

HAREWOOD CASTLE, HAREWOOD,
WEST YORKSHIRE

ARCHAEOLOGICAL AND ARCHITECTURAL
SURVEY AND RECORDING

VOLUME 3: APPENDICES



Ed Dennison Archaeological Services Ltd
18 Springdale Way
Beverley
East Yorkshire
HU17 8NU

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WEST YORKSHIRE

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Author: Shaun Richardson & Ed Dennison

Ed Dennison Archaeological Services Ltd
18 Springdale Way
Beverley
East Yorkshire HU17 8NU

On behalf of

The Estate Office
Harewood Estate
Harewood
Leeds LS17 9LF

English Heritage
37 Tanner Row
York
YO1 6WP

**ARCHAEOLOGICAL AND ARCHITECTURAL SURVEY AND RECORDING,
HAREWOOD CASTLE, HAREWOOD, WEST YORKSHIRE**

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APPENDIX 1
GAZETTEER OF ROOM DESCRIPTIONS

Harewood Castle: Room Descriptions

Room number: SWT1 (chamber)

Location: Lowest level of south-west tower

Internal Dimensions: 2.75m N-S by 3.30m E-W

Height: c.2.80m

Description: The lowest chamber within the south-west tower. It is accessed from the south-west corner of the lower hall MB2 through a doorway (D13), located in the former south side of window W60. At the time of survey, the floor of the chamber was a hard-packed accumulated rubble and soil and is probably some 0.40m above its original level.

The chamber is lit by a single narrow splayed window (W65) in the narrower north wall and was heated by a low fireplace (FP5) with a flat stone lintel, situated rather awkwardly beneath the window, in the chamber's north-west angle. There are wall cupboards to the east and west walls, and a stone sink in the south-east corner; the sink would formerly have emptied through an external spout (S31) but this now lies below the external ground level here.

The chamber was formerly crossed by one north-south aligned beam, the sockets for which can be seen in the north and south walls. The beam supported five closely spaced east-west aligned joists, and again the sockets for these can be seen in the east and west walls. The height of the joists sockets indicates that they were lodged across the beam, rather than tenoned into it [1].

Elements: *Doors:* One. D13 (into chamber from W60 and MB2) - 1.65h x 0.80w.

Windows: One. W65 (N side) - light 0.10w x 0.80h, opening 0.95w x 1.25h.

Fireplaces: One. FP5 (NW angle of chamber) 1.00w x 0.55d x 0.60h.

Cupboards: Two. E wall - 0.65w x 0.70d x 0.60h; W wall - 0.60w x 0.60d x 0.60m h.

Garderobes: None.

Other: One sink in SW corner draining externally.

Masons' marks: None.

Comments:

Plan level: 1 **Elevations:** 35-38 (interior); 12-15 (external).

Photos b/w: 14/12-13.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: SWT2 (chamber and garderobe) **Location:** South-west tower

Internal Dimensions: 2.75m N-S by 3.30m E-W.

Height: 2.70m

Description: A chamber in the south-west tower. It is accessed via the mural stair passage leading from doorway D38, located in the south side of window W56 to the south-west corner of the upper hall (MB3). Doorway D38 is chamfered to the north (window) face and rebated to the south (passage), although there is now no surviving evidence for the door that must have been present here. The passage itself is 1.90m long and 0.70m wide, although it narrows slightly towards the south end. The floor steps downwards over six steps from north to south, so that the floor level of the chamber is set some 1.40m lower than doorway D38. The ceiling of the passage is formed, at the north end, by flagstones laid across its width; there is then a steep downward angled section before the level ceiling resumes.

At the south end of the passage, doorway D36 leads into the chamber itself. The chamber is lit by two windows, W68 to the wider west wall and W64 to the narrower north wall. The window opening of W68 is very narrow and the window is slightly unevenly splayed. The window was formerly equipped with an internal shutter, hinged to the north side. The window opening to W64 is wider and more evenly splayed. Window W64 was also provided with an iron grille, comprising at least three cross-bars socketed into the frame and an internal shutter, hinged to the west side. There is a fireplace (FP11) with a flat stone lintel adjacent to window W68 in the west wall. The back of the fireplace is reddened.

At the south-east corner of the chamber, there is a tall recess. The recess is 1.75m high and therefore tall enough to stand in; the interior also projects beyond the east wall of the chamber, giving it a maximum width of 0.95m. There is a stone sink set into the base of the cupboard; the sink would formerly have emptied through an external spout (S30) in the south wall but this now lies below the external ground level here.

The chamber was formerly crossed by a north-south aligned beam, with six joists running east and west, for which the sockets survive in the east and west walls of the chamber; the relative heights of these features show that the joists were lodged across the beam, rather tenoned into it.

The chamber had an en suite garderobe (G3), accessed via a doorway (D37) at the north end of the east wall. This doorway is rebated to its east face, and was formerly fitted with a door hinged on the north side. The doorway leads into a short east-west aligned passage, floored with exposed core with a ceiling of flagstones over. The east end of the passage is fitted with a wrought-iron door grille of probable 19th century date. Beyond the door, the passage returns to the south to form the garderobe proper, which is c.1.25m square. The raised seat and the chute are located against the south wall; the seat has been largely destroyed, although the square chute can still be seen. The external base of the chute is now buried beneath the exterior ground level. The garderobe is lit by a narrow window (W80) in the south wall, formerly fitted with a shutter hinged to the west side. There is a small recess or cupboard in the east wall, perhaps formerly used to house a light. The ceiling over the garderobe is formed by flagstones, supported on a chamfered corbel running parallel to the east wall. There is a narrow low level opening in the north wall of the garderobe, which has been crudely hacked through from the upper hall MB3 [1].

Elements: *Doors:* Three. D38 (from W56 into passage) - 0.55w x 1.80h; D36 (into chamber from passage) - 0.60w x 1.15h; D37 (to garderobe passage) - 0.60w x 2.00h.

Windows: Three. W64 (N wall) - light 0.25w x 1.00h, opening 1.05w x 1.15h; W68 (W wall) - light 0.15w x 0.95h, opening 1.00w x 1.50h; W80 (garderobe) - light 0.15w x 0.45h, opening 0.45w x 0.45h.

Fireplaces: One. FP11 (W side of chamber) - 0.95w x 0.45d x 0.65h.

Cupboards: One. In E side of garderobe G3 - 0.30w x 0.20d x height not recorded.

Garderobes: One. G3 - c.1.25 square.

Other: Full height wall recess in SE corner of chamber - 0.95w x 0.70d x 1.75h; Sink in base draining externally.

Masons' marks: Two in mural passage from MB3, one in chamber, four in garderobe (door chamfer).

Comments: The wall 'cupboard' in the chamber may form a space in which a person could wash, by standing in the recess and then pouring water over themselves, which would drain through the sink in the floor and out through an external spout. Alternatively, it may have been a urinal, although given that the chamber had an en suite garderobe, this seems less likely. The chamber is accessed via a short straight passage.

Harewood Castle: Room Descriptions

Plan level: 4 **Elevations:** 35-38 (internal); 11-15 (external).

Photos b/w: 3/3, 3/9; 14/1-3, 14/5-8.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: SWT3 (chamber and garderobe) **Location:** South-west tower

Internal Dimensions: 2.85m N-S by 3.50m E-W. **Height:** c.3.20m

Description: A chamber in the south-west tower. It is accessed via the mural stair passage leading from doorway D41, located in the south side of window W54 in the west wall of the upper hall (MB3). The doorway is chamfered to the north face and rebated to the south, and was formerly fitted with a door hinged to the east side; the floor of the passage retains a quarter-circle step with an adjacent shallow angled inset to the east wall to allow the door to open. The passage itself is 5.20m long and 0.75m wide, widening slightly at the south end where there is a second doorway (D45; see below). From doorway D41 at its north end, the floor of the passage rises in five steps to a short level section, lit by a small window (W55) formerly fitted with a shutter hinged on the north side. At the south end of the level section there is a sink set into 0.50m high in the west wall which exits through the wall (S18). The floor of the passage then steps downwards over five steps towards a second doorway D45, rebated to the south face and formerly fitted with a door hinged on the east side. The ceiling of the passage is formed by flagstones laid across its width, which step or down as the floor of the passage.

At the south end of the passage, doorway D45 leads into the chamber itself. The chamber is lit by two windows, W63 in the north wall and W71 in the south wall. The single-light north window (W63) was formerly equipped with an iron grille, comprising at least two cross-bars socketed into the frame, and had an internal shutter, hinged to the west side. The window opening of the south window (W71) has a shouldered head, supported on curved corbels; the corbel to the east side has a wooden plug to its south face. The window was formerly equipped with an iron grille comprising three cross-bars and a single vertical standard socketed into the frame, and had an internal shutter hinged to the east side. The bases of both windows were set c.0.20m above the internal floor of the chamber. There is a fireplace (FP13) with a flat stone lintel in the west wall. The lintel has a sub-rectangular relieving piece over and the back is reddened. There are no wall cupboards in the chamber. The chamber was formerly crossed by an east-west aligned beam, with seven closely spaced joists running north and south; the joists were lodged over, rather than tenoned into the beam.

The chamber had an en suite garderobe (G5), accessed via a doorway (D46) at the north end of the east wall. The doorway is chamfered to the south jamb of the west face and rebated to its east face, although there is no clear evidence for a door having been fitted. The doorway leads into a short east-west aligned passage, floored with exposed core and having a ceiling of flagstones over, supported on chamfered corbels to the east side. The walls of the passage splay outwards slightly towards the east end; the north wall appears to butt the surround of doorway D46. The east end of the wall also steps out slightly at c.1m above floor level. At the east end of the passage, it returns to the south to form the garderobe proper, which measures 1.70m N-S by 1.25m E-W. The raised seat and the chute are located in the south-west corner; the seat has been largely destroyed, although the square chute can still be seen. The external base of the chute is now buried beneath the exterior ground level. The garderobe is lit by a narrow window W79 in the south wall, formerly equipped with an iron grille comprising two cross-bars and a single vertical standard socketed into the frame, and fitted with an internal shutter hinged to the west side. The east wall of the garderobe has been cut through into a former wall cupboard located on the west side of window W76 to the upper hall MB3 [1].

Elements: *Doors:* Three. D41 (from W54 into passage) - 0.55w x 1.90h ; D45 (into chamber from passage) - 0.65w x 1.70h; D46 (to garderobe) - 0.65w x 1.80h.

Windows: Four. W55 (passage) - light 0.15w x 0.75h, opening 0.70w x height not recorded; W63 (N wall) - light 0.30w x 0.90h, opening 0.65w x 0.90h, recess 1.00w x 0.50d x 1.55h; W71 (S wall) - light 0.30w x 0.90h, opening 0.70w x 1.30h, recess 1.10w x 0.80d x 2.15h; W79 (garderobe) - light 0.10w x 0.65h, opening 0.10w x 0.65h.

Fireplaces: One. FP13 (W side of chamber) - 1.05w x 0.50d x 0.75h.

Cupboards: None.

Garderobes: One. G5 - 1.70 N-S x 1.25 E-W.

Other: Sink in passage, draining externally.

Masons' marks: Seven in mural passage from MB3, 39 in chamber, nine in garderobe (three on dorr chamfer).

Comments: The splay, butt joint and step to the north wall of garderobe G3 may indicate an alteration or change of plan here during the building process.

Plan level: 5 **Elevations:** 35-38 (internal); 11-15 (external).

Harewood Castle: Room Descriptions

Photos b/w: 5/11-14; 13/10-13, 13/16-18; 28/18; 40/13-14, 40/16-18; 41/1-2, 41/4; 42/11.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: SWT4 (chamber and garderobe) **Location:** South-west tower

Internal Dimensions: 2.90m N-S by 3.55m E-W. **Height:** c.3.70m

Description: A chamber in the south-west tower. It is accessed from the wall-walk running along the top of the west side of the middle block. The doorway (D48) into the chamber is chamfered to the north face and rebated to the south, and was formerly fitted with a door hinged on the west side. There are then three steps leading down into the chamber itself.

The chamber is lit by three windows, W62 in the north wall, W67 in the west wall and W70 in the south wall. Windows W62 and W67 are so narrow that they were not fitted with grilles, but W70 was; the grille comprised two cross-bars and single vertical standard socketed into the frame. All three windows are of differing form. W62 is set within a square window opening and was formerly fitted with a shutter hinged to the east side. W67 has a deeply splayed north jamb but a straight south jamb, provided with a wall cupboard, and was fitted with a shutter hinged to the north side. Like W62, W70 is also placed within a square opening but a much larger one; the base is set at the former internal floor level, while the segmental rear-arch over rises to 2.45m above floor level. The single-light window was formerly equipped with an iron grille, comprising two cross-bars and a single vertical standard, and was fitted with a shutter hinged to the east side. Each side of the recess in which the window is located is provided with a small wall cupboard. There is a fireplace (FP15) with a flat stone lintel in the west wall, and a sub-rectangular relieving piece over the lintel. The back of the fireplace is reddened, while the flue can be seen to be sooted internally for several metres above the fireplace lintel.

The chamber was formerly crossed by a north-south aligned beam, with five joists running to the east; the joist holes to the west side of the chamber have been destroyed. The joists were lodged over, rather than tenoned into, the beam.

