 045)	NE	14/12/2009
60	Detail of door 044 in wall 043	E	14/12/2009
61	Detail of S margin of door 044	E	14/12/2009
62	Detail of top of S margin of door 044	E	14/12/2009
63	Gun loop 024 from the inside	E	14/12/2009
64	Modern bridge support	SE	14/12/2009
65	General shots of castle	NW	15/12/2009
66	General shots of castle	NW	15/12/2009
67	General shots of castle	NW	15/12/2009
68	General shot of gatehouse	NW	15/12/2009
69	General shot of castle	N	15/12/2009
70	General shot of castle	NE	15/12/2009

No.	Description	From	Date taken
71	Bass rock	N	15/12/2009
72	General shot of castle	NE	15/12/2009
73	General shot of castle	NE	15/12/2009
74	General shot of gatehouse	NE	15/12/2009
75	General shot of gatehouse, W curtain wall and ditch	E	15/12/2009
76	Blocked up window in N wall of Mid tower from inside	S	15/12/2009
77	Blocked up window in N wall of Mid tower from inside	S	15/12/2009
78	Blocked up window in N wall of Mid tower from inside	S	15/12/2009
79	General shot of top of W side of gatehouse	E	16/12/2009
80	Detail of 030 and 032	E	16/12/2009
81	Detail of junction between 031 with 033 and 034 and 035	E	16/12/2009
82	Detail of junction between 021/ 022 with 034/ 035	E	16/12/2009
83	Detail of W side of centre of S face of Fore tower	N	17/12/2009
84	Detail of W side of centre of S face of Fore tower	NE	17/12/2009
85	Detail of top of wall 043 showing blocking 050	N	17/12/2009
86	Detail of scar of arch 074 across 058	N	17/12/2009
87	Detail of 059 and 060	N	17/12/2009
88	General shot of E curtain wall	E	18/12/2009
89	Detail of interface between 011 and 065/ 066	W	18/12/2009
90	Detail of base of E side of Mid tower	W	18/12/2009
91	Detail of gun loop 014	W	18/12/2009
92	Detail of interface between 047 and 026/ 067/ 068	E	18/12/2009
93	Detail of interface between 047 and 026/ 067/ 068	NE	18/12/2009
94	Detail of interface between 047 and 026/ 067/ 068	N	18/12/2009
95	Detail of fun loop 048	E	18/12/2009
96	Gun loop 048 with wall 026 behind	NE	18/12/2009
97	Detail of top of W end of 058	N	18/12/2009
98	General shot along the W end of the ditch	W	18/12/2009
99	General shot along the E end of the ditch	E	18/12/2009
100	General shot of middle of S wall of Fore work	N	18/12/2009
101	Detail of base of blocked door 062	N	18/12/2009
102	Detail of top of blocked door 062	N	18/12/2009
103	Detail of E end of middle of S wall of Fore tower	NE	18/12/2009
104	Detail of blocked door 062	N	18/12/2009
105	Detail of wash courses 004 and 016	NW	18/12/2009
106	Detail of wash courses 004 and 016	NW	18/12/2009
107	Detail of wash courses 004 and 016	N	18/12/2009
108	Detail of wash course 016 and build 017 above	NW	18/12/2009
109	Detail of wash course 016 and build 017 above	NW	18/12/2009



No.	Description	From	Date taken
110	Detail of wash course 016's W end	W	18/12/2009
111	Detail of sandstone build 012	NW	18/12/2009
112	Detail of sandstone build 012's E end	W	18/12/2009
113	Detail of sandstone build 012's W end	NW	18/12/2009
114	Detail of interface between 012 and 023	NW	18/12/2009
115	Top of altered gun loop 024	W	18/12/2009
116	Top of altered gun loop 024	W	18/12/2009
117	Build 011 and gun loop 024	NW	18/12/2009
118	Build 011	NW	18/12/2009
119	Build 011	NE	18/12/2009
120	Detail of gun loop 024	W	18/12/2009
121	Detail of top of gun loop 024	W	18/12/2009
122	Detail of inside of gun loop 014	W	18/12/2009
123	Detail of inside of gun loop 014	W	18/12/2009
124	General view of castle	N	21/12/2009
125	General view of castle	N	21/12/2009
126	General view of castle	N	21/12/2009
127	Junction of SW corner of SE part of Mid tower with Fore tower	NE	21/12/2009
128	Junction of SW corner of SE part of Mid tower with Fore tower	N	21/12/2009
129	Junction of SW corner of SE part of Mid tower with Fore tower	N	21/12/2009
130	Internal stair within thickness of 023	S	21/12/2009
131	View through gun loop 014 from inside	E	21/12/2009
132	View of blocking of door 062 from inside	S	21/12/2009
133	W face of E side of internal stair	E	21/12/2009
134	View looking down at E margin of 062 and wall 023 below	S	21/12/2009
135	Top of E face of 043 and top of 061	W	21/12/2009
136	General shot- N Berwick Law and doo cot	SW	21/12/2009
137	View of junction of SW corner of SE Mid tower and Fore tower	N	21/12/2009
138	View of SE corner of SW part of Mid tower	NW	21/12/2009
139	View of SE corner of SW part of Mid tower	NW	21/12/2009
140	Current entrance to the castle- W wall dates to 1350, E to 1529	N	21/12/2009
141	View through gun loop 048 from the inside	W	21/12/2009
142	View through gun loop 048 from the inside	W	21/12/2009
143	General shot of E tower and E curtain wall	NE	21/12/2009
144	General shot of E curtain wall and E sides of Mid and Fore towers	NW	21/12/2009
145	Detail of aperture 009	NW	21/12/2009
146	Detail of junction between SE Mid tower and	NW	21/12/2009

No.	Description	From	Date taken
	Fore tower		
147	View along ditch	E	21/12/2009
148	View of E end of E curtain wall and E tower	NE	21/12/2009
149	View of E end of E curtain wall and E tower	N	21/12/2009
150	General view of E end of front of castle	NW	21/12/2009
151	E tower and Bass rock	N	21/12/2009
152	E tower and Bass rock	NW	21/12/2009
153	General view of E end of front of castle	NW	21/12/2009
154	View along outer defences	SE	21/12/2009
155	View of outer defences	NE	21/12/2009
156	View of castle behind outer defences	N	21/12/2009
157	Base of w side of Fore tower	E	21/12/2009
158	Detail of photo 157, showing fragments of red sandstone 046	E	21/12/2009
159	Detail of photo 157, showing fragments of red sandstone 046	SE	21/12/2009
160	Detail of photo 157, showing fragments of red sandstone 046	SE	21/12/2009
161	Top of door 044	E	21/12/2009
162	Top of door 052 and repair 056	N	21/12/2009
163	Top of door 052 and vaulting 055	N	21/12/2009
164	Wall 051 to E of 052	N	21/12/2009
165	Detail of E end of 051 and vault 054	N	21/12/2009
166	Detail of E end of 051 and vault 054	N	21/12/2009
167	Detail of top of blocked door 024 and vault 054	E	21/12/2009
168	Detail of relationship between vault 054 and wall 051	E	21/12/2009
169	Detail of relationship between vault 054 and wall 051	NE	21/12/2009
170	Top of door 044 with vault 053 above	W	21/12/2009
171	Detail of top of door 044	W	21/12/2009
172	Vault 053	W	21/12/2009
173	Vault 053	NW	21/12/2009
174	General shot of outer defences	NE	21/12/2009
175	Castle over outer defences	N	21/12/2009
176	Outer defences	NE	21/12/2009
177	Outer defences and ditch	NE	21/12/2009
178	Tower at SE end of outer defences	NE	21/12/2009
179	W tower and W curtain wall	NW	21/12/2009
180	Collapsed W tower	NW	21/12/200921/ 12/2009
181	Wash course 038 with masonry 039 above and 037 below	NE	21/12/2009
182	Detail of wash course 038	NE	21/12/2009