The chamber had an en suite garderobe (G7), accessed via a doorway (D49) at the north end of the east wall. The doorway is chamfered to the south jamb of the west face and rebated to its east face, and was formerly fitted with a door hinged to the north side. The garderobe is approximately L-shaped in plan, measuring 2.20m N-S by 0.95m E-W and is floored with exposed core; the ceiling over is of flagstones. The raised seat and the chute are located at the south end of the garderobe. The seat has been largely destroyed, although the square chute can still be seen. The chute is placed at the far east end of the former seat; the external base of the chute is now buried beneath the exterior ground level. A very small window (W72) angled through the wall lights the garderobe. A small recess in the east wall houses a stone sink draining to an external spout (S23) in the south wall. To the north of the recess, the east wall of the garderobe has been cut through into a former wall cupboard located on the west side of window W76 to the upper hall MB3 [1].

Elements: *Doors:* Two. D48 (into chamber from wall-walk) - 0.55w x 1.90h; D49 (to garderobe) - 0.60w x 1.30h.

Windows: Four. W62 (N wall) - light 0.15w x 0.90h, opening 0.40w x 1.10h, recess 1.10w x 0.60d x 1.85h; W67 (W wall) - light 0.15w x 0.95h, opening 1.00w x 2.30h; W70 (S wall) - light 0.30w x 0.95h, opening 0.60w x 1.40h, recess 1.40w x 0.80d x 2.20h; W72 (garderobe) - light 0.20w x 0.45h, opening 0.20w x 0.45h.

Fireplaces: One. FP15 (W side of chamber) - 0.95w x 0.55d x 0.75h.

Cupboards: Three. W side of W70 - 0.55w x 0.35d x 0.55h; E side of W70 - 0.55w x 0.35d x 0.60h; S side of W67 - 0.85w x 0.50d x 0.75h.

Garderobes: One. G7 - 2.20 N-S x 0.95 E-W.

Other:

Masons' marks: 26 in chamber, two in garderobe.

Comments:

Plan level: 6 **Elevations:** 35-38 (internal); 11-15 (external).

Photos b/w: 11/15, 11/18; 13/4-7; 49/13-14, 49/16-17.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: SWT5 (chamber and garderobe) **Location:** South-west tower

Internal Dimensions: 3.05m N-S by 3.75m E-W.

Height: 3.20m to base of corbels

Description: A chamber in the south-west tower. It was accessed from a flight of steps formerly rising from the south end of the wall-walk running along the top of the west side of the middle block, and may also have given access to the stairs rising above the south end of the upper hall (MB3).

The doorway (D9) in the north wall is rebated to the south face, and was formerly fitted with a door hinged on the east side; the threshold is worn, having developed a concave profile through use. The chamber is lit by three windows, W61 in the north wall, W66 in the west wall and W69 in the south wall. All three windows are of similar form, all being located within rectangular openings, with W61 and W66 having shouldered heads supported on curved corbels, and W69 a flat head; the bases of all three window openings were all set at floor level, but each then steps up 0.50m into the opening. The height and width of the steps might be thought to be suggestive of window seats, although the main step is too narrow to sit on comfortably, and none of the windows have the stone bench form of seat seen elsewhere within the castle. All three windows were equipped with iron grilles, comprising two cross-bars and a single vertical standard socketed into the frame. The north window (W61) was formerly fitted with a shutter hinged on the east side, and the west window (W66) with the same hinge on the south side. The latter also has a wall cupboard to the south side. There is a fireplace (FP18) with a flat lintel in the west wall. The back of the fireplace is reddened and where it has been broken through into the flue behind rising from FP15 (SWT4) on the floor below; both are quite heavily sooted.

The upper parts of the north and south walls each retain a pair of opposed quarter-circle corbels. These may have directly supported two roof trusses, or alternatively may have supported wall plates from which a common rafter-type roof rose; the wall plates may have been set into recesses placed immediately above the corbels in the north wall. To the north and east walls, there are a number of shallow recesses cut into the very top of the surviving wall face; their function is unclear.

The chamber had an en suite garderobe (G9), accessed via a doorway (D53) at the north end of the east wall. The doorway is chamfered to the west face and rebated to its east face, and was formerly fitted with a door hinged on the south side. Some graffiti is preserved on the south side of the door. 'GK LVII' and 'F E Clarke' are pencilled onto the stone, while 'TI' is carved in using stylised letters. There are also the initials 'WT' and 'RC' beneath the date '1762'. The garderobe itself is approximately L-shaped in plan, measuring 2.90m N-S by 0.80m E-W and is floored with exposed core; the ceiling over is of flagstones. The raised seat and the chute are located at the south end of the garderobe. Both are well preserved, the central circular hole to the seat surviving complete; the external base of the chute is now buried beneath the external ground level. The garderobe is lit by a small window (W73) in the south wall, formerly fitted with an internal shutter hinged on the west side [1].

Elements: *Doors:* Two. D9 (into chamber from wall-walk) - 0.60w x 1.30h; D53 (to garderobe) - 0.55w x 1.75h.

Windows: Four. W61 (N wall) - light 0.30w x 0.90h, opening 0.75w x 1.50h, recess 1.20w x 0.30d x 2.50h; W66 (W wall) - light 0.30w x 0.90h, opening 0.70w x 1.55h, recess 1.35w x 0.65d x 2.75h; W69 (S wall) - light 0.35w x 0.90h, opening 0.75w x 1.55h, recess 1.40w x 0.35d x 2.90h; W73 (garderobe) - light 0.10w x 0.70h, opening 0.40w x 0.90h.

Fireplaces: One. FP18 (W side of chamber)- 1.00w x 0.55d x 0.75h.

Cupboards: One. S side of W66 - 0.80w x 0.45d x 0.70h.

Garderobes: One. G9 - 2.90 N-S x 0.80 E-W.

Other:

Masons' marks: 11 in chamber, 12 in garderobe.

Comments: Was the fireplace more frequently used than the others in this tower, hence the reddened appearance and decay of rear? Did the elevated position of the chamber within the tower make it colder than others, and so require more heating?; it is not shielded within the body of the castle to north winds as the chambers on the floors below are.

Plan level: 7 **Elevations:** 35-38 (internal); 11-15 (external).

Photos b/w: 2/14; 8/13; 11/3, 11/5-9, 11/12-14; 12/7; 49/18; 50/1-3.

Harewood Castle: Room Descriptions

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: SWT6 (turret room)

Location: The lower level of the south-west turret

Internal Dimensions: 1.60m N-S by 1.20m E-W.

Height: 2.25m

Description: The lower level of the south-west turret over the south-west tower. This turret must have been reached via the uppermost south side of the castle, itself reached by the stairs rising above the south end of the upper hall MB3, although the exact route is now no longer apparent.

The interior of the turret was accessed via a doorway (D56) in the east wall, rebated to the west face but with no surviving evidence for a door such as pintle recesses. The interior of the room lit by cruciform arrow loops in the south and west walls, and some fragments of the original flagstone floor paving survive. The west and south walls step back 0.10m at ceiling level, to help support the presumably board floor of the level SWT7 above [1].

Elements: *Doors:* One. D56 (entrance into room) - 0.50w x 1.80h.

Windows: None.

Fireplaces: None.

Cupboards: None.

Garderoles: None.

Other: Two cruciform arrow loops in south and west walls.

Masons' marks: None.

Comments:

Plan level: 8

Elevations:

Photos b/w: 6/15, 6/18; 7/1-2, 7/4; 15/1-3, 15/5-6, 15/9, 15/11.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: SWT7 (turret room)

Location: The upper level of the south-west turret

Internal Dimensions: 1.60m N-S by 1.20m E-W.

Height: 2.55m

Description: The upper level of the south-west turret over the south-west tower. This room must have been reached from steps rising up to the west wall of the south-west tower, although the exact route is now no longer apparent. Small blank stone shields survive to the centre of the top of the north, west and south external walls. The interior of the turret was accessed via a doorway (D4) in the north wall, rebated to the south face but with no surviving evidence for a door such as pintle recesses. The interior of the room is lit by cruciform arrow loops in the south and west walls. Scarring to the east and west walls marks the former ceiling height of the room, and there must formerly have been a pitched roof over, as the turret rises a further 1.45m above the scarring, presumably to hide the roof; a small spout (S19) drained the roof [1].

Elements: *Doors:* One. D4 (entrance into room) - 0.60w x 1.60h.

Windows: None.

Fireplaces: None.

Cupboards: None.

Garderoles: None.

Other: Two cruciform arrow loops in south and west walls.

Masons' marks: None.

Comments:

Plan level: 9

Elevations:

Photos b/w: 6/7-9, 6/11-12, 6/14, 6/17.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: SET1 (chamber)

Location: Lowest level of south-east tower

Internal Dimensions: 3.30m N-S by 3.05m E-W.

Height: At least 2.50m

Description: The lowest chamber within the south-east tower. It is accessed from the main newel stair at the south-east corner of the lower hall (MB2) through doorway D20, although the steps leading off the newel stair to the doorway have been removed. The doorway has a flat head, and is rebated to the south (chamber) face; the sides are very weathered and so any evidence for which side the door was hinged on has been removed. At the time of survey, the floor of the chamber was formed by hard-packed accumulated rubble and soil. The maximum height from the soil surface to the former ceiling level is 2.40m, whereas the higher chambers in the tower have a height of 3m or more. Although the chamber was probably not quite as high as these, there is probably 0.50m or more of build-up in the base.

The chamber is lit by a single narrow window W5 in the east wall. This single-light window is set into a rectangular window opening, splayed to the south side but straight to the north; the north side is aligned on the north wall of the chamber. The window is provided with a stone sink in the base of the opening; the sink is very gently inclined and would formerly have emptied through an external spout (S32) but this now lies below the external ground level. There is a small wall cupboard at the north end of the west wall. The chamber was formerly crossed by an east-west aligned beam, with closely spaced joists running to the north and south [1].

Elements: *Doors:* One. D20 (entrance into chamber from main stairs) - 1.45w x 2.00h.

Windows: One. W5 (E wall) - light 0.10w x 0.60h, opening 1.15w x 1.15h.

Fireplaces: None.

Cupboards: One. W wall of chamber - 0.65w x 0.60d x 0.35h.

Garderoles: None.

Other: One sink in window W5 opening, draining externally.

Masons' marks: None.

Comments:

Plan level: 2

Elevations: 8-10 (external), 39-42 (internal)

Photos b/w: 17/2; 35/11-12.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: SET2 (chamber and garderobe) **Location:** First floor of south-east tower

Internal Dimensions: 3.80m N-S by 3.15m E-W. **Height:** c.2.80m

Description: A chamber on the first floor of the south-east tower. It is accessed via a mural stair passage leading from doorway D21, located towards the east end of the south wall of the upper hall (MB3), beneath the former gallery (MB4). This doorway is chamfered to the north face and rebated to the south, and was formerly fitted with a door hinged on the west side; an adjacent shallow angled inset to the passage's west wall allowed the door to open. After passing through the doorway, the passage returns to the east, to run straight for c.2m. The floor of the passage is now formed by exposed core, but there must formerly have been a number of steps leading downwards to the east, of which only two survive. The ceiling of the passage is formed by a number of flagstones laid across the width and stepped downwards from west to east. At the east end of the passage, there is small 'landing' area adjacent to another doorway (D39). From here, one can either enter the chamber itself or ascend south along another stepped mural stair passage to the garderobe (G4) which served the chamber.

The base of the garderobe passage rises in five steps to the garderobe proper, while the ceiling above is formed by sloping flagstones laid across the passage. The garderobe itself measures 0.95m N-S by 1.45m E-W. The raised seat and the chute are located against the west wall; the seat has been largely destroyed, although the square chute can still be seen. The external base of the chute is now buried beneath the exterior ground level. The garderobe is lit by a narrow window (W81) in the south-west angle, now partly destroyed, perhaps by the removal of the barred grille, and has a small wall cupboard adjacent in the south wall. Immediately in front of the former seat, a stone sink is set into the floor, the only example of such surviving within the castle, although there is no external spout to drain it.

The doorway (D39) to the chamber itself once had a door, hinged on the north side and closing against its west face, rather than within the chamber as might be expected. The flat lintel of the door has a sub-rectangular relieving piece over, as seen in many other places throughout the castle. The chamber is lit by a single window (W4) in the east wall. This single-light window is set within a relatively narrow window opening with a shouldered head and sides splaying outwards towards the chamber; the base of the opening is stepped upwards towards the window. The window itself is very narrow, being only 0.10m wide, and this is probably why it does not appear to have been fitted with an iron grille, although there was formerly an internal shutter hinged to the south side.

The chamber also contains a fireplace (FP12) with a flat stone lintel, at the west end of the south wall, with wall cupboards at the east end of the south wall and in the north-east corner of the room.

The chamber was formerly crossed by a north-south aligned beam, with five (and probably originally) seven joists running to the west and a similar number to the east, although the evidence for the latter has been destroyed [1].

Elements: *Doors:* Two. D21 (from upper hall into passage) - 0.70w x 1.80h; D39 (entrance into chamber) - 0.60w x 2.15h.

Windows: Two. W4 (E wall) - light 0.10w x 1.00h, opening 1.00w x 2.20h; W81 (SW corner of garderobe) - destroyed.

Fireplaces: One. FP12 (S side of chamber) - 1.05w x 0.55d x 0.65h.

Cupboards: Three. S wall of chamber - 0.85w x 0.65d x 0.80h; NE corner of chamber - 1.05w x 0.75d x 1.00h; S wall of garderobe - 0.45w x 0.40d x 0.50h.

Garderobes: One. G4 - 0.95 N-S x 1.45 E-W.

Other: One sink in floor of garderobe (no drain).

Masons' marks: One in chamber, six in garderobe.

Comments: The purpose of the sink set into the floor of the garderobe appears to be to catch any urine which missed the chute and to stop it running back down the passage into the chamber. The arrangement of the passages and doorways here suggests that the garderobe was not solely for the private use of the occupants of the chamber, but also served the upper hall; by opening or closing the doors here, the circulation plan through this part of the building could be changed.

Plan level: 4 **Elevations:** 8-10 (external), 39-42 (internal)

Photos b/w: 12/11-15, 12/17-18; 13/1-2; 22/16-18.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: SET3 (chamber and garderobe) **Location:** Second floor of south-east tower

Internal Dimensions: 4.25m N-S by 3.25m E-W. **Height:** c.3.00m

Description: A chamber on the second floor of the south-east tower. It is accessed via the main newel stair at the south-east corner of the upper hall (MB3). A window W3 set within a 1.05m wide rectangular recess or lobby opens off the east side of the newel stair. On the south side of the lobby there is a doorway (D40) which gives entry into the chamber itself. This doorway is chamfered to the north face and rebated to the south, and was formerly fitted with a door hinged on the east side. The doorway opens into another small lobby measuring 0.5m N-S by 0.75m E-W, which is equipped with a stone sink on the east wall set into a small recess 0.7m above floor level and draining to an external spout (S1) through the east wall.

The north-west corner of the chamber has completely collapsed, removing any evidence for features that might formerly have been present here. The chamber is lit by two windows, W2 in the east wall and W85 in the south wall. The east window (W2) is set within a rectangular window opening with a shouldered head and joggled lintel over. The base of the window opening is set 0.60m above the former internal floor and appears to have been relatively flat. The window itself was formerly fitted with an external grille, formed by two cross-bars and a single vertical standard, socketed into the frame, and there was an internal shutter hinged to the north side. The south window (W85) is also placed within a rectangular window opening, although this has only a plain flat head and unlike W2, the sides are unevenly splayed rather than running at a right angle to the wall face. However, the window was formerly equipped with a similar iron grille, formed by two cross-bars and a single vertical standard socketed into the frame, and had an internal shutter hinged to the east side. There is a wall cupboard adjacent to window W85 in the south-east corner of the chamber, and also a fireplace (FP14) with a flat stone lintel to the south wall. The ceiling of the chamber was apparently formed by an east-west aligned beam. There is no evidence for joists running north and south from this, although the east wall retains a horizontal scar apparently left by the fitting of floorboards to the chamber SET4 above.

The chamber was provided with an en suite garderobe G6, accessed via a small lobby at its south-west corner. This has now largely collapsed, with a void where the floor used to be. A doorway (D47) led off the north side of the lobby into the garderobe. This doorway is chamfered to the south face and rebated to the north; a door must once have been present here, as a shallow recess in the east wall of the garderobe allowed it to open. The garderobe itself measures 1.30m N-S by 1.80m E-W, and has a floor made up of exposed core. The ceiling over is formed by neatly cut slabs which fan out across the ceiling from the south-west corner of the garderobe passage, the only example of such construction noted within the castle. The remains of the garderobe's raised seat and the chute are set against the south wall, although the former has been almost completely destroyed. The garderobe was formerly lit by a small window (W78) in the south wall, although this too has been partly removed [1].

Elements: *Doors:* Two. D40 (into chamber from lobby and main stair) - 0.60w x 1.70h; D47 (entrance into garderobe) - 0.50w x 1.80h.

Windows: Four. W2 (E wall) - light 0.45w x 0.90h, opening 0.80w x 1.45h, recess 1.40w x 0.85d x 1.80h; W3 (lobby from stairs) - light 0.15w x 0.90h, opening 0.55w x 1.35h, recess 1.05w x 0.60d x 2.20h; W78 (garderobe) - light 0.20w x 0.60h, opening 0.40w x 0.65h; W85 (S wall) - light 0.30w x 0.90h, opening 1.05w x 1.80h.

Fireplaces: One. FP14 (S side of chamber) - 1.00w x 0.55d x 0.85h.

Cupboards: One. SE corner of chamber - 0.90w x 0.70d x 0.75h.

Garderobes: One. G6 - 1.30 N-S x 1.80 E-W.

Other: Sink in lobby, draining externally east to S1.

Masons' marks: Three in chamber, 37 in garderobe.

Comments:

Plan level: 5 **Elevations:** 8-10 (external), 39-42 (internal)

Photos b/w: 11/2; 16/7, 16/14, 16/16-18; 22/2, 22/4-5, 22/7-8, 22/10; 30/14-15, 30/17.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: SET4 (chamber and garderobe) **Location:** Third floor of south-east tower

Internal Dimensions: 4.50m N-S by 3.50m E-W. **Height:** 3.50m

Description: A chamber on the third floor of the south-east tower. It appears that it must have been accessed from the main newel stair, although later collapse has removed any relevant structural evidence. The chamber is lit by two windows, W1 in the east wall and W84 in the south wall. The east window (W1) is set within a tall rectangular window opening with a shallow arched head built from three pieces of stone. The base of the window opening is set 0.30m above the former internal floor and appears to have been relatively flat. The single-light window itself was formerly fitted with an external grille, formed by at least a single vertical standard, socketed into the frame, and there was an internal shutter hinged to the north side. In the face of the east wall of the chamber, there is a shallow socket to the immediate north of the head of the window opening, and two vertically aligned similar features to the immediate south of the opening's south side. The south window (W84) is also placed within a rectangular window opening with a broad arched head, although this is formed from only two pieces of stone. The base of the window opening was set at a similar height to that of W1 and it also seems to have been flat. The single-light window itself was formerly equipped with an iron grille, formed by two cross-bars and a single vertical standard socketed into the frame, and had an internal shutter hinged to the west side. As around the east window W1, there are shallow sockets to the east and west of the window opening; three form a row at 2.00m above the former internal floor level, with others at 1.00m.

There is a fireplace (FP16) with a flat stone lintel to the west of the window in the south wall, with wooden plugs to the east and in the centre of the lintel. There are also wooden plugs around the doorway (D50) in the west wall (see below); taken together, all of these features indicate that the interior of the chamber was once panelled. There is a wall cupboard adjacent to window W1 in the south-east corner of the chamber, with another recess to the north-east corner; at c.1.80m high, this is tall enough to stand in.

The chamber was formerly crossed by an east-west aligned beam; the joists appear to have been lodged on an inset at the top of the chamber's south wall, whilst the north wall has collapsed. A horizontal along the top of the west wall may indicate the former position of floorboards supported by the joists.

The chamber was provided with an en suite garderobe (G8), accessed via a doorway (D50) at the north end of the chamber's west wall. This doorway is chamfered to the east face and rebated to the west; a door must once have been present to the west, although no evidence for its former presence survives. The doorway leads into a short passage which returns first to the south and then to the west, so that the garderobe has a dog-leg plan form; the main E-W part of the passage is 2.2m long. The base of the passage is now formed largely by core, although there were formerly steps rising from doorway D50 to the garderobe itself. The ceiling is formed by slabs laid across the width of the passage.

The garderobe itself measures 0.95m N-S by 1.70m E-W. The remains of the raised seat and chute are located at the far west end; the seat has largely been removed, although the chute survives. The garderobe has a sub-rectangular plan, and was lit by a small single-light window W75 in the south wall, which had a stone sink and external spout (S22) positioned beneath it; it was formerly fitted with a shutter, hinged to the east side. A blocked window, or changed window position, can be seen externally to the west of window W75, but it is not visible internally. Within the garderobe, there is also a small cupboard in the wall opposite the seat, perhaps formerly housing a light [1].

Elements: *Doors:* One surviving. Door into chamber from main stair gone; D50 (entrance into garderobe) - 0.60w x 1.80h.

Windows: Three. W1 (E wall) - light 0.30w x 0.90h, opening 0.60w x 0.85h, recess 1.45w x 0.70d x 2.20h; W75 (garderobe) - light 0.10w x 0.65h, opening 0.45w x 0.75h; W84 (S wall) - light 0.30w x 0.90h, opening 0.60w x 1.45d, recess 0.75w x 0.90d x 2.20h.

Fireplaces: One. FP16 (S side of chamber) - 0.95w x 0.60d x 0.80h.

Cupboards: Two. E wall of chamber - 0.90w x 0.65d x 1.25h; E wall of garderobe - 0.30w x 0.25d x 0.35h.

Garderobes: One. G8 - 0.95 N-S x 1.70 E-W.

Other: Full height recess in NE corner - 1.20w x 0.85d x c.1.80h.

Masons' marks: 19 in chamber, 46 in garderobe.

Comments: The chamber is the only room in the tower which preserves evidence for panelling. Full height recess in NE corner of chamber.

Harewood Castle: Room Descriptions

Plan level: 6 **Elevations:** 8-10 (external), 39-42 (internal)

Photos b/w: 12/8; 16/6, 16/16-18; 22/11-14; 23/2, 23/4-8, 23/10, 23/12-13, 23/16-18; 30/8-9, 30/11-12.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: SET5 (chamber and garderobe) **Location:** Fourth floor of south-east tower

Internal Dimensions: 4.90m N-S by 3.50m E-W. **Height:** c.3.60m

Description: A chamber on the fourth floor of the south-east tower. It appears that the chamber must have been accessed from a wall-walk running along the east side of the upper hall (MB3), although the north-west corner of the chamber has collapsed, thus removing any relevant structural evidence. The chamber is lit by two windows, W83 in the south wall and W82 in the west wall. The south window (W83) is set within a rectangular window opening with a shouldered head, with the apparently flat base set c.0.20m above the former internal floor level. The single-light window itself was formerly equipped with an external grille formed by two cross-bars and a single vertical standard, socketed into the frame, and an internal shutter hinged to the west side. The window opening is flanked by a wall cupboard to the east, at the south-east corner of the room, and there is a fireplace (FP4) with a flat stone lintel at the north end of the east wall.

The overall form of the west window W82 is similar. It is also placed within a rectangular window opening with a shouldered head. The base of the opening is set c.0.20m above the former internal floor level and appears to have been flat. The single-light window was formerly equipped with an external grille formed by two cross-bars and a single vertical standard, socketed into the frame, and an internal shutter hinged to the south side. However, this window differs from the other in that it has a two substantial corbel tables over the window and an adjacent lobby, separated by a single ashlar course (see below). The lower corbel table is formed by three curved corbels, projecting from the wall face flush with the window opening, and set c.3.20m above the former internal floor level. The upper corbel table is formed by three curved corbels, projecting from the main west wall of the chamber and set c.3.60m above the former internal floor level; the northern corbel of this table is slightly larger than the other three and set one course of stonework lower.

In the south wall, there are sockets or recesses set at either end of the wall at c.3.50m above the former internal floor level. However, in the east wall, there are two widely spaced projecting corbels, set at about the same height above the internal floor level but with no clear relationship to the recesses; there are also no similarly placed corbels to the west wall. It is assumed that the chamber had a shallow pitched roof over, perhaps supported by a pair of north-south aligned roof trusses, although the structural evidence is not clear.

The chamber was provided with an en suite garderobe (G10), accessed via the lobby immediately to the north of window W82 in the west wall. This lobby measures 0.70m square and has a doorway (D54) in its north side; the doorway is chamfered to the south face and rebated to the north, and was formerly fitted with a door hinged to the east side. The doorway leads into a 4.00m long east-west aligned passage, the walls of which taper inwards towards the western end. The base of the passage is now formed entirely by core, with a ceiling of slabs laid across the width. There is a sink and spout (S33) set within a splayed recess at the east end of the north wall. At its west end, the passage returns to the south to form the garderobe proper, which measures almost 1.10m square. The remains of the raised seat and chute are located at the south end of the garderobe, which was lit by a small single-light window (W74) in the south wall, formerly fitted with an internal shutter hinged to the east side [1].

Elements: *Doors:* One surviving. D54 (entrance into garderobe passage) - 0.55w x 1.80h.

Windows: Three. W74 (garderobe) - light 0.1w x 0.75h, opening 0.70w x 1.10h; W82 (W wall of chamber) - light 0.25w x 0.80h, opening 0.70w x 1.40h, recess 1.15w x 0.40d x 2.35h; W83 (S wall of chamber) - light 0.35w x 0.90h, opening 0.70w x 1.10h, recess 1.25w x 0.40d x 2.60h.

Fireplaces: One. FP4 (E side of chamber) - 1.20w x 0.55d x 0.90h.

Cupboards: One. SE corner of chamber - 1.00w x 0.50d x max 1.15h.

Garderobes: One. G10 - 1.10 N-S x 1.05 E-W.

Other: Sink in corner of garderobe passage draining north to S33.

Masons' marks: 39 in chamber, 33 in garderobe.

Comments: Access into chamber from east wall-walk now gone.

Plan level: 7 **Elevations:** 8-10 (external), 39-42 (internal)

Photos b/w: 15/18; 16/5; 21/4-8, 21/13-14, 21/16-18; 22/1; 23/1; 30/1-3, 30/5-7.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: SET6 (turret room)

Location: Lower level of south-east turret

Internal Dimensions: 1.00m N-S by 1.75m E-W.

Height: n/a

Description: The lower level of the south-east turret over the south-east tower. The turret has largely collapsed, with only the east and south walls surviving to any degree. Like the comparable room in the south-west turret (SWT6), the south-east turret must have been reached via the uppermost south side of the castle, itself reached by the stairs rising above the south end of the upper hall (MB3), although the exact route is now no longer apparent.

The interior of the turret was accessed via a rather narrow doorway (D55) in the west wall, rebated to the west face but with no surviving evidence for a door. The interior of the turret is lit by cruciform arrow loops in the south and east walls. There is stone sink/spout (S25) set beneath the floor of the turret but it was not draining the turret itself, rather the south side of the roof over the uppermost chamber SET5 of the tower [1].

Elements: *Doors:* One surviving. D55 (entrance into room) c.0.30w x height destroyed.