No.	Description	From	Date taken
183	Wash course 038 and wall 043	NE	21/12/2009
184	Relationship between 037 and 043	NE	21/12/2009
185	Relationship between 038 and 043	NE	21/12/2009
186	051, E end base	NE	21/12/2009
187	051, W end base with door 052	NW	22/12/2009
188	Door 052 base	N	22/12/2009
189	Door 052 middle	N	22/12/2009
190	N end of base of W face of 023	E	22/12/2009
191	S end of base of W face of 023	E	22/12/2009
192	Door/ gun loop 024 from inside, base	E	22/12/2009
193	Door/ gun loop 024 from inside, top	E	22/12/2009
194	N face of wall 049, E end	S	22/12/2009
195	N face of wall 049, W end	S	22/12/2009
196	S end of base of E face of wall 043	W	22/12/2009
197	S end of base of E face of wall 043, door 044	W	22/12/2009
198	Door 044	W	22/12/2009
199	S face of wall 049	N	22/12/2009
200	SE face of curving masonry 025	NW	22/12/2009
201	S face of curving masonry 025	N	22/12/2009
202	W face of 025	E	22/12/2009
203	E face of 045	W	22/12/2009
204	General view of castle front	NW	22/12/2009
205	General view of castle front	NW	22/12/2009
206	Masonry 055 and 058	N	22/12/2009
207	Relationship between 023 and 058	NE	22/12/2009
208	W face of 023	E	22/12/2009
209	S face of 023	N	22/12/2009
210	Wall 023 and blocked door 062	N	22/12/2009
211	Detail of top of wall 023 and rebuild 069	N	22/12/2009
212	Detail of top of wall 023 and rebuild 069	N	22/12/2009
213	Blocked recess 050, masonry 061 and scar 072	N	22/12/2009
214	Top of wall 043 showing blocked recess 050	N	22/12/2009
215	Detail of scar 072 across 058	N	22/12/2009
216	E face of blocking 050 and top of 061	W	22/12/2009
217	E face of blocking 050 and top of 061	W	22/12/2009
218	Bass rock in the snow!	NW	22/12/2009
219	Bass rock in the snow!	NW	22/12/2009
220	Bass rock in the snow!	NW	22/12/2009
221	View of the inside of the E tower and the E curtain wall	SE	22/12/2009
222	View of the inside of the Mid tower	S	22/12/2009
223	Sea gate under snow	NE	22/12/2009
224	General view of Fore tower front	N	22/12/2009
225	Detail of area between top of walls 023 and 043	N	22/12/2009

No.	Description	From	Date taken
226	Detail of top of wall 023	N	22/12/2009
227	Detail of top of wall 043	N	22/12/2009
228	Detail of heraldic shield 064	N	22/12/2009
229	Detail of blocking 050	N	22/12/2009
230	Bass rock over the W tower	NW	22/12/2009
231	Bass rock over the W tower	NW	22/12/2009
232	Junction between base of SE corner of SW part of Mid tower and E face of 043	NW	22/12/2009
233	Junction between base of SE corner of SW part of Mid tower and E face of 043	NW	22/12/2009
234	Junction between base of SE corner of SW part of Mid tower and E face of 043	NW	22/12/2009
235	Junction between base of SE corner of SW part of Mid tower and E face of 043	NW	22/12/2009
236	General view of castle	NE	22/12/2009
237	General view of castle	NE	22/12/2009
238	General view of castle	NE	22/12/2009
239	General view of castle	NE	22/12/2009
240	General view of castle	NE	22/12/2009
241	General view of castle	E	22/12/2009
242	General view of castle	E	22/12/2009
243	General view of castle	E	22/12/2009
244	General view of castle	E	22/12/2009
245	General view of castle	E	22/12/2009
246	General view of castle	E	22/12/2009
247	Castle above 'harbour'	NE	22/12/2009
248	Base of W tower	NE	22/12/2009
249	Base of W tower	E	22/12/2009
250	Base of W tower	E	22/12/2009
251	General view of castle	N	22/12/2009
252	General view of outworks	NE	22/12/2009
253	General view of W tower and Bass rock	NW	22/12/2009
254	General view of Fore and Mid towers	N	22/12/2009
255	Work starting, trench 1	N	08/02/2010
256	Work starting, trench 1	N	08/02/2010
257	Pre excavation shot of trench 2	N	08/02/2010
258	Trench 2, wall 207 and mortar 204	W	09/02/2010
259	Trench 2, wall 207 and mortar 204	N	09/02/2010
260	Trench 2, wall 207 and mortar 204	E	09/02/2010
261	Trench 2, wall 207 and mortar 204	N	09/02/2010
262	Trench 1, 103 in the S end of the trench	N	09/02/2010
263	Trench 1, general shot	N	09/02/2010
264	Trench 2, general shot	NE	09/02/2010
265	Trench 2, general shot	NE	09/02/2010

No.	Description	From	Date taken
266	Trench 2, sondage along the E side of the trench	S	09/02/2010
267	Trench 2, sondage along the E side of the trench, detail of S end	W	09/02/2010
268	Trench 2, sondage along the E side of the trench, detail of N end	W	09/02/2010
269	Trench 1, 104 at the S end of the trench	N	10/02/2010
270	SW corner of trench 2, 209 exposed	W	10/02/2010
271	Trench 2, 209 and wall 207	W	10/02/2010
272	SW corner of trench 2, wall 205	N	10/02/2010
273	SW corner of trench 2, wall 205 and 207	NW	10/02/2010
274	Trench 2, rabbit burrow along E face of 205	N	10/02/2010
275	Trench 1, S face of temporary N- S section	W	10/02/2010
276	Trench 1, detail of E end of shot 21	W	10/02/2010
277	Trench 1, general shot	SE	10/02/2010
278	Trench 1, general shot	SE	10/02/2010
279	Trench 2, general shot	S	10/02/2010
280	Trench 2, general shot	S	10/02/2010
281	Trench 1, 104 in the W end of the trench	N	10/02/2010
282	Trench 1, 104 in the W end of the trench	N	10/02/2010
283	SE corner of trench 2 after the removal of 208	NW	10/02/2010
284	E side of trench 2 after the removal of 208	N	10/02/2010
285	Trench 2, fill 211 pre excavation	N	10/02/2010
286	Trench 2, half section of cut 212	N	10/02/2010
287	Trench 2, half section of cut 212	N	10/02/2010
288	Trench 1, pad stone at base of cut 109 in situ	N	11/02/2010
289	Trench 2, clay 214 exposed in SE corner	NW	11/02/2010
290	Trench 2, clay 214 exposed in SE corner	NW	11/02/2010
291	Trench 2, cut 212 emptied	N	11/02/2010
292	Trench 2, cut 212 emptied	W	11/02/2010
293	Trench 2, cut 212 emptied	W	11/02/2010
294	Trench 2, N facing section between 205 and the S edge of the trench	W	11/02/2010
295	Trench 2, N facing section between 205 and the S edge of the trench	W	11/02/2010
296	Trench 2, bronze ring in- situ in layer 222	W	12/02/2010
297	Trench 2, bronze ring in- situ in layer 222	W	12/02/2010
298	Trench 2, N facing section between 205 and the S edge of the trench finished	W	12/02/2010
299	Trench 2, N facing section between 205 and the S edge of the trench finished	W	12/02/2010
300	Trench 2, N facing section between 205 and the S edge of the trench finished	NW	12/02/2010
301	Trench 2, N facing section between 205 and the S edge of the trench finished	NW	12/02/2010

No.	Description	From	Date taken
302	S facing section of E- W sondage across trench 1	N	13/02/2010
303	Detail of the W end of shot 1	N	13/02/2010
304	Detail of the E end of shot 1	N	13/02/2010
305	Detail of the E end of shot 1	N	13/02/2010
306	E- W sondage across trench 1	E	13/02/2010
307	E- W sondage across trench 1, detail of E end (cut 128)	E	13/02/2010
308	E- W sondage across trench 1, detail of E end (cut 128)	E	13/02/2010
309	Detail of cut 128 in S section of E- W sondage across trench 1	N	13/02/2010
310	Trench 1, detail of cut 128	E	13/02/2010
311	Trench 1, cut 109 fully emptied (with 126 removed)	N	13/02/2010
312	Trench 1, cut 128 and wall 110	NE	13/02/2010
313	Trench 1, cut 130 emptied	E	15/02/2010
314	Trench 1, cut 130 emptied	E	15/02/2010
315	Trench 2, cut 221 empty, general shot	W	15/02/2010
316	Trench 2, cut 221 empty	N	15/02/2010
317	Trench 2, cut 221 empty	W	15/02/2010
318	Trench 1, cut 134 half sectioned	N	15/02/2010
319	Trench 1, cut 134 half sectioned	W	15/02/2010
320	Trench 1, cut 134 half sectioned	W	15/02/2010
321	Trench 1, cut 134 empty and mortar 136	E	15/02/2010
322	Trench 1, cut 134 empty and mortar 136	E	15/02/2010
323	Trench 1, mortar 136 and slabs 137	E	15/02/2010
324	Trench 1, mortar 136 and slabs 137	E	15/02/2010
325	Trench 1, cut 134 empty and mortar 136	W	15/02/2010
326	Trench 1, cut 134 empty	W	15/02/2010
327	Trench 2, rubble spread 222 exposed	N	16/02/2010
328	Trench 2, rubble spread 222 exposed	NW	16/02/2010
329	Trench 1, footings 122	N	16/02/2010
330	Trench 1, footings 122 and walls 121 and N end of 110	E	16/02/2010
331	Trench 1, footings 122	S	16/02/2010
332	Trench 1, footings 122	E	16/02/2010
333	Trench 1, S face of footings 122	N	16/02/2010
334	Trench 1, footings 122 and walls 121 and N end of 110	NE	16/02/2010
335	Trench 1, masonry 135 and 139	W	16/02/2010
336	Trench 1, masonry 135 and 139	E	16/02/2010
337	Section at N end of trench 1	N	16/02/2010
338	Trench 1, detail of W end of photo 36	N	16/02/2010
339	Trench 1, detail of top of E end of photo 36	N	16/02/2010

No.	Description	From	Date taken
340	Trench 1, detail of base of E end of photo 36	N	16/02/2010
341	Trench 2, bedrock 226 exposed to the E of 205 in sondage	N	16/02/2010
342	Trench 2, bedrock 226 exposed to the E of 205 in sondage	N	16/02/2010
343	Trench 2, bedrock 226 exposed to the E of 205 in sondage	W	16/02/2010
344	Trench 2, junction between 205 and 231	W	16/02/2010
345	Trench 2, junction between 205 and 231	W	16/02/2010
346	Trench 2, junction between 205 and 231	W	16/02/2010
347	Trench 2, bedrock 226 exposed to the E of 205 in sondage	S	16/02/2010
348	Trench 2, bedrock 226 exposed to the E of 205 in sondage	S	16/02/2010
349	S facing section of extended E- W section across trench 1	N	16/02/2010
350	S facing section of extended E- W section across trench 1	N	16/02/2010
351	Trench 1, detail of W end of photo 48	N	16/02/2010
352	Trench 1, detail of E end of photo 48	N	16/02/2010
353	Trench 1, detail of E end of photo 48	N	16/02/2010
354	Trench 1, detail of cut 132 in photo 48	N	16/02/2010
355	Trench 1, clay 117 and cut 132 in extended E- W section	E	16/02/2010
356	Trench 1, cut 132 in extended E- W section	E	16/02/2010
357	General shot through gun loop	W	16/02/2010
358	Trench 1, W section from N to S	W	17/02/2010
359	Trench 1, W section from N to S	W	17/02/2010
360	Trench 1, W section from N to S	W	17/02/2010
361	Trench 1, W section from N to S	W	17/02/2010
362	Trench 1, W section from N to S	W	17/02/2010
363	Trench 1, W section from N to S	W	17/02/2010
364	Trench 2, S facing section of sondage	N	17/02/2010
365	Trench 2, detail of the top of photo 63	N	17/02/2010
366	Trench 2, detail of the base of photo 63	N	17/02/2010
367	Trench 2, W facing section of sondage, N end	E	17/02/2010
368	Trench 2, W facing section of sondage, S end	E	17/02/2010
369	Trench 2, W facing section of sondage	NE	17/02/2010
370	Trench 2, W facing section of sondage, S end	E	17/02/2010
371	Trench 2, ditch cut 230	S	17/02/2010
372	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
373	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010

<b>No.</b>	<b>Description</b>	<b>From</b>	<b>Date taken</b>
374	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
375	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
376	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
377	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
378	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
379	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
380	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
381	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
382	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
383	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
384	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
385	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
386	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
387	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
388	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
389	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
390	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
391	Trench 1, shots of masonry 110 and 121 from N to S	E	17/02/2010
392	Trench 1, shots of masonry 110, from W to E	NE	17/02/2010
393	Trench 1, shots of masonry 110, from W to E	NE	17/02/2010
394	Trench 1, shots of masonry 110, from W to E	NE	17/02/2010
395	Trench 1, shots of masonry 110, from W to E	NE	17/02/2010
396	Trench 1, shots of masonry 110, from W to E	NE	17/02/2010
397	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
398	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
399	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
400	Trench 1, shots of masonry 110, from W to E	N	17/02/2010



No.	Description	From	Date taken
401	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
402	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
403	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
404	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
405	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
406	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
407	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
408	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
409	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
410	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
411	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
412	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
413	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
414	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
415	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
416	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
417	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
418	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
419	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
420	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
421	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
422	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
423	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
424	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
425	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
426	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
427	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
428	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
429	Trench 1, shots of masonry 110, from W to E	N	17/02/2010
430	Trench 1, junction between 110 and 111	NE	17/02/2010
431	Trench 1, junction between 110 and 111	NE	17/02/2010
432	Trench 1, junction between 110 and 111	NE	17/02/2010
433	Trench 1, junction between 110 and 111	NE	17/02/2010
434	Trench 1, junction between 110 and 111	NE	17/02/2010
435	Trench 1, masonry of the Barbican: 111, 112 and 113	E	17/02/2010
436	Trench 1, masonry of the Barbican: 111, 112 and 113	E	17/02/2010
437	Trench 1, masonry of the Barbican: 111, 112 and 113	E	17/02/2010
438	Trench 1, masonry of the Barbican: 111, 112 and 113	E	17/02/2010
439	Trench 2, masonry 206 and 229	W	17/02/2010
440	Trench 2, masonry 206 and 229	W	17/02/2010