Windows: None.

Fireplaces: None.

Cupboards: None.

Garderoles: None.

Other: Two cruciform arrow loops in south and east walls.

Masons' marks: None surviving.

Comments:

Plan level: 8

Elevations: 8-9 (external), 39-42 (internal)

Photos b/w: 1/2; 7/11-13; 15/14, 15/16; 20/18; 21/1-2.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: SET7 (turret room)

Location: Upper level of south-east turret

Internal Dimensions: n/a

Height: n/a

Description: The upper level of the south-east turret over the south-east tower. This level has completely collapsed, and the only evidence for its existence are the remains of stairs rising up the east wall of the south-east tower, similar to those surviving to the south-west tower (SWT7) [1].

Elements: *Doors:* None surviving.

Windows: None surviving.

Fireplaces: None.

Cupboards: None.

Garderoles: None.

Other:

Masons' marks: None surviving.

Comments:

Plan level: 8

Elevations: 8-9 (external), 39-42 (internal)

Photos b/w: 7/11-13; 15/14, 15/16; 20/18; 21/1-2.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: MB1 (cellar or store)

Location: Below north end of lower hall MB2

Internal Dimensions: At least 5m N-S by c.8.20m E-W. **Height:** n/a

Description: A store, located beneath the north end of the lower hall (MB2). The only access to the store appears to have been through a doorway (D17) at the northern end of the lower hall's west wall. This doorway gave access to a tight dog-leg passage, winding around to the east; most of the steps to the upper part have been removed, but several survive to the lower visible part. These then disappear beneath the soil and rubble infill of the store, but appear to be placed with a passage c.0.90m wide.

The stair passage must have entered the west side of the store via a doorway (D59). Due to the rubble and soil infill, it is now difficult to assess the full extent of the store. The east-west dimension can be gauged from the exposed upper part of the north wall, which gives a measurement of 8.20m. The north-south measurement is less certain. The exposed upper part of the east wall has a shallowly projecting block set 6.45m south of the store's north wall. The north face of this block is dressed, while to the south, only core is visible projecting from the base of the lower hall's (MB2) east wall. No similar projecting block is visible at the base of the lower hall's MB2 west wall, where there is again only projecting core. The block might mark the position of the store's south wall; given that only a single window (see below) lighting the interior can be identified, and that this is located at the store's north-east corner, it seems unlikely that the space extended beneath the full length of the hall. Alternatively, the projecting block might mark an internal division within the store; it is noticeable that the ground surface within the lower hall (MB2) begins to slope markedly downwards towards the store from a partially surviving east-west line of stones set c.6.20m north of its south wall. These have previously been suggested to mark the edge of the dias at the hall's upper end, but they might equally mark the southern limit of the store below; this would give an approximate N-S length of 10.30m.

Only a single window (W21) can be identified that lights the store. It is set at the extreme north-east corner and is placed rather awkwardly at the junction of the north-east tower and north block of the castle. The window opening is 1.40m wide to the store but narrows markedly towards the damaged window itself, which was probably only some 0.20m wide to the exterior of the castle. The unevenly splayed walls of the opening are crossed by a flagstone ceiling, supported on chamfered corbels running along the top of the walls and stepping down twice to the window.

There was formerly a small extension or walk-in space on the east side of the store, set beneath the entrance passage NET1 of the north-east tower. It was accessed via short angled passage leading off the east side of the store, with a doorway (D61) at the east end fitted with a door hinged on the south side; at 1.40m wide, the doorway is somewhat wider than many of the other doorways in the castle used to access passages or chambers. The space reached through the doorway was rather small, measuring perhaps 1.50m E-W by 1.30m N-S, with the eastern limit marked by a stone projecting from the north side. To the west of this stone, the walls of the chamber are dressed but to the east, even though the wall lines may appear to continue, the wall 'face' appears to be exposed core. On the north side, there appears to be the remains of a small splayed opening, which could have been a window, although it would have had to run through the full 2.30m width of the wall here and would have been very narrow externally - it is not visible externally, but may be either buried below ground level and/or perhaps was blocked at a later date.

The main chamber was crossed by a substantial north-south aligned beam, which is another reason to believe that it was of shorter rather than greater length. Joists ran east and west from the beam; a single joist socket survives to the east wall. A projecting stone in the north-west corner of the store, just visible above ground level, may be the remains of a ledge or inset along the west wall. If this was the case, then the joists running to the west of the beam may have rested upon this, rather than being set into sockets [1].

Elements: *Doors:* Two. D59 (entrance from upper hall) - 0.90w x partly destroyed; D61 (entrance into space under north-east tower) - 1.40w x height not visible.

Windows: One. W21 (in NE corner) - light destroyed, c.0.2m wide, opening 1.40w x at least 0.90h.

Fireplaces: None.

Cupboards: None.

Garderoles: None.

Other:

Masons' marks: None.

Harewood Castle: Room Descriptions

Comments: The separate space off north-east corner may be associated with the operation of a drawbridge.
The main space may have originally functioned as an ale cellar.

Plan level: 1 **Elevations:** 19, 21-22 (internal)

Photos b/w:

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: MB2 (lower hall)

Location: The lower hall, middle block of castle

Internal Dimensions: 16.60m N-S by 8.90m E-W.

Height: 6.50m

Description: The lower hall, in the middle block of the castle. The principal entrance to the lower hall, and indeed to the castle itself, was through doorway D5, at the north-east corner of the hall. To the hall, the doorway D5 probably once had a two-centred arched head, although this has completely collapsed. It gave access to the east end of a screens passage, located at the north or lower end of the hall. The screen has long since been removed, although its position is marked by low level slots or recesses to the immediate south of doorway D5 at its east end, and doorway D10 at its west end. These slots are not exactly opposed, and so the screen was either set at a shallow angle (which seems unlikely), or it incorporated a step somewhere along its length. The doorway D10 at the west end of the passage lead through into the base of the north-west tower (NWT1); the springing for an arch is just visible to the north of the doorway. It may relate to the rear-arch of the doorway visible from within the base of the north-west tower NWT1, or alternately might represent a change in design on the part of the builders. A third doorway (D11), positioned midway along the screens passage's north side, gave access to the service areas in the castle's north block. This doorway has a two-centred arched head, moulded to the passage side, with a wall cupboard to the east. There is a single socket in the wall to the west of the doorway, placed c.2.50m above floor level, while the doorway itself is flanked by small circular scars placed approximately half-way up its height, suggestive of a fitting or other item having been removed. Finally, a fourth doorway (D12) with a flat lintel is placed at the east end of the screens passage's north side; this gives access to the base of the lesser newel staircase.

Turning to the lower hall itself, although the former floor level can be discerned through scarring on the east and west walls, all traces of any surface have been removed. The ground surface is now formed by compacted rubble and soil, rising gently from north to south, partly infilling a former store (MB1) set beneath the north end of the hall. This space was accessed via a doorway (D17) towards the north end of the hall's west wall, which lead down into a staircase. The doorway has now partly collapsed or been deliberately removed, but enough remains to indicate its general form. It has a shouldered head, chamfered to the east (hall) face and rebated to the west face.

There were stone benches running along the east and west sides of the hall, which survive in part. On the east wall, the top of the bench was set c.0.55m above the former internal floor level. The lip of the bench still projects slightly but is quite badly damaged and it is now difficult to assess its former profile. The stone bench can be traced almost as far north as the entrance doorway (D5), where it has a 'proper' end returning to the main wall face, and it probably ran almost as far south as doorway D14, although here it is marked mainly by a scar on the wall where it formerly sat. On the west wall, the top of the bench was set c.0.55m above floor level and again it is badly damaged, although in one place a slightly projecting section appears to preserve the original convex profile to the underside. This bench may have stepped up to the upper (south) end of the hall, as there is an area of scarring and adhering mortar here below the buffet (see below); at this point a shallow vertical scar rises up the wall face. Alternatively, the scarring here may relate to a slightly raised dias floor at the hall's upper end. To the north, the bench against the west wall can be traced as far north as window W57, where it has been broken off, leaving exposed core; however, it cannot have run much further north as it would have blocked the doorway (D17) to the store.

The hall was lit by four principal windows, W12 and W13 in the east wall, and W57 and W58 in the west wall. All of these windows are of similar form. The base of each window opening is set c.1m above the former internal floor level, and each had a broadly segmental rear-arch over, although that to window W57 has collapsed; the total height from the base to the underside of the rear arch for these windows is between 3.00m and 4.50m. Internally, the sides of the window openings are parallel, while the bases are stepped. These are better preserved in the windows in the west wall, particularly W58, and comprise a lowered central well containing two steps which rise upwards from east to west. These wells formed the access into the window from the hall floor; once in the window, there are a further two steps running around three sides of the window opening, the uppermost of which formed a bench with a chamfered profile to the underside of the lip. The windows themselves were all of mullioned and transomed form, and of four lights; the upper lights had fixed glazing, with external iron grilles comprising two cross-bars and two vertical standards socketed into the frame. The upper lights were rebated to the interior, to take a pair of internal shutters closing flush to the frame and probably secured with a bolt or latch to the rear when closed. The lower lights were not glazed but also fitted with similar internal shutters to the upper lights, also closing into rebates so that they were flush to the frame. Like the upper lights, the lower lights were equipped with external iron grilles socketed into the frame, comprising at least one cross-bar. In the east wall, window W13 once had a doorway (D15) leading to either a mural passage or large walk-in recess in its north side - this feature was lit by a small window W14 in its east side. However, whatever

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window W14 once lit was subsequently destroyed by the removal of a large section of wall core from this area, for reasons which remain unclear. The initials 'NW' are carved into the side of the window.

The upper end of the hall was located at the south end. It may once have been approached via a slightly raised dias; a line of part buried stones in the surface of the hall's soil infill, set c.6.20m north of its south wall, has previously been suggested to mark the edge of the dias but it might equally represent the southern limit of the store (MB1) below. The upper end of the hall was heated by a large fireplace (FP1) placed in the centre of the south wall. This fireplace is 2.75m wide and 1.40m deep, the largest in the castle outside the kitchen (NB2W). The head has collapsed or been removed, although the surviving parts suggest that it would originally have been provided with a flat lintel. The area to the west of the fireplace was originally lit by another window (W60) but this has been almost completely removed to make an opening to the exterior, and so its original form is uncertain; the broad curving rear arch of the window is set slightly higher than those of windows W57 and W58 to the north. Scarring to the north side of the enlarged opening may indicate that this window formerly had a stepped base like the others lighting the hall. The window originally had a doorway D13 in its south side leading to the lowest level of the south-west tower (SWT1).

To the north of the remains of window W60, an elaborately carved stone buffet remains virtually complete. The base of the buffet is formed by a slightly projecting moulded shelf, decorated with trailing greenery spewing forth from heads, possibly lions, at either end; if not lions, the heads are definitely of animal form rather than another form, such as a green man. The buffet opening is a shallow two-centred four-cusped arch; the spandrel of each cusp has a different decoration. Listed from south to north, these comprise a three leaves, an animal head spewing forth foliage from the mouth, a flower and finally another flower. Above the arch, there is a crocketed ogee hoodmould, surmounted by an elaborately moulded foliate finial, rising across the centre of the canopy. The hoodmould is framed by thin projecting strips, which rise towards the moulded canopy. The canopy comprises two separate horizontal strips. The lowest strip is a panel decorated with five-petalled flowers; at the extreme south end, a bird, perhaps a dove, pecks at one of the flowers. There is then a shallow moulded projection, above which the upper panel is decorated with cruciform arrow loops like those to the south-west and south-east turrets, below brattishing. Above the canopy, and at either end, there are two recesses, one of which has been blocked. These may have supported a projection above the buffet, perhaps a wooden canopy, or alternatively a frame for curtains which could be drawn back to reveal the buffet at the appropriate moment. The interior of the buffet is lit by a narrow barred window (W59) with a stepped base in the west wall. There is no scarring to the interior walls of the buffet to indicate fixed shelving, and so it is assumed that freestanding wooden shelving was once housed within or that it was fixed to an internal timber lining, now removed.

At the south-east corner of the upper end of the hall there is semi-circular headed doorway (D14), moulded to the west (hall) face and leading to the main newel stair which gives access to the upper hall (MB3) and also the chambers of the south-east tower. To the south of the doorway, in the south-east corner of the upper end of the hall, there is small wall cupboard, with adjacent scarring perhaps indicating the former position of a piece of fitted furniture. The scarring comprises a missing or damaged stone immediately beneath the cupboard, with a shallow scar running 0.50m horizontally north from the base of the cupboard's north side. Below this horizontal scar, there is a shallow rectangular scar, perhaps a socket, and to the north and above, two similar conjoined features that again may have been caused by the removal of a fitting.

The lower hall was once crossed by four very substantial floor beams, supported on cyma moulded corbels at either end. It is noticeable that alternate corbels only survive to either side of the hall, the opposite number of each pair having been either smashed off or removed. This was most probably done during the 17th century in order to remove the floor beams in one piece, rather than saw them up into smaller lengths and reduce their salvage value. The southernmost beam was set at a slightly lower level than the other three. A row of sockets for north-south aligned joists survives to the very top of the hall's south wall, at the level at which the wall face is inset; the joists sockets appear to fall away in height from the centre very slightly to either end. The height of the sockets in relation to the southernmost beam indicates that the joists were lodged across the beam, rather than tenoned into it. A further line of sockets holes also survives to the top of the hall's north wall, at the level at which the wall face is inset; the height of the sockets in relation to the northernmost beam indicates that joists were tenoned into the beam, and not lodged across it [1].