No.	Description	From	Date taken
441	Trench 2, masonry 206	W	17/02/2010
442	Trench 2, masonry 206	W	17/02/2010
443	Trench 2, masonry 206	W	17/02/2010
444	Trench 2, masonry 206	W	17/02/2010
445	Trench 2, S face of masonry 206	N	17/02/2010
446	Trench 2, S face of masonry 206	N	17/02/2010
447	Trench 2, S face of masonry 206	N	17/02/2010
448	Trench 2, S face of masonry 206	N	17/02/2010
449	Trench 2, S face of masonry 206	N	17/02/2010
450	Trench 2, S face of masonry 206	N	17/02/2010
451	Trench 2, S face of masonry 206	N	17/02/2010
452	Trench 2, S face of masonry 206	N	17/02/2010
453	Trench 2, S face of masonry 206	N	17/02/2010
454	Trench 2, S face of masonry 206	N	17/02/2010
455	Trench 2, S face of masonry 206	N	17/02/2010
456	Trench 2, S face of masonry 206	N	17/02/2010
457	Trench 2, S face of masonry 206	N	17/02/2010
458	Trench 2, S face of masonry 206	N	17/02/2010
459	Trench 2, curve of masonry at SE corner of 206	NW	17/02/2010
460	Trench 2, curve of masonry at SE corner of 206	NW	17/02/2010
461	Trench 2, curve of masonry at SE corner of 206	NW	17/02/2010
462	Trench 2, curve of masonry at SE corner of 206	NW	17/02/2010
463	Trench 2, curve of masonry at SE corner of 206	NW	17/02/2010
464	Trench 2, curve of masonry at SE corner of 206	NW	17/02/2010
465	Trench 2, curve of masonry at SE corner of 206	NW	17/02/2010
466	Trench 2, curve of masonry at SE corner of 206	NW	17/02/2010
467	Trench 2, curve of masonry at SE corner of 206	NW	17/02/2010
468	Trench 2, curve of masonry at SE corner of 206	NW	17/02/2010
469	Trench 2, E face of masonry 206	W	17/02/2010
470	Trench 2, E face of masonry 206	W	17/02/2010
471	Trench 2, E face of masonry 206	W	17/02/2010
472	Trench 2, E face of masonry 206	W	17/02/2010
473	Trench 2, junction between masonry 205 and 231	W	17/02/2010
474	Trench 2, junction between masonry 205 and 231	W	17/02/2010
475	Trench 2, junction between masonry 205 and 231	W	17/02/2010
476	Trench 2, junction between masonry 205 and 231	W	17/02/2010
477	Trench 2, junction between masonry 205 and 231	W	17/02/2010
478	Trench 2, junction between masonry 205, 213 and 231	W	17/02/2010
479	Trench 2, junction between masonry 205 and 231	W	17/02/2010
480	Trench 2, junction between masonry 205 and 231	W	17/02/2010
481	Trench 2, junction between masonry 205, 213 and 231	W	17/02/2010
482	Trench 2, junction between masonry 205 and 213	W	17/02/2010

No.	Description	From	Date taken
483	Trench 2, junction between masonry 205 and 213	W	17/02/2010
484	Trench 2, junction between masonry 205 and 213	W	17/02/2010
485	Trench 2, junction between masonry 205 and 213	W	17/02/2010
486	Trench 2, junction between masonry 205 and 231	SW	17/02/2010
487	Trench 2, E face of 205	SW	17/02/2010
488	General shot of trench 1	NE	17/02/2010
489	General shot of trench 1	NE	17/02/2010
490	General shot of trench 1	N	17/02/2010
491	General shot of trench 2	NE	17/02/2010
492	Trench 1, probable fill 142	N	18/02/2010
493	Trench 1, probable fill 142	N	18/02/2010
494	Trench 1, N wall of door through Barbican 111/ 147	NE	19/02/2010
495	Trench 1, N wall of door through Barbican 111/ 147	NW	19/02/2010
496	Trench 1, top of N wall 147 of door through Barbican	NW	19/02/2010
497	Trench 1, S wall of door through Barbican 112/ 148	SE	19/02/2010
498	Trench 1, S wall of door through Barbican 112/ 148	SW	19/02/2010
499	Trench 1, top of S wall 148 of door through Barbican	SW	19/02/2010
500	Trench 1, W end of door through Barbican: 111; 112 and 113	W	19/02/2010
501	Trench 1 backfilled	NE	19/02/2010
502	Trench 2 backfilled	N	19/02/2010

**A5. APPENDIX 5: LIST OF SAMPLES**

<b>Sample No.</b>	<b>Context No.</b>	<b>Description</b>	<b>No. Of Bags</b>
1	<b>210</b>	Trench 2, mortar spread	1
2	<b>211</b>	Trench 2, fill of cut <b>212</b>	1
3	<b>215</b>	Trench 2, coal rich sill layer	1
4	<b>217</b>	Trench 2, coarse mortar layer	1
5	<b>220</b>	Trench 2, fill of cut <b>221</b>	1
6	<b>214</b>	Trench 2, substantial silty clay deposit across trench	1
7	<b>145</b>	Trench 1, fill of cut <b>146</b>	1
8	<b>105</b>	Trench 1, substantial silty clay deposit	2
9	<b>114</b>	Trench 1, ash, stone and silt deposit	2
10	<b>115</b>	Trench 1, orangeish brown clay deposit	2
11	<b>138</b>	Trench 1, grey coarse silt in SE corner of trench	2
12	<b>116</b>	Trench 1, thin charcoal rich lens	1
13	<b>222</b>	Trench 2, sandstone and loose mortar deposit	1
14	<b>223</b>	Trench 2, ash rich silty clay	1
15	<b>224</b>	Trench 2, fill of cut <b>232</b>	1
16	<b>225</b>	Trench 2, pinkish clay, probably natural	1
17	<b>131</b>	Trench 1, fill of cut <b>132</b>	1
18	<b>209</b>	Trench 2, Mortar layer in SW corner	1

**A6. APPENDIX 6: LIST OF CATEGORY 1 NUMBERS**

<b>Context no.</b>	<b>Description</b>
1	E stretch of curtain wall
2	E face of SE part of Mid tower
3	Curving SE side of Fore tower
4	E side of E wall of Barbican
5	Curving masonry at S end of E wall of Barbican
6	W side of E wall of Barbican, to the S of <b>10</b>
7	W side of E wall of Barbican, to the N of <b>10</b>
8	S face of N wall between E and W walls of Barbican
9	N face of S wall between E and W walls of Barbican
10	S face of S wall between E and W walls of Barbican
11	E face of W wall of Barbican, to N of <b>9</b>
12	E face of W wall of Barbican, to S of <b>10</b>
13	Curving masonry at S end of W wall of Barbican
14	W face of W wall of Barbican
15	N face of corridor through <b>14</b>
16	S face of corridor through <b>14</b>
17	Curving SW side of Fore tower
18	W face of SW part of Mid tower
19	W stretch of curtain wall
20	E face of bridge support
21	N face of bridge support
22	W face of bridge support
23	S face of E and W walls of Barbican, also the top of its S end
24	E side of entrance to castle
25	W side of entrance to castle

**A7. APPENDIX 7 : LIST OF CATEGORY 2 NUMBERS**

<b>Context no.</b>	<b>Description</b>
001	Lowest major build on E face of Mid tower
002	String course above <b>001</b>
003	Build above <b>002</b>
004	Chamfered wash course above <b>003</b>
005	Ashlar masonry (5 courses) above <b>004</b>
006	Build above <b>005</b>
007	Projecting upper build of E face of Fore tower, above <b>006</b>
008	Window in <b>006</b>
009	Window/ garderobe in <b>007</b>
010	Recent Historic Scotland re- facing to Fore tower
011	Basal greenstone build of SE corner of Fore tower
012	Fragmentary red sandstone band above <b>011</b>
013	Greenstone build above <b>012</b>
014	Gun loop in <b>013</b>
015	Greenstone build above and to the S of <b>014</b>
016	2 courses of red sandstone wash course above <b>015</b>
017	Greenstone build above <b>016</b>
018	Single horizontal course of red sandstone above <b>017</b>
019	Single horizontal course of red sandstone above <b>018</b>
020	Single horizontal course of red sandstone above <b>019</b>
021	Single horizontal course of red sandstone above <b>020</b>
022	Uppermost greenstone build above <b>021</b>
023	E wall of Barbican
024	Door/ gun loop in <b>023</b>
025	Rounded masonry at S end of <b>024</b>
026	Lowest major build on W face of Mid tower
027	Chamfered wash course above <b>026</b>
028	Ashlar masonry (5 courses) above <b>027</b>
029	Build above <b>028</b>
030	Corbels supporting <b>031</b>
031	Angled (NW- SE) masonry connecting top of E side of Fore tower with E curtain wall
032	Projecting upper build of W face of Fore tower, above <b>073</b>
033	Greenstone masonry forming upper circular part of W face of Mid tower
034	String course above <b>033</b>
035	Greenstone build above <b>034</b>
036	Window aperture within build <b>073</b>
037	Greenstone build of SW corner of Fore tower, above <b>046</b>
038	Chamfered wash course above <b>037</b>
039	Greenstone build above <b>038</b>

<b>Context no.</b>	<b>Description</b>
040	Red sandstone string course above <b>039</b>
041	Greenstone build above <b>040</b>
042	Small area of greenstone build near top of SW corner of Fore tower
043	W wall of Barbican
044	Door within <b>043</b>
045	Rounded masonry at S end of <b>043</b>
046	Robbed out/ decayed red sandstone courses below <b>037</b>
047	Basal build (greenstone) of SW part of fore tower
048	Gun loop within <b>037</b>
049	E- W wall connecting <b>023</b> and <b>043</b>
050	In- filled aperture near top of <b>043</b>
051	Base of S wall of fore tower (greenstone)
052	Door within <b>051</b>
053	Vault springing from the E face of <b>043</b>
054	Vault springing from the W face of <b>023</b>
055	Projecting masonry above <b>051</b>
056	Sandstone rebuild at W end of <b>055</b>
057	Main castle entrance
058	Ashlar red sandstone build above <b>055</b>
059	Gun loop in <b>058</b>
060	Recess above <b>059</b> , also in <b>058</b>
061	Projecting greenstone masonry above <b>058</b>
062	Door aperture (N- S) within thickness of wall <b>023</b>
063	Window aperture above and to the W of <b>062</b>
064	Heraldic device on S face of Fore tower, above string course <b>020</b>
065	Wash course near base of E face of Mid tower (below <b>001</b> )
066	Build below <b>065</b>
067	Wash course near base of W face of Mid tower (below <b>076</b> )
068	Masonry below <b>067</b>
069	Rebuild at top of wall <b>023</b>
070	String course above <b>029</b>
071	Build above <b>070</b>
072	String course above <b>071</b>
073	Build above <b>072</b>
074	Scar of arch over <b>058</b>
075	Lower string course on W face of Fore tower (below <b>026</b> )
076	Build below <b>075</b>

**A8. APPENDIX 8 : LIST OF SBR DRAWINGS**

<b>No.</b>	<b>Type</b>	<b>Description</b>	<b>Scale</b>
001	Plan	Plan of gatehouse at ditch level	1: 20
002	Plan	Plan of gatehouse at entrance level, Part 1 S end	1: 20
003	Plan	Plan of gatehouse at entrance level, Part 2 N end	1: 20
004	Elevation	E facing elevation of Gatehouse	1: 20
005	Profile	Profile up SW corner of Gatehouse	1: 20
006	Profile	Profile up SE corner of Gatehouse	1: 20
007	Elevation	W facing elevation of Gatehouse	1: 20
008	Elevation	S facing elevation of Gatehouse	1: 20