Elements: *Doors:* Eight. D5 (entrance into lower hall) - 1.70w x at least 2.50h; D10 (into base of NW tower) - 1.70w x 2.80h; D11 (into service wing) - 1.35w x 2.55h; D12 (access to lesser stairs) - 1.00w x 2.00h; D13 (into base of SW tower) - 0.75w x 1.60h; D14 (to main stairs) - 1.25w x 2.10h; D15 (to passage to NET2 from W13) - 0.95w x height not recorded; D17 (to basement store) - 0.90w x c.1.95h.

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Windows: Seven. W12 (E wall) - light 1.10w x 2.10h, opening 1.10w x 2.10h, recess 2.00w x 1.55d x 3.00m h; W13 (E wall) - light (inc transom) 1.10w x 2.10h, opening 1.10w x 2.10h, recess 1.95w x 1.55d x 2.90h; W14 (E wall) - light 0.25w x 0.70h, opening destroyed; W57 (W wall) - light 1.05w x c.2.10h, opening 1.05w x c.2.10h, recess 1.95w x 1.65d x c.4.00h; W58 (W wall) - light 1.05w x c.2.10 h, opening 1.05w x c.2.10h, recess 1.95w x 1.65d x c.4.00h ; W59 (W wall buffet) light 0.10w x 1.00h, opening 0.60w x 1.20h; W60 (W wall) - destroyed.

Fireplaces: One. FP1 (south wall) - 2.75w x 1.40d x c.4.00h.

Cupboards: Two. SE corner - 0.60w x 0.30d x 0.40h; N wall (screens passage) - 0.90w x 0.60d x 0.60h.

Garderoberes: None.

Other: Buffet recess 1.65w x 1.20d x max 1.60h

Masons' marks: One.

Comments: The stepped bases and benches around the four main windows (W12, W13, W57 and W58) would have provided additional areas in which people could be seated to observe activities in the lower hall.

Plan level: 2 **Elevations:** 6, 11 & 16 (external), 19-21 (internal)

Photos b/w: 3/13-15, 3/17-18; 4/1-3, 4/5, 4/7-9; 5/2-3, 5/5-7; 9/13-15, 9/17-18; 10/1-3; 20/1-2, 20/4, 20/6, 20/8, 20/10; 24/17; 29/13; 31/14, 31/18; 32/1-2, 32/4; 34/14; 35/5-8, 35/10.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

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Room number: MB3 (upper hall)

Location: The upper hall of the castle's middle block

Internal Dimensions: 17.10m N-S by 8.85m E-W.

Height: c.8.75m to internal roof apex

Description: The upper hall, in the middle block of the castle. The principal entrance to the upper hall was through a doorway (D16) near the south-east corner, which lead off the main newel stair. Only the north jamb of the doorway now survives. It was rebated to the west (hall) face, with a small recess surviving, perhaps for one end of a drawbar, and had a shallow segmental head. The east face (to the stair) was moulded and opened onto a small lobby or landing space off the main stair. This lobby was lit by a barred window (W9) to the east wall, formerly fitted with a shutter hinged to the north side. The north wall of the lobby preserves a small ogee arched wall recess or niche, the only example of such to survive within the castle.

The doorway (D16) opened beneath a raised balcony or gallery situated at the south end of the hall. This has been completely removed, although surviving structural evidence indicates that it was a wholly timber structure, projecting some 4.00m from the hall's south wall. The northern limit of the structure was supported on a substantial east-west aligned beam, set c.3.00m above the internal floor level and supported on corbels at either end, although only that to the west end now survives. Four equally substantial timbers, spaced at equal centres, ran between the beam and the south wall of the hall, and these in turn supported closely spaced east-west floor joists, the sockets of which survive in the west wall. There is a horizontal band of scarring to the south wall face immediately above the former joist level; the extent of the damage suggests that a flagstone rather than a board floor may have been removed. The gallery may have had timber posts set beneath the main beam to help support it, or perhaps even a partition, so that the south end of the hall was an entirely separate space.

Beneath the balcony/gallery area, there is a fireplace FP3 with a flat stone lintel placed in the centre of the south wall. It is flanked by a wall cupboard to the west and a doorway (D21) to the east. The doorway (see SET2 for description) gives access to mural passage leading to a chamber (SET2) in the south-east tower and also to a garderobe (G4).

The upper level of the gallery/balcony was lit by two windows, W76 and W77, in the south wall. These have been much altered at a later date to create two much wider openings. The window openings have shallow two-piece relieving arches over the flat heads and are 1.40m wide to the gallery. The sides run straight back for c.1.80m and then each opening is splayed inwards towards the window itself; the flagstone ceiling of window W76 indicates that the original window was only some 0.45m wide to the exterior. Window W76 may once have had a wall cupboard positioned in its west side, the lintel of which can still be seen with a relieving piece over. At a later date, this was partly cut through to create an access into a garderobe (G7) serving chamber SWT4 in the south-west tower. In the ceiling and floor of the opening for window W77, the chutes dropping from garderobes G10 (SET5) and G8 (SET4) above are still visible.

At c.2.20m up the window openings W76 and W77 (c.2.80m above the gallery floor), a line of recesses or sockets are visible crossing the south wall of the upper hall. The sockets run level between the window openings but then slope gently downwards towards either side of the gallery. The sockets are 0.20m high, 0.10m wide but rather shallow, averaging 0.05m in depth or sometimes slightly more, and appear to relate to a later alteration. The sockets continue around into the interior of the window openings (W76 and W77). They are visible along both the east and west sides of window W77; there are five to each side, rising gently from north to south, although they are not the same to both sides. To the west side, the sockets are 0.40m long, 0.10m high and also shallow. To the east side, the sockets are 0.10m long, 0.15m high and slightly deeper. Their form suggests that the timbers were placed in the east sockets and then slid into place along the west ones, again providing further evidence that they are a later alteration. There are similar recesses to the east side of window W76, one of which has partly destroyed a mason's mark, again suggesting that they are later insertions. There is a single shallow socket to the west side of the window. The purpose of the sockets is unclear; they may represent the remains of some sort of canopy installed over the gallery, or alternately may belong to a much later period and relate to the conversion of this space to another use.

As has been noted in regard to the lower hall (MB2), the easternmost of the four beams crossing the latter is set at a slightly lower level than the other three. The floor joists of the southern end of the upper hall were lodged across the beam, rather than being jointed into it. However, they may have been tenoned into the next beam to the north, at which point the floor appears to have stepped up slightly; if so, the floor of the northern half of the upper hall was set at a higher level than the southern half, perhaps denoting an upper end.

Moving out from beneath the balcony/gallery, the upper hall was originally lit by three principal windows, two (W53 and W54) in the west wall and one (W10) in the east wall, with a further smaller window (W56) at the south end of the west wall beneath the balcony/gallery. The latter has a broad segmental rear-arch and was originally provided with a wall cupboard to the north side and a doorway (D38) to the south, giving access to a mural passage leading to a chamber (SWT2) in the south-west tower. However, the window itself has been hacked out and

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enlarged; surviving structural evidence suggests that the window was originally deeply splayed and of a narrow single light. To the south of the window opening, there is a pentagonal area of reddening to the wall with an iron stain at its head; this might mark the position of an older fitting, or perhaps a more recent sign.

To the north, window W54 is better preserved, and of similar form to the principal windows lighting the lower hall (MB2 - W57 and W58). The base of the window opening is set c.0.60m above the former internal floor level, and it has a broadly segmental rear-arch over with shields (now blank) to the keystone and springers; the total height from the base to the apex of the arch is c.4.10m. Internally, the sides of the window opening are parallel, while the base is stepped. This has since been partly removed, but was probably of a similar form to those noted to the lower hall windows, with a stepped central wall forming the access into the window, with two further steps running around three sides of the window opening. These steps would have formed additional areas in which people could be seated to observe activities in the upper hall. The window itself was of mullioned and transomed form, and of four lights; the upper lights only had fixed glazing. However, all four lights were fitted with external iron grilles, comprising two cross-bars and a single vertical standard socketed into the frame. They are also all rebated to the interior, to allow for internal shutters to close flush with the frame. There is a wall cupboard in the north side of the window, while a doorway (D41) in the south side opens into a mural passage leading to a chamber (SWT3) in the south-west tower (see SWT3 for description). The northern principal window in the west elevation (W53) is assumed to have once been very similar to W54 but has been subject to considerable alteration. The base has been hacked out and lowered to the level of the internal floor, while the original parallel sides of the window opening have been cut back and partly rebuilt to a splayed form, increasing the width from 2.30m to over 3.30m. The rear arch was taken down and crudely rebuilt at a shallower angle. The window itself may have been removed and blocked up, although it is difficult to be certain as this area has itself subsequently either collapsed or been removed. Finally, a small square flue opening was made in the rebuilt head of this window opening, venting out through the wall-walk above along the west side of the upper hall roof. The combined evidence suggests that the window was converted into a fireplace, and is one of a number of alterations undertaken to the north end of the hall (see below), although it is not certain if they are all contemporary.

The principal window to the east wall (W10) is of very similar form to that described for W54 in the west wall above, and is indeed the best preserved of the upper hall windows; it is also provided with blank shields to the rear-arch. It has a wall cupboard to the south side and a doorway (D42) to the north side. This doorway is chamfered to the south face and rebated to the north, although no evidence for the former door fitting now survives. The doorway opens into a narrow and steeply ascending mural passage, formerly with steps although these have largely been removed apart from at the upper end, where it curves to the east to enter a chamber (NET4) above the chapel (NET3) in the north-east tower; the roof of the passage is stepped to the lower part and then with some sloping flagstones to the upper part. The passage formed the only original access point to chamber NET4 but a later date a second access had to be created by cutting a doorway in from the lesser newel stair at the castle's north-east corner. This was because the original access had been destroyed by the creation of a fireplace (FP2) to the north of window W10 in the upper hall's east wall.

The fireplace (FP2) is 1.85m wide and has parallel sides which then splay inwards towards the rear wall, which is of thinly coursed reddened stone, quite different to that used in any of the castle's original fireplaces. The fireplace flue was created by partly cutting through and partly crudely blocking the pre-existing mural passage to chamber NET4 over the chapel.

It is assumed that initially, in reverse to the arrangement of the lower hall, the upper end of the upper hall was placed to the north. However, here too there is evidence for further alteration. The entrance (D8) to the chapel (NET3) lies at the north end of the upper hall's east wall and is clearly an original feature of this area of the hall. It is 2.50m wide and has a broad segmental arch over, with three stone shields, that of Balliol to the keystone and Aldeburgh to either of the springers. The sides of the chapel opening are now badly but differentially weathered, and the surface of the stone has lifted off in many places. This may have created the impression that a screen was once placed across the chapel entrance, although this seems likely to have been the case.

The north wall of the upper hall is almost completely blank, although a close examination reveals many features of interest. There is a doorway positioned to either end of the wall, and both are chamfered to their south (hall) faces. The west doorway (D18) is rebated to the rear, and was once fitted with a door hinged to the east side. This doorway lead into a mural passage (see NWT2 for detailed description). This has been much altered, but originally provided the only access to chamber NWT2 in the north-west tower. The doorway is somewhat narrower than the east doorway and presents a slightly 'squeezed' appearance in relation to the west wall. There is a staggered joint in the adjacent wall face set c.1.20m to its east, and also a small surviving patch of render/lime wash. There is a similar staggered joint to the west of the east doorway (D19), which lines up almost exactly with a 2.20m high and 1.10m long slot in the short mural passage to which the doorway gives access. The masonry of the north side of the slot appears very fresh, as if it has never been exposed to the elements. In addition, to the

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immediate west of the doorway within the hall, there is a small recess at waist height which passes through the wall to the slot, with a shallow socket opposite in the slot's north side. The whole is suggestive of a sliding door, with a peg or bolt passing through the recess and across the slot to secure the door when it was retracted. It is difficult however to see how the mechanism of a sliding door would have functioned; for example, if there was a wooden runner for the base, how was the friction between it and the door overcome? It is also unclear why it should have been deemed necessary to fit a sliding door here when all others within the castle were simple hinged opening examples, although the passage is rather short and there was another door at the other end (D26 - see NB4), which might have made a second door difficult to manoeuvre. There is also a blocked vertical slot or recess to the immediate west of the east doorway's lintel in the north wall of the hall, while to the east, the north-east corner of the hall is angled and corbelled outward to accommodate the lesser newel stair.

An alternative explanation may be that the north wall of the upper hall has been extensively remodelled at some point, perhaps in several different phases. It is noticeable that, apart from the relatively small FP3 in the south wall, there is a lack of identifiable original fireplaces, both the fireplace in window W32 (west wall) and fireplace FP2 (east wall) being later insertions. Perhaps there was once a large fireplace in the centre of the north wall of the hall, akin to FP1 at the south end of the lower hall, but it was subsequently removed. Its removal entailed the rebuilding of the central section of the north wall, creating the staggered joints adjacent to doorways D18 and D19. The resulting area of rebuilding is completely blank, apart from three rows of sockets or recesses, set at 2.20m, 3.70m and 5.60m above the internal floor level; there are two further recesses placed immediately above the uppermost row. Within each row, the recesses are placed at c.1.10m centres, and are vertically aligned through all three rows. At first glance, these are suggestive of putlog holes, although such features are relatively rare in the castle, and the recesses are also rather shallow. It is unlikely that such a large expanse of wall in the upper hall would have been left completely blank and it is possible that the recesses might mark the position of a frame or other structure used to support a heavy decorative item such as a large tapestry. However, if there had been a large fireplace in the north wall, then an explanation would be required as to why it was necessary to create fireplaces in the east and west walls; the most logical reason for these would be that the upper hall was later divided into an inner and outer chamber. Might this have been done after a larger fireplace in the north wall had already been removed for some time, requiring the creation of new heating arrangements?

The roof space of the upper hall was once crossed by a pair of trusses, supported on sharply curved corbels. The trusses were spaced symmetrically between the edge of the gallery/balcony at the south end and the north wall. It is almost certain that the hall was not ceiled and so the trusses are likely to have been of reasonably decorative or elaborate form. The profile of the steeply pitched roof of the upper hall is preserved at either end, where an inset to the wall face marks its former line; the roof covering was presumably tucked under this inset. To the south wall, scars/sockets indicate that the principal rafters of the roof truss at this end of the hall supported three pairs of purlins. At the apex of the roof, there is a socket, apparently for a ridge piece, as it is set too high for the collar purlin of a crown post roof. Directly beneath, there is a long narrow slot for a ridge brace. The surviving arrangement at the north end is slightly different, with only a single purlin to each principal, although sockets for a ridge piece and ridge brace are visible as at the opposite end. The east slope also preserves a line of mortar immediately beneath the inset and running parallel to it; the use of mortar might suggest that the roof was tiled rather than leaded [1].

Elements: *Doors:* Eight. D8 (entrance into chapel) - 2.50w x c.3.60h; D16 (entrance from lobby and main stair) - incomplete, c.2.00w x c.2.90h; D18 (mural passage to NWT2) - 0.70w x 2.00h; D19 (sliding door to NB4) - 0.90w x 2.20h; D21 (to garderobe G4 & SET2) - 0.70w x 1.80h; D38 (mural passage to SWT2) - 0.55w x 1.80h; D41 (mural passage to SWT3) - 0.55w x 1.90h; D42 (mural passage to NET4) - 0.55w x height not recorded.

Windows: Seven. W9 (E wall in lobby) - 0.30w x 0.85h, opening 0.60w x height not recorded; W10 (E wall) - light (inc mullion & transom) 1.15w x 2.15h, 1.15w x 2.15h, recess 2.25w x 1.75d x 3.20h; W53 (W wall, later altered to fireplace) - destroyed; W54 (W wall) - light (inc mullion & transom) 1.15w x 2.10h, opening 1.15w x 2.10h, recess 2.30w x 1.80d x 4.00h; W56 (W wall, later altered) - light destroyed, opening 1.60w x 2.50h; W76 (S wall of MB4 gallery, later altered) - light destroyed, void 1.40w x 2.75h; W77 (S wall of gallery, later altered) - light destroyed, void 1.30w x 2.70h.

Fireplaces: Three. FP2 (E wall, later insertion) - 1.85w x 0.45d x 2.40h; FP3 (S wall) - 1.55w x 0.65d x 1.05h; another inserted into W53.

Cupboards: Four. W56 (N side) - 0.60w x 0.55d x height not recorded; W54 (N side) - 0.65w x 0.55d x height not recorded; W10 (S side) - 0.70w x 0.55d x 0.75h; S wall - 0.80w x 0.60d x 0.55h.

Garderobes: None.

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Other: Ogee arched wall niche in lobby, 0.30w x 0.30d x 0.40h.

Masons' marks: 13 in upper hall, 15 in mural passage to NET4.

Comments: Upper level gallery at south end of upper hall. Stepped bases to the three main windows (W10, W53 and W54). Sliding door to D19.

Plan level: 4 and 5 **Elevations:** 19-22 (internal), 6, 11 and 16 (external)

Photos b/w: 2/2-6, 2/8, 2/11-13; 3/1, 3/5, 3/8, 3/10; 4/9, 4/12-15, 4/17-18; 5/1, 5/8, 5/10-11, 5/15, 5/17-18; 6/1-3, 6/6; 8/3, 8/8-9, 8/15, 8/17-18; 9/1-2, 9/5-9; 10/5-9, 10/11-15, 10/17-18; 12/1-2, 12/4, 12/6; 16/8, 16/10-12; 18/1-2, 18/5-7, 18/16-17; 19/6-8, 19/10-11, 19/13-14, 19/16-17; 20/5, 20/7, 20/13-14, 20/16-17; 26/4; 27/14, 27/16; 28/13-14, 28/16-17; 29/4-8, 29/10-12; 31/2-3, 31/5-8, 31/13; 32/11; 35/18; 36/1, 36/14-15; 60/4-6; 64/10

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

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Room number: NWT1 (chamber)

Location: Lowest level of north-west tower

Internal Dimensions: Max 4.50m E-W by 3.00m N-S.

Height: c.4.35m

Description: The lowest chamber within the north-west tower. It is accessed from a doorway (D10) at the west end of the screens passage at the lower north end of the lower hall (MB2). The chamfered doorway has a two-centred arched head, with a semi-circular rear-arch to the chamber. Within the chamber, the north jamb of the doorway is rebated to the west face but the south jamb is splayed outwards towards a wall cupboard at the south-west corner of the chamber; two vertically aligned recesses to the east interior face of the cupboard suggest that it may once have been fitted with shelves or provided with a closing door.

The chamber is lit by a single window W46, placed at a high level in the west wall; the base of the window opening is set c.2.30m above the former internal floor level. The opening is unevenly splayed, and the single light window is placed towards the south side. The window appears to have had fixed glazing and an internal shutter, hinged to the north side, and was equipped with an external iron grille comprising two cross-bars and a single vertical standard socketed into the frame.

The north side of the chamber is now completely open, primarily as a result of demolition and alteration. However, the surviving structural evidence indicates that there was formerly an opening here leading into the kitchen (NB2W), perhaps provided with a flat or very shallowly arched head, supported on the surviving corbels at either end; the head of the opening was c.3m wide and c.0.65m deep. Beyond (to the north of the corbels), the west wall of the opening has a slightly inset panel 1.20m wide and 2.30m tall; damage to the south side of the panel shows that a door (D62) was once present here, hinged to its west side and opening into the panel. By contrast, the lower c.1m of the east wall of the opening is formed by projecting rubble core; above, the wall splays outward towards its north end. The combined structural evidence suggests that there was a dresser hatch positioned here, linking the chamber to the kitchen (NB2W), and providing the route by which food reached the lower hall. The east side of the opening housed the hatch, which had a low stone shelf upon which items were placed, and could be closed by a shutter mounted on the east wall. The shelf did not cross the full width of the opening, but had a doorway at its west end to allow the passage of people.

There is a shouldered doorway (D22) in the west wall of the chamber, opening into a north-south aligned mural passage leading down to a basement room (NB1W). The doorway is chamfered to the east (chamber) face and rebated to the west (passage); there was formerly a door here hinged to the east side, as evidence by the angled south wall of the passage beyond. The passage is 0.80m wide but it is not straight, nor does it run exactly parallel to the outer face of the castle's west side. Approximately 3.10m to the north of its south end, the passage kinks slightly to the west and there may be a joint in the masonry of the east wall here. The upper south end of the passage is lit by a small splayed single light window (W47) in the west wall. The stone stairs are well preserved and steeply inclined, while the ceiling over is formed by flagstones placed across the width of the passage, stepped downwards from south to north. At its base, the passage is lit by another window (W49), also located in the west wall (see NB1W for description).

The ceiling of the chamber was formed by five substantial and closely spaced east-west aligned joists, the sockets for which can still be seen in the east wall. There is a linear band of core in the west wall at the height where the opposing sockets should be, while in the north wall, a shallow horizontal scar marks the former position of the floorboards of the chamber NWT2 above [1].

Elements: *Doors:* Two surviving. D10 (from screens passage into chamber) - 1.70w x 2.80h; D22 (mural passage to NB1W) - 0.90w x 1.90h; D62 (to NB2W) now destroyed.

Windows: Two. W46 (W wall) - light 0.35w x 0.90h, opening 1.20w x 1.50h; W47 (for mural passage) - light 0.10w x 0.45h, opening 0.55w x 0.45h.

Fireplaces: None.

Cupboards: One. S wall of chamber - 1.20w x 0.55d x 1.15h.

Garderoles: None.

Other: Dresser hatch in N wall c.3m wide x c.0.65m deep.

Masons' marks: One in chamber, one in mural passage to NB1W.

Comments: This chamber is described as a 'kitchen lobby' by Emery and as a 'servery' by Brears.

Plan level: 2

Elevations: 31-34 (internal), 17-18 (external)

Photos b/w: 55/4-6.

Harewood Castle: Room Descriptions

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: NWT2 (chamber)

Location: First floor of north-west tower

Internal Dimensions: 3.00m N-S by 2.20m E-W.

Height: c.3.40m

Description: A chamber on the first floor of the north-west tower. The only original access to the chamber was via a mural stair passage, reached from a doorway (D18) at the north-west corner of the upper hall (MB3). Beyond the doorway, the passage returns to the west and descends steeply down five surviving steps of a probable original ten or eleven; the ceiling over is of sloping flagstones laid across the passage. At the west end of the passage's south wall is the original doorway (D33) into the chamber. This is chamfered to the north (passage) face, rebated to the south and was formerly fitted with a door hinged to the west side. At a later date, three more openings were cut into the passage, although they may not all be contemporary. Firstly, at the very west end, a doorway (D3) was cut through the external wall, and was reached via a flight of covered external wooden stairs. This doorway was crudely rebated to the external face and had a semi-circular head, the latter a common feature of inserted doorways throughout the castle. The external stairs have now completely gone, although extensive scarring remains around the doorway to the wall face. Secondly, a doorway (D23) was cut through from chamber NB3 in the north block, at the west end of the passage's north wall. Thirdly, a crude doorway opening (D34) with a semi-circular head was cut through the south wall at the upper east end of the passage to give access to the chamber above (NWT3); this may have destroyed a wall cupboard within the chamber, as there are a few dressed stones left in the head of the inserted doorway.

The original doorway (D33) opened into the north side of a rectangular window opening housing one of the two windows lighting the chamber. The window opening (W43) has a semi-circular rear arch and parallel sides, with the base set at internal floor level. The single-light window is set to the south of centre, and was formerly fitted with an internal shutter hinged to the south side; it was also equipped with an iron grille comprising three cross-bars and a single vertical standard socketed into the frame. The window to the south wall (W52) was also housed within a rectangular window opening with the base at internal floor level. However, the sides of the opening are unevenly splayed in plan and the head is shouldered; it is supported on two levels of curved corbels to the east side and a single similar corbel to the west. The corbels to the east side incorporate joggled joints, very neatly cut. The single-light window was formerly fitted with an internal shutter hinged to the west, and was also equipped with an iron grille comprising three cross-bars and a single vertical standard socketed into the frame. There is a wall cupboard to the west of the window.

The chamber was formerly crossed by six closely spaced east-west aligned joists, the sockets of which are still visible in the east and west walls. A shallow horizontal scar at a similar height in the north and south walls may mark the former position of floorboards in the chamber NWT3 above. There are no garderobes, sinks or fireplaces within the chamber [1].

Elements: *Doors:* Four. D3 (later insertion to provide external access) - 0.60w x 1.45h; D23 (later insertion to connect with NB3) - 0.60w x 1.75h; D33 (original entrance into chamber via passage) - 0.70w x 1.80h; D34 (later insertion to connect with NWT3) - 0.60w x 1.70h.

Windows: Two. W43 (W wall) - light 0.45w x 1.25h, opening 1.00w x 1.50h, recess 1.95w x 1.80d x c.2.40h; W52 (S wall) - light 0.45w x 1.20h, opening 1.10w x c.2.20h.

Fireplaces: None.

Cupboards: One. W side of W52 - 1.10w x 0.70d x 1.95h.

Garderobes: None.

Other:

Masons' marks: Three in chamber, 13 in mural passage from MB3.

Comments:

Plan level: 3 **Elevations:** 31-34 (internal), 17-18 (external)

Photos b/w: 3/7; 29/2; 42/1-2; 54/5-7, 54/13-14, 54/16.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: NWT3 (chamber)

Location: Second floor of the north-west tower

Internal Dimensions: c.3m N-S by 2.20m E-W.

Height: c.3.20m

Description: A chamber on the second floor of the north-west tower. The only original access to the chamber was via a short mural passage leading from the chamber (NB4) on the upper floor of the north block. The passage doorways (D24 and D44), at the north and south ends, were fitted with doors hinged to the east and west sides respectively. The passage has a ceiling of flagstones laid across it and is one of the very few areas within the castle to preserve any evidence of an early floor covering, here formed by a smoothed lime mortar. At a later date, another doorway (D34) was crudely hacked through into the north-east corner of the chamber from the mural passage accessed via doorway D18 at the north-west corner of the upper hall (MB3).

The chamber was lit by windows in the west and south walls. The west window (W41) is well preserved and situated within a rectangular window opening. The base of the opening is set just above the internal floor level and it has a shouldered head, supported on two levels of curved corbels; the corbels to the east side incorporate joggled joints, very neatly cut. The single-light window was formerly fitted with an internal shutter, hinged to the south side and fastened to the north. The south window (W41) has been almost completely destroyed, leaving a large area of exposed core. Only a small fragment of the west window jamb remains, which is rather crudely chamfered into the stonework here, perhaps suggesting that the original window was somehow modified prior to being destroyed. The remains of a wall cupboard are also visible to the east wall.