A9. APPENDIX 9: EXCAVATION ILLUSTRATIONS

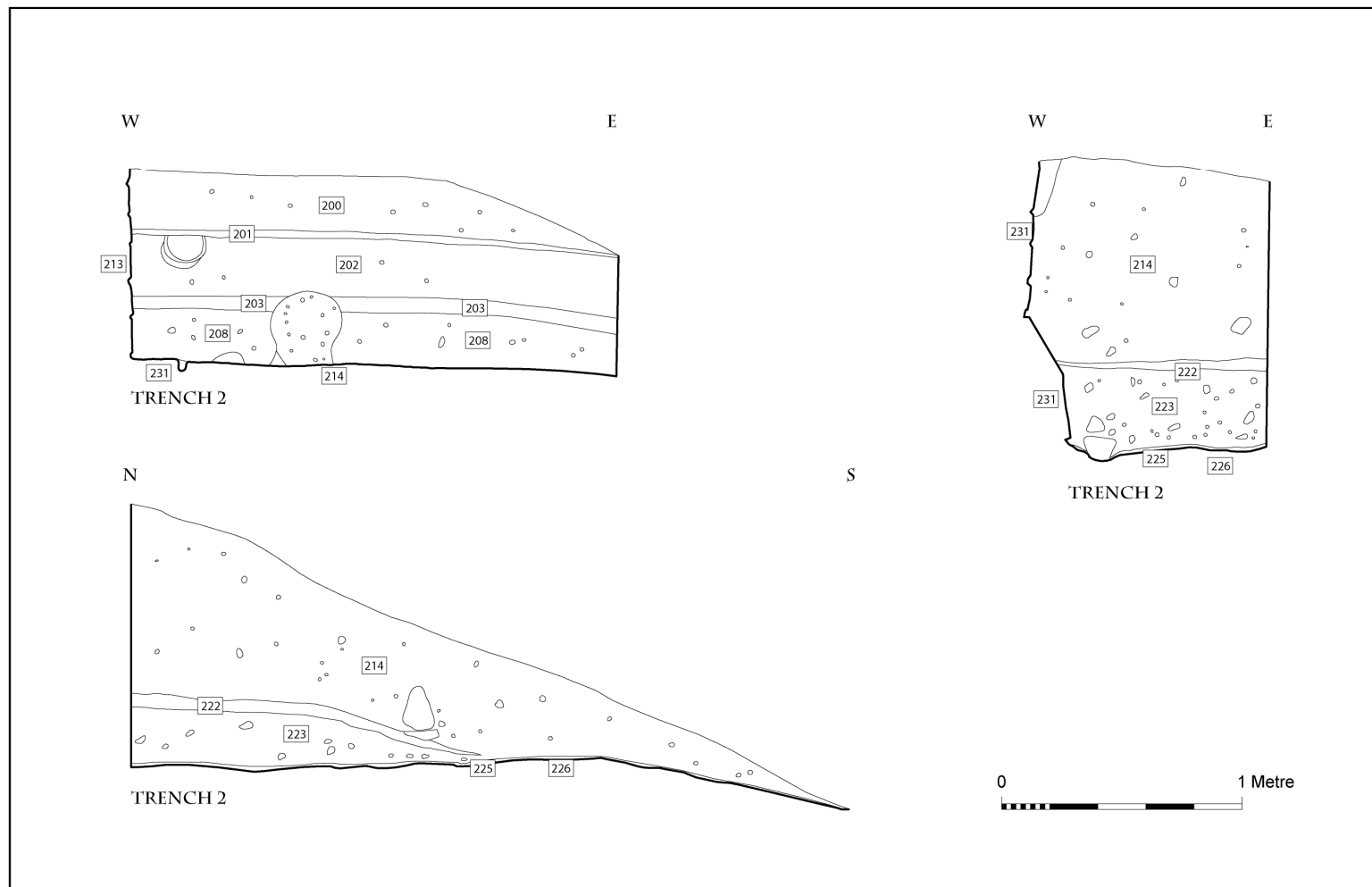


Figure 2: Excavation drawings 9, 10 & 11

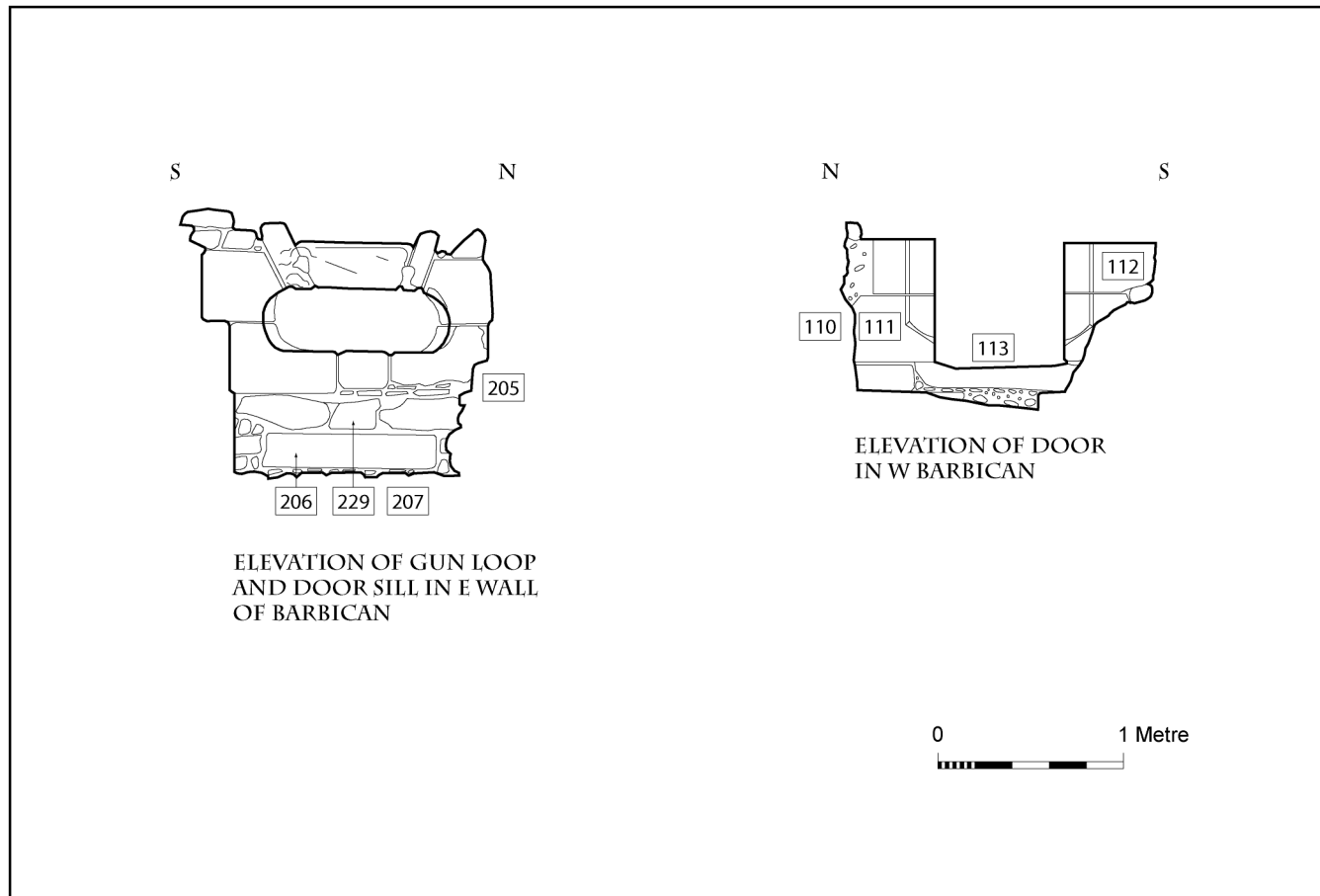


Figure 3: Excavation drawing 18

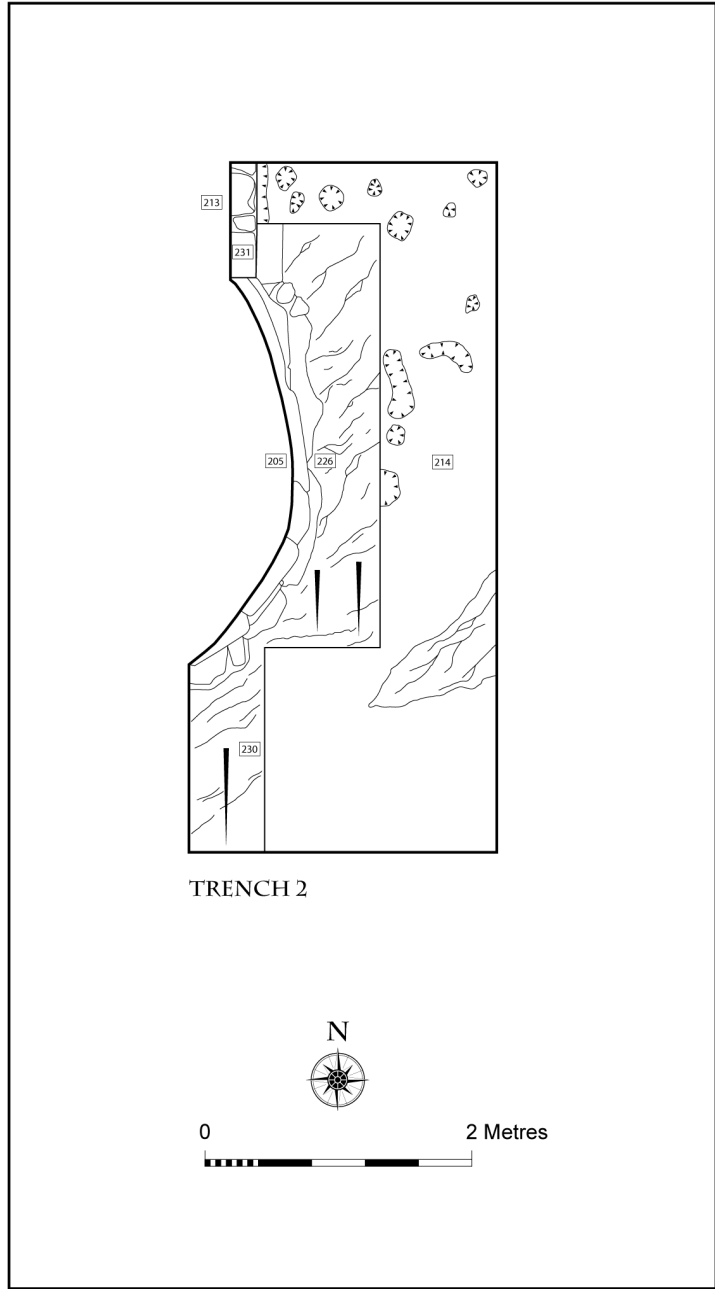


Figure 4: Excavation drawing 7

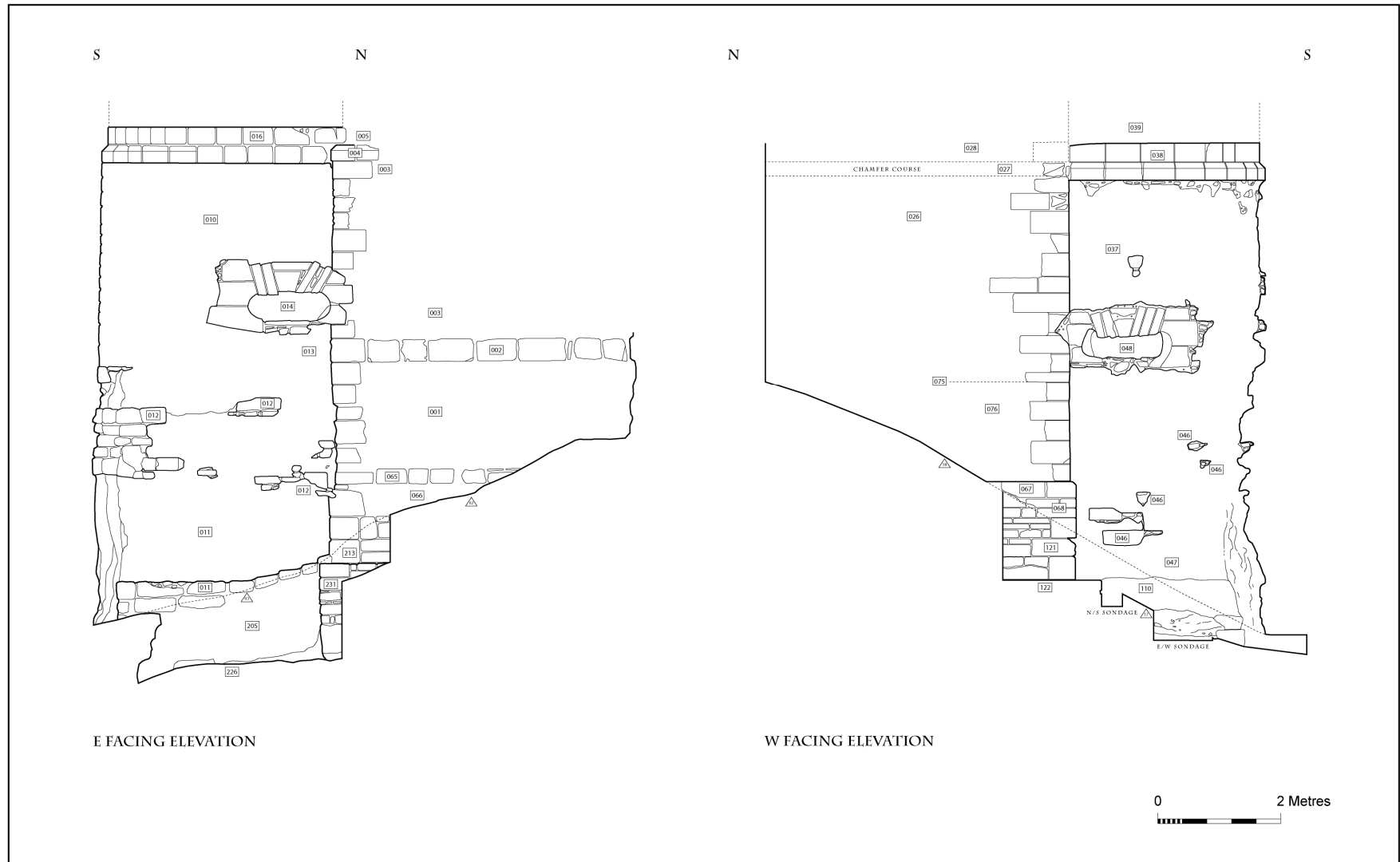


Figure 5: SBR drawings 4 & 7

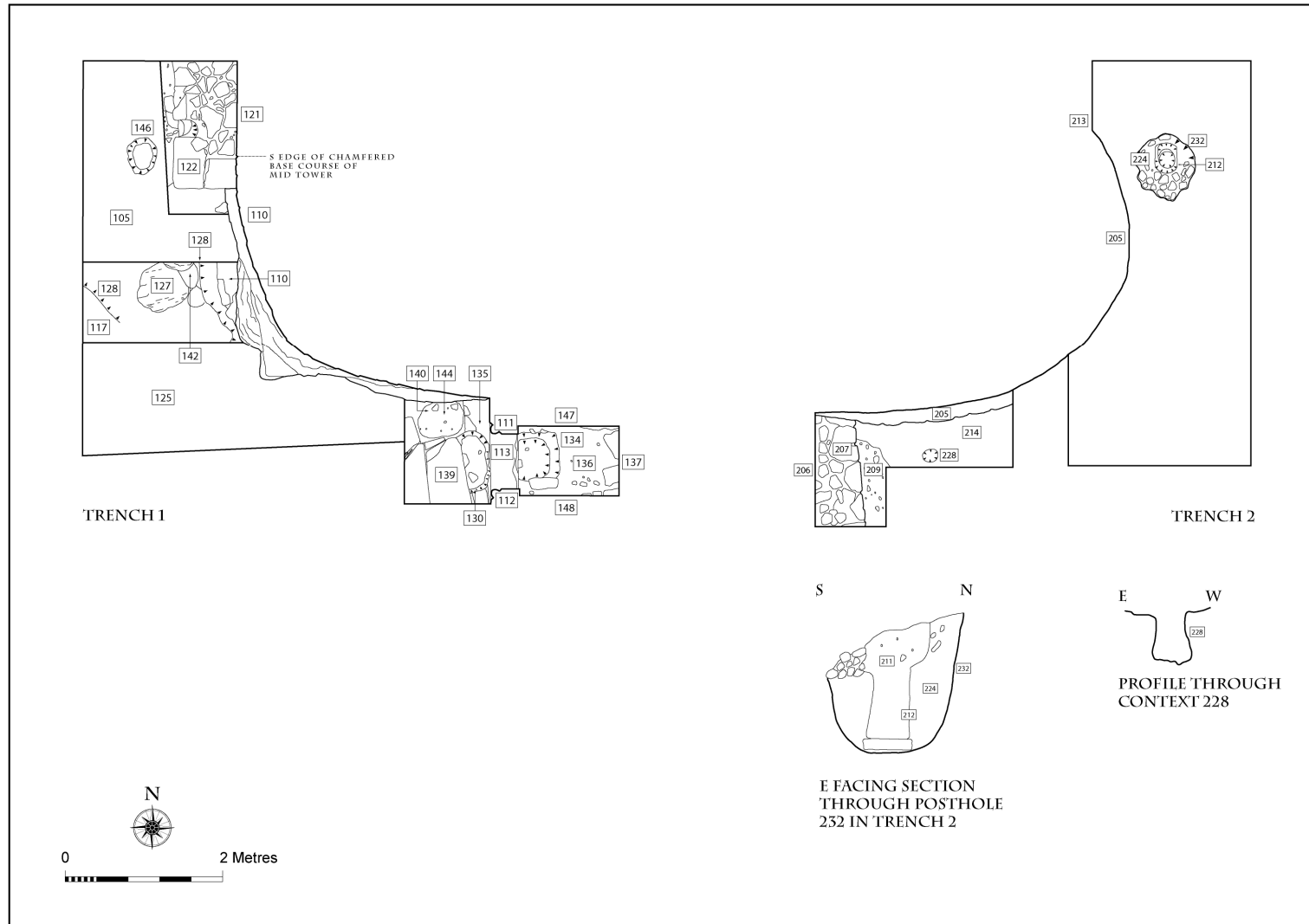


Figure 6: Excavation drawings 2 – 5

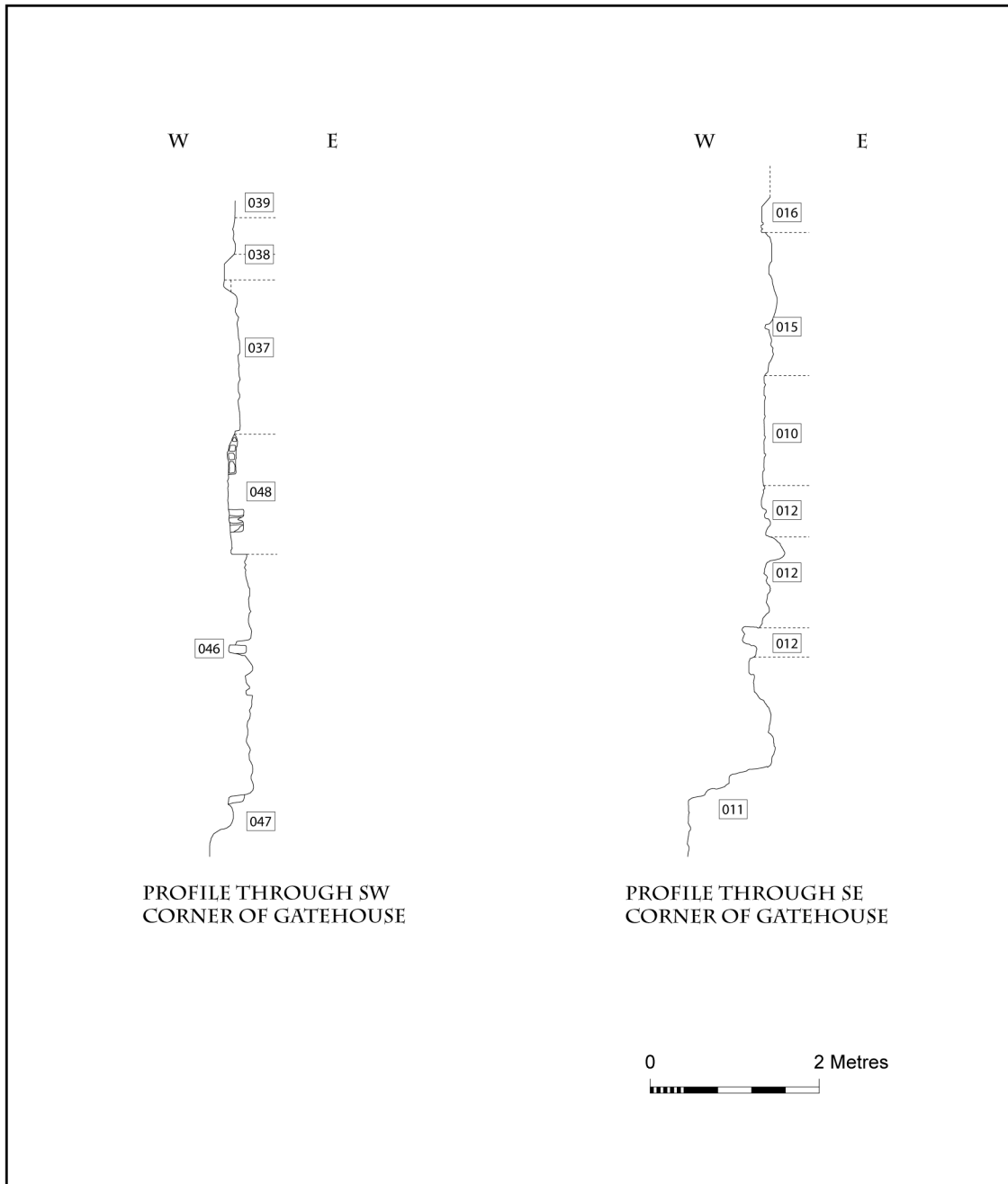


Figure 7: SBR drawings 5 & 6

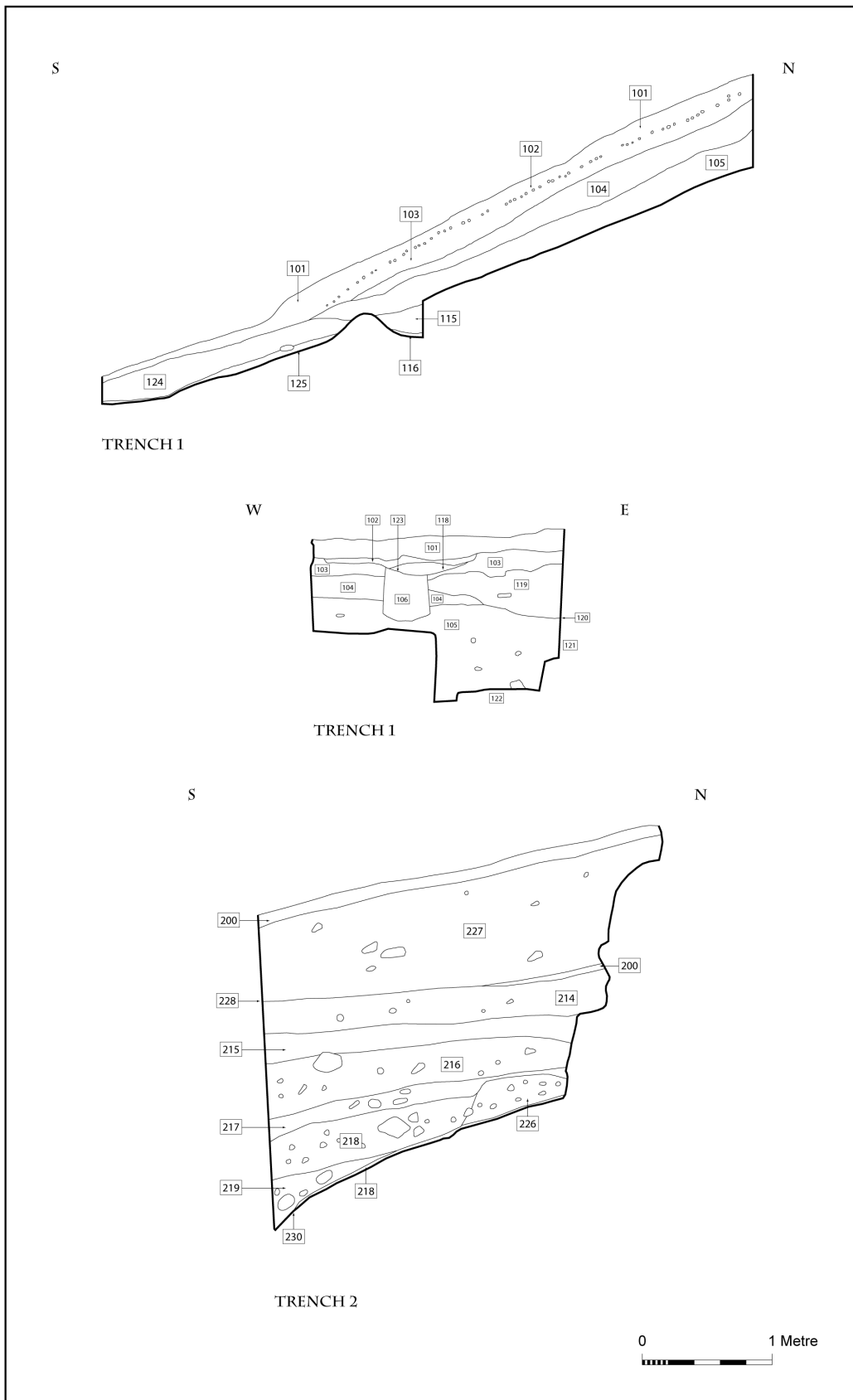


Figure 8: Excavation drawings 17, 15 & 6

## A10. APPENDIX 10: FINDS REGISTER

### Ceramics

Trench 2

F223

1 x sherd reduced ware green glaze ware – cooking pot?