At the southern end of the west wall there is a doorway (D43) giving access to a mural stair passage. The west (passage) face of the doorway is rebated and although no evidence for the door hinges survive, it must have been hinged to the south side, as a quarter circle recess to allow for the swing is incorporated into the passage floor. The ceiling over the passage is formed by flagstones laid across its width, stepped upwards from south to north; approximately half way up the passage, the ceiling form changes to sloping flagstones. The passage ascends steeply up ten well preserved steps to provide the only access to a chamber (NWT4) above. At its head, the mural passage is lit by a small single-light window W86 in the west wall. This is the only instance within any of the castle's towers where two chambers are linked vertically by a private mural stair. The passage walls preserve some graffiti. The oldest are pencil inscriptions 'AH' and 'SR' dated the '24th June 1880' and the '25th June 1880' but the majority is crudely scratched onto the walls and dates to 1985.

The chamber was formerly crossed by at least four closely spaced north-south aligned floor joists, the sockets for which survive to the north wall; there is a deep horizontal band of core to the south wall at the same level. A horizontal slot to the east of doorway D44 in the north wall probably marks the former internal floor level and presumably once accommodated wooden boards laid over floor joists. The chamber was not equipped with a fireplace and was apparently also without a garderobe [1].

Elements: *Doors:* Three. D34 (later insertion) - 0.60w x 1.70h; D43 (into passage to NWT4) - 0.65w x 2.15h; D44 (into chamber from passage and NB4) - 0.70w x 1.95h.

Windows: Three. W41 (W wall) - light 0.45w x 0.95h, opening 0.80w x 1.25h, recess 2.90w x 1.00d x 2.20h; W51 (S wall) - destroyed; W86 (mural passage) - light 0.10w x 0.60h, opening 0.60w x 1.00h.

Fireplaces: None.

Cupboards: Two. E wall - 0.65w x 0.55d x 0.55h; S wall - 0.30w x 0.50d x 0.40h.

Garderobes: None.

Other:

Masons' marks: 18 in chamber, 36 in mural passage to NWT4.

Comments:

Plan level: 4 **Elevations:** 31-34 (internal), 17-18 (external)

Photos b/w: 2/17-18; 53/7-9, 53/11, 53/15, 53/17-18; 54/1-2, 54/4, 54/8, 54/10; 58/7-9, 58/11-12; 60/13; 61/9, 61/11-13.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: NWT4 (chamber)

Location: Uppermost (third) level of the north-west tower

Internal Dimensions: 3.40m N-S by 2.30m E-W.

Height: c.3.70m

Description: The uppermost (third level) chamber within the north-west tower. The only access to the chamber is via the mural stair passage rising from the chamber NWT3 below. This rises to a small landing at the head of stairs, lit by a narrow window (W86) in its west wall, and with a doorway (D58) to the east leading into the chamber. The doorway was formerly fitted with a door hinged to the north side, and opening into the angled north end of the passage. The chamber was lit by two windows, W39 in the west wall and W50 in the south wall. The west window (W39) is placed within a rectangular window opening, the base of which is set c.1m above the internal floor level. The opening is unevenly splayed in plan with a flat lintel supported by a chamfered corbel to the north side only. The single-light window was formerly fitted with an internal shutter, hinged to the south side and also equipped with an iron grille comprising two cross-bars and a single vertical standard socketed into the frame. The south window (W50) is of very similar form, the only significant difference being that the base of the window opening is equipped with a stone sink leading to an external spout (S15).

There is a wall cupboard at the north-east corner of the chamber and a fireplace (FP17) in the south wall adjacent to window W50. The fireplace has a flat chamfered lintel and a back formed by thinly coursed reddened stone. The fireplace is the only example of such in any of the chambers of the north-west tower but it is clearly a later insertion. A ragged joint can be traced up the south wall in line with the fireplace opening, and at the very top the flue has a curved back profile where it has been cut through wall core.

At a high level, plain corbels project from three of the four corners of the chamber. These would once have other supported roof trusses, or wall plates running along the east and west wall faces, which in turn supported the roof structure [1].

Elements: *Doors:* One. D58 (into chamber from mural passage) - 0.65w x 1.90h.

Windows: Three. W39 (W wall) - light 0.30w x 0.95h, opening 1.10w x 1.75h; W50 (S wall) - light 0.25w x 1.00h, opening 0.50w x 1.40h, recess 1.10w x 0.70d x 1.80h; W86 (W wall of passage) - light 0.10w x 0.60h, opening 0.60w x 1.00h.

Fireplaces: One. FP17 (SE corner, later insertion) - 1.00w x 0.60d x 0.85h.

Cupboards: One. N wall - 0.70w x 0.65d x 0.75h.

Garderoles: None.

Other: Sink in base of W50 draining externally south (S15).

Masons' marks: None.

Comments:

Plan level: 5

Elevations: 31-34 (internal), 17-18 (external)

Photos b/w: 1/17; 2/7, 2/15; 8/11, 8/14; 36/17-18; 37/1; 51/10-12; 52/18; 53/1-3, 53/5-6, 53/11-14; 60/8, 60/12; 61/8, 61/15.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: NET1 (entrance passage)

Location: Lowest level within the north-east tower

Internal Dimensions: 2.75m N-S by 4.3m E-W.

Height: c.3.75m

Description: A room in the lowest level of the north-east tower, forming an entrance passage, forming the primary access point to the castle. The original floor has been completely taken up and only exposed rubble core now survives at the base of the north and south walls. It appears that the store MB1 beneath the lower hall (MB2) may have extended beneath the entrance passage here. There is c.0.70m depth of exposed core beneath the former floor level, and then ashlar masonry resumes to the north and south walls for a further 0.50m, continuing beneath the ground surface here. Alternatively, if any space beneath the entrance passage was not part of store MB1, then it may have formed a separate chamber in its own right, although it must surely have been accessed through MB2.

The east doorway (D2) is at least 3.30m tall with a two-centred arched head. To the east face, the doorway is chamfered and has a hollow-chamfered, filleted and ovolo moulded surround with a hoodmould over. The south stop of the hoodmould is badly eroded but is still recognisable as the face of a man, perhaps wearing a helmet. It is rebated to the west (hall) face, where there is a broad segmental head to the rear arch; the sides splay outwards beyond the rebates to house the pair of doors that were once mounted here. No clear evidence for the door mounting survives, such as pintle holes. When the doors were closed, a drawbar was placed across them, as evidenced by the drawbar slots to either of the door splays. These are placed c.2m above the original floor level, rather high for practical use, although the south splay has another slot placed at c.1m above original floor level directly below the drawbar slot. The splays terminate at the former portcullis position; there are narrow vertical grooves to the north and south walls marking the position where the portcullis rose and fell.

Beyond the portcullis slot, the south wall of the passage is blank, while the north side is lit by a very narrow single light window (W20), almost an arrow loop, with a shouldered head and an unfinished carving of the word 'Vat' in relief Gothic script above. This is the same inscription as survives externally over the window in the chapel's east wall ('Vat sal be sal') although it is not certain that the two are contemporary; the single word could be the work of an 18th or 19th century copyist. The window opening has a deeply splayed plan with a shouldered head to the rear arch.

At the west end of the passage, there is another doorway (D5), formerly opening into the screens passage positioned at the lower end of the lower hall (MB2). The head of this doorway has now collapsed, but it was almost certainly a two-centred arch. The east face is moulded and chamfered, with a hoodmould over; the south stop is badly eroded but the north stop is still recognisable as the face of a man, perhaps wearing a helmet. The west face of the doorway is rebated; the north side splays outwards, while the south side runs straight back at a right angle. A second pair of doors were once mounted here, and like those to doorway D2, these could also be secured with a drawbar when closed.

The ceiling over the ground floor passage was formed by closely spaced and substantial north-south aligned joists, the recesses for which still partly survive. There must have been a narrow gap at the east end of the ceiling to allow the portcullis to be raised and lowered [1].

Elements: *Doors:* Two. D2 (main entrance into castle) - 1.80w x at least 3.30h; D5 (from chamber into screens passage and lower hall) - 1.70w x at least 2.50h.

Windows: One. W20 (N wall) - light 0.10w x 1.25h, opening 1.50w x c.2.60 h.

Fireplaces: None.

Cupboards: None.

Garderoles: None.

Other: Drawbar slots and portcullis slot.

Masons' marks: Nine in chamber.

Comments:

Plan level: 2

Elevations: 23-26 (internal), 3-5 (external)

Photos b/w: 24/14; 29/16; 33/8-9; 34/16-17.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: NET2 (portcullis chamber) **Location:** First floor of north-east tower

Internal Dimensions: 2.85m N-S by 2.90m E-W. **Height:** *c.3.25m

Description: A chamber on the first floor of the north-east tower. The only access into the chamber is via a doorway (D6) off the lesser newel stair in the north-east corner of the castle. This doorway leads into a small square lobby, which then opens into the chamber proper; scarring to the north wall shows that the lobby was once fitted with a door (D63), hinged to the north side.

The chamber is lit by two single-light windows, W19 in the north wall and W16 to the south wall. The north window (W19) has a splayed plan and is very narrow, without bars, but formerly fitted with a shutter hinged to the east side. The south window (W16) is of a similar plan form and design, the shutter being hinged to the west but also has a stone sink set into the west side of the base, with a raised area to the east. The sink drains south to chute S4 externally.

The portcullis grooves visible in the ground floor passage (NET1) rise up through the chamber at the north-east and south-east corners, as far as the former ceiling level, where they terminate; this would give a height for the portcullis of c.3.50m. In the east wall of the chamber, there are slightly deeper recesses positioned at the north and south ends, c.2.30m above the former internal floor level, immediately adjacent to the portcullis grooves. There are similar recesses set at the same height and also immediately adjacent to the grooves at the east end of the north and south walls. It is assumed that these housed a timber frame or mechanism used to either partly support the portcullis when it was in the raised position, or to secure it in the raised position in the event of one of the chains from the winding mechanism breaking. Unless the chains rose through the chapel (NET3) above, and then descended again, for which there is no structural evidence, they must have been run through supports suspended from the timber ceiling and then presumably down to a winding drum secured to the floor. Scarring to the north and south walls of the chamber indicates the former ceiling level; this may have been formed by north-south aligned joists, as on the ground floor (NET1) below, but all evidence for these has been removed [1].

Elements: *Doors:* Two. D6 (into lobby from lesser stairs) - 0.70w x 2.00h; D63 (from lobby into chamber) - 0.90w x 2.05h.

Windows: Two. W16 (S wall) - light 0.15w x 1.00h, opening 1.05w x 1.40h, recess 1.05w x 1.60h; W19 (N wall) - light 0.15w x 0.90h, opening 1.00w x 1.20h, recess 1.00w x 0.45d x 1.50h.

Fireplaces: None.

Cupboards: None.

Garderoles: None.

Other: Sink in base of W16 draining externally south to S4.

Masons' marks: None.

Comments:

Plan level: 3 **Elevations:** 23-26 (internal), 3-5 (external)

Photos b/w: 24/13, 24/16, 24/18; 25/1-2, 25/4-7; 56/2.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: NET3 (chapel)

Location: Second floor of north-east tower

Internal Dimensions: 2.75m N-S by 4.20m E-W.

Height: c.5.00m

Description: The castle chapel, located in the north-east tower. The only access to the chapel is through the 2.50m wide arched opening (D8) at the north end of the upper hall's (MB3) east wall. As has been noted in the description for the upper hall MB3, there are three stone shields, now blank, to the west face of the opening's head. In addition, the sides of the opening are now badly but differentially weathered, and the surface of the stone has lifted off in many places. Nevertheless, the differential weathering appears to have taken place to either side of a screen or other fitting placed across the opening D8, and the north internal face of the opening preserves a vertical line of mortar close to the west edge which marks the position of this fitting.

Once inside the chapel, the rear arch of the entrance (D8) is also provided with shields. The keystone of the arch bears a shield with the Aldeburgh arms, flanked to the north by the arms of the Vipont family. The chapel is lit by three windows, W18 to the north wall, W17 to the east wall and W15 to the south wall. The north window (W18) is housed within a rectangular window opening or recess, 3.50m tall and 2.20m wide. The floor of the opening is now formed by core, but the semi-circular rear-arch survives. The keystone of the rear-arch bears a shield with the arms of Aldeburgh. To the east, there are three further shields; those of Constable and probably Roos above, with Aldeburgh again set below. There are three more shields within the window opening, over the window itself; from west to east, these represent Sutton, Aldeburgh and possibly Baliol with label. There are a number of other features of note within the window opening. The west wall retains a narrow slot at the very north end, rising to c.1m above the internal floor level; above, there are at least three shallow sub-circular scars to the wall. The slot may be associated with a similar feature surviving in the north wall of the window opening, immediately to the west of the window itself; together, the two may mark the position of a low cupboard or other piece of fitted furniture. Above the slot in the north wall, there are two rows of recesses, the lowest placed c.2.50m above the former floor level. Each row comprises three small rectangular recesses, with a pair at the west end and a single example to the east. There is a shallow horizontal scar to the east wall of the window opening, c.0.70m above the former internal floor, with a wall cupboard above. The window itself is set at the east end of the opening's north wall. It is of two-centred arched form, and the head bears the remnants of quatrefoil tracery; the original form was probably two trefoil-headed lights with the quatrefoil over. The window was formerly fitted with fixed glazing, almost certainly stained glass, and was also equipped with an external iron grille comprising at least three cross-bars socketed into the frame.

The window to the east wall (W17) had the altar positioned directly beneath it. The altar has gone, although the 1.80m wide recess which formerly housed it survives. To the south inner side of the altar recess, there is a slightly projecting lip, chamfered to the soffit, set 0.80m above the base of the altar recess. Similar features run to the north and south of the recess at a slightly higher level, and these have rectangular recesses immediately above them. The window itself has a flat head and retains the remnants of trefoil tracery; the original form was probably three trefoil-headed lights with three trefoils over. The window was formerly fitted with fixed glazing, almost certainly stained glass, and was also equipped with an external iron grille comprising at least four cross-bars socketed into the frame. The semi-circular rear arch of the window opening bears three shields. The keystone is Baliol, flanked by Aldeburgh to the north and south.