1 x body sherd – buff coloured / unglazed exterior = reduced grey ware on inside

1 x basal sherd – pale sandy /buff coloured, unglazed ware – import? – looks early medieval

F102

6 misc sherds of modern crockery

F104

1 x bodysherd- unglazed buff coloured interior + green glazed exterior

F215

1 x sherd buff coloured ware + green glaze externally

F101

C 20 x misc sherds of modern crockery

1 fragment pantile

F115

1 body sherd reduced ware green glazed pottery

F103

C 40 misc frags modern crockery

F202

2 x sherds modern crockery

1x body sherd – grey ware with green glaze

### Stone

F106

1 x flint chip

### Glass

F202

5 x misc frags of coloured vessel glass – modern

F208

6 misc frags of modern vessel and window glass

F223

Frag of vessel glass



### **Clay pipe**

F102

1 x stem frag

F104

Bowl – c. 1640 -50 (milled and bottered)

F202

3 stem frags (mid 17thC)

F119

1 x stem frag (mid 17thC)

### **Iron**

F117

1 x iron nail

F100

1 x iron nail

F218

1 x large bolt/ nail / for conservation

F133

1 x fe obj – probable nail

F223

1 x large nail for conservation

### **Cu Alloy**

F222

1 x cu alloy ring – not finger ring for conservation

F103

2 x cu alloy pins

1 x lace end

F104

1 cu alloy obj.

## **Faunal Remains**

Bone retrieved from the following contexts

F101

F102

F103

F104 + shell

F105 + shell

F114

F115

F117

F120

F129

F131 + shell

F138

F202 + shell

F208

F216 (duck skull, beak)

F219

F222

F223