Like the north window, the south window (W15) is also located within a tall window opening with a semi-circular rear-arch. The keystone of the rear-arch is formed by a probable Aldeburgh shield, with those of Thweng and Bordersley or Grauncestre to the east. There is a further shield of Aldeburgh impaling Sutton within the window opening, above the window head. Within the window opening, the east wall houses a wall cupboard of complex form, perhaps formerly used as the piscina. The cupboard is open to the west and north sides, with a low free-standing pillar at the north-west corner. The east opening (i.e. to the east wall of the W15 window opening) has a flat head. There is a shallow recess positioned approximately half way up the pillar forming the north side, with a poorly defined vertical scar rising up the wall above. The west opening (i.e. to the south side of the W17 window opening) also has a flat head, although there is a very shallow curving recess let into the lintel, perhaps suggesting that a door was once fitted here. Internally, the cupboard has a flat base, with a shallow rectangular socket or recess in the north wall; otherwise there are no other features.

The north side of the opening to window W15 gives access to a tight space, tall enough to stand in and lit by a small window (W11) in its east wall; there is also a small recess or cupboard to the west wall. The south wall of the space may have been subject to some alteration, and contains an area of core where the facing stone has been hacked away. The south window W15 itself, like the north window W18, is set at the east end of the window opening's south wall. It is of two-centred arched form, and the head bears the remnants of quatrefoil tracery; the original form was probably two trefoil-headed lights with the quatrefoil

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over. The window was formerly fitted with fixed glazing, almost certainly stained glass, and was also equipped with an external iron grille comprising at least four cross-bars socketed into the frame.

The ceiling over the chapel may have been formed by east-west aligned joists; there is no clear evidence for these, although the remains of sockets/recesses may just be visible over the rear-arch of opening D8 in the west wall [1].

Elements: *Doors:* One. D8 (from upper hall) - 2.50w x c.3.60h .

Windows: Four. W11 (E side of recess) - light 0.25w x 1.00h, recess 0.30w x 0.20d x height not recorded; W15 (S wall) - light (inc tracery) 0.80w x 1.90h, opening 0.75w x 1.85h, recess 1.55w x 0.95d x 3.30h; W17 (E wall) - light (inc tracery) 1.10w x c.2.20h, opening 1.10w x max 2.10h, recess 1.80w x 1.05d x 3.75h; W18 (N wall) - light (inc tracery) 0.80w x 1.90h, opening 0.80w x 1.90h, recess 2.20w x 1.04d x 3.50h.

Fireplaces: None.

Cupboards: Three. W18 (E side) - 0.70w x 0.65d x 0.95h; W15 (E side) - 0.70w x 1.00d x 0.90h; W15 (W side) - 0.40w x 0.25d x no height recorded.

Garderoberes: None.

Other: One full height recess in W side of W15 - 0.80w x 0.55d x no height recorded.

Masons' marks: Nine in chamber.

Comments: Peter Ryder suggests that when a large household was attending a service, the chapel could have function as the 'chancel' of the church, with the upper part of the upper hall separated off in some way to form the 'nave' (P Ryder, pers comm).

Plan level: 4 **Elevations:** 23-26 (internal), 3-5 (external)

Photos b/w: 18/18; 19/1-2, 19/4-5, 19/12; 25/8, 25/11-14, 25/16-17; 26/2, 26/5-8, 26/10-18; 27/1-2, 27/5-6; 32/16-18; 33/1-2; 34/10-13.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: NET4 (chamber)

Location: The uppermost level of the north-east tower

Internal Dimensions: 3.20m N-S by 3.20m E-W.

Height: At least 3.00m

Description: The uppermost chamber of the north-east tower. The only original access to the chamber was through a steeply ascending mural stair passage, entered through doorway D42 in the north side of the principal window W10 to the east wall of the upper hall (MB3). The passage ran north for c.2m and then curved around to the east and then the north, giving the upper part a tightly curving S-plan. The passage entered the south-west corner of the chamber via a doorway (D7), although this has now largely collapsed. At a later date, the mural passage was destroyed by the creation of a fireplace (FP2) to the north of window W10 in the upper hall's east wall, the flue of which cut through the passage. A new access therefore needed to be created, and this was done by cutting a doorway (D51) into the north-west corner of the chamber from the top of the lesser newel stair at the castle's north-east corner. Like several other doorways in the castle, this had a crudely carved semi-circular headed rebate to the interior of the chamber. To create the inserted doorway, an earlier doorway immediately to the west was disturbed and blocked. This doorway formerly gave access from the upper part of the lesser newel stair southward onto the wall-walk running along the top of the upper hall's MB3 east wall.

The chamber itself has now largely collapsed, and the only part to survive to any appreciable height is the west end of the north wall. Immediately to the east of doorway D51, there is a stone sink set into the north wall, emptying north into an external spout (S5). The remains of the west jamb of a window (W87) are also visible. This window appears to have been positioned in the centre of a rectangular window opening and was perhaps of a single-light. There may once have been a similar window positioned in the south wall and perhaps also in the east wall, although virtually all evidence for these has gone. A wall cupboard survives to the west wall; this is shallower than many of the other cupboards within the castle, and with the base positioned at c.1.30m above the former internal floor level, it is also set at a slightly higher level [1].

Elements: *Doors:* Two. D7 (original entrance into chamber via passage) - max 1.10w x max 1.70h; D51 (later insertion into chamber from lesser stair) - 0.55w x height not recorded.

Windows: One surviving. W87 (N wall) - destroyed.

Fireplaces: None surviving.

Cupboards: One surviving. W wall - 0.95w x 0.40d x 0.80h.

Garderoles: None.

Other: Sink in N wall draining north to S5.

Masons' marks: None.

Comments:

Plan level: 6

Elevations: 23-26 (internal), 3-5 (external)

Photos b/w: 18/10; 27/7-8, 27/10-13; 31/1; 32/10; 34/2, 34/4-5.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: NB1E (chamber and garderobe) **Location:** The east basement level of the north block

Internal Dimensions: 5.55m N-S by c.5m E-W.

Height: At least 3m

Description: The east basement level of the north block. The only surviving original access into the room is via a steeply inclined mural stair passage in the south wall, descending from the lesser newel stair at the castle's north-east corner; the stair itself was reached from a doorway (D12) at the east end of the north wall of the screens passage formerly located at the lower end of the lower hall (MB2). The ceiling over the mural passage is formed by sloping flagstones laid across its width. The door (D57) that was almost certainly present at the lower end of the passage has completely collapsed.

To the east of where the doorway would have been, adjacent to the north surviving wall of the passage, there is a curious feature that would once have been located within the chamber. Even allowing for the probable raised ground surface, the feature is placed at a very low level. It appears to be 0.55m wide and 0.30m deep (but partially buried), and is rebated to the east side; the overall form is suggestive of a below-stair wall cupboard with an opening door, although it is not clear why it should need to be placed at such a low level.

The ground surface of the chamber is now formed by compacted soil and rubble, richly carpeted with liverworts and ferns, and is probably somewhat higher than the original floor level.

The chamber is lit by a single window (W29) in the east wall, placed within a rectangular window opening with the remains of a broad segmental rear-arch over; the window was formerly equipped with an iron grille, comprising a single vertical standard socketed into the frame. There is a fireplace (FP9) to the immediate south of the window opening. The head of the fireplace, and much of the north side, have either collapsed or been destroyed, although in its original form it probably had the same flat stone lintel as occurs elsewhere within the castle. At a low level on the immediate south side of the fireplace, a shallow rectangular socket is visible in the wall face.

A small lobby opens off the chamber at the east end of the north wall, accessed by a doorway (D30). This lobby was formerly lit by a window (W37) at its north end, but only the lower part of east splay now survives. On the west side of the lobby, there is another doorway (D31) giving access to a mural passage leading to a garderobe (G1). This doorway is chamfered to the east (lobby) face and rebated to the west (passage) face and was formerly equipped with a door, hinged to the north side. The floor of the passage has been taken up but the ceiling is formed by flagstones laid across the passage and stepped downwards from east to west. The passage itself measures 2.40m E-W by 0.80m N-S, and at the west end it returns to the north to form the garderobe proper. The floor of the garderobe has been completely removed, so that there is now a void opening into the chute below. However, part of the stone seat survives, complete with approximately half of a slightly oval central hole. The garderobe was lit by a narrow single-light window (W38) to the north wall and there is a small recess or wall cupboard to the west wall. The base of an external chute (S12) for the garderobe remains in place directly below window W38, although much of the surrounding masonry has either collapsed or been removed to create an opening 2.5m high by 1.5m wide.

The ceiling over the chamber was formed by closely spaced north-south aligned joists, the sockets of which survive to the north and south walls. There was almost certainly once also an east-west aligned beam, but the evidence for its position has been lost. Indeed, removal of the beam may have caused some of the damage to fireplace FP9, and perhaps also the partition wall between the chamber and the vaulted chamber NB1W to the west.

Apart from projecting stubs at the north and south ends, the partition wall between NB1E and NB1W has been almost completely removed. The south stub is little more than exposed core, but the north stub preserves both faces, giving a width of c.1.10m. The removal of the partition wall means that it is difficult to be sure if the two basement chambers of the north block were ever connected, although given that both have separate access stairways, this perhaps suggests that they were not [1].

Elements: *Doors:* Three. D57 (from mural stairs) - 0.80w x height not recorded - partly destroyed; D30 (into garderobe lobby) - 1.05w x 2.20h; D31 (from lobby into garderobe passage) - 0.55w x height not recorded.

Windows: Three. W29 (E wall) - light 0.15w x 0.90h, opening 1.30w x 1.70h, recess c.1.80w x 0.95d x c.2.20h; W37 (N wall of lobby) - destroyed; W38 (garderobe) - light 0.10w x 0.30h, opening 0.40w x 0.50h.

Fireplaces: One. FP9 (E wall) - 1.45w x 0.70d x unknown height.

Cupboards: Two. S wall under stairs - 0.55w x 0.30d x c.0.40h; W wall of garderobe G1 - 0.45w x 0.25d x 0.30h.

Harewood Castle: Room Descriptions

Garderobes: One. G1 - 0.70 square.

Other: One spout (S11) exits on the external elevation, and so must lie beneath the internal ground level.

Masons' marks: Seven in garderobe.

Comments:

Plan level: 1 **Elevations:** 27, 28 and 30 (internal), 1-2 (external)

Photos b/w: 47/12-13; 56/3; 63/13-14; 64/2, 64/4.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: NB1W (chamber)

Location: The west basement level of the north block

Internal Dimensions: 5.20m N-S by 5.25m E-W.

Height: At least 3m

Description: The west basement level of the north block. The only surviving original access to this chamber is via a steeply inclined mural stair passage in the west wall, descending from the base of the north-east tower (NET1) (see NET1 for description). At its bottom end, the passage is lit by a small window W49 placed within a very deeply splayed opening; the single-light window itself is only 0.10m wide but the opening is over 1.50m to the passage. The window was formerly equipped with an internal shutter, hinged to the south side and bolted to the north; there is an area of exposed core beneath the window where the facing stone has been removed. The doorway (D25) at the end of the passage into the chamber is rebated to the west (passage) face and the door was formerly hinged to the south side; the east (chamber) face of the door is chamfered.

The main feature of the chamber are the remains of the semi-circular ribbed vault which formerly covered it. The vault was supported on five north-south aligned ribs, set at 0.75m centres. All five ribs have now collapsed or been removed, and only the stubs of either end remain. Each rib was 0.45m wide and 0.35m deep. The remaining sections are not chamfered or enriched in any way, and they now spring from c.0.80m above the compacted rubble and soil ground surface of the chamber. At the east end of the chamber, there are three opposed recesses flanking the two easternmost ribs. The recesses are all placed immediately below the springing line of the ribs and are neatly cut, extending up to 0.30m from the wall face. They may have been used to support the cantering for the ribs when they were being built, although some seem rather shallow for this purpose, and it is then unclear why they should be present only at the east end. Above these recesses, c.1.50m above the existing ground surface, there is a second set of recesses. There are seven in all to the north wall but only three to the east end of the south, opposite those in the north wall; it is probable that similar features once extended the length of the south wall. In contrast to the lower recesses, the upper ones are crudely cut but much deeper, extending up to 0.75m from the wall face. Their form and height suggests that they are the remains of a floor, inserted either after the ribs had collapsed or immediately after the vault had been removed to convert this space to another purpose.

The chamber is lit by a single window (W48) in the west wall. The window is placed within a rectangular opening with a segmental rear-arch over. The sides of the opening run parallel, whereas the window itself has a splayed plan. The window has been partly destroyed but enough remains to indicate that it was of a single light with an iron grille comprising two cross-bars and a single vertical standard. At the north-west corner of the chamber, there is a short angled passage with a scar to the west wall caused by the removal of a fitting. This passage leads to the shaft of a well, descending from the kitchen (NB2W) on the floor above. Due to a build up of later debris, the original height of the passage is now uncertain. However, it may have been tall enough to walk into, and if so this could suggest that water was needed for whatever took place in the chamber, as well as in the kitchen NB2W above.

Apart from the projecting stubs at the north and south ends, the partition wall between the chamber and the east basement chamber NB1E has been almost completely removed. The south stub is little more than exposed core, but the north stub preserves both faces, giving a width of c.1.10m; there is a slight step at the base of the west face. The removal of the partition wall means that it is difficult to be sure if the two basement chambers of the north block were ever connected. The spacing of the vault ribs may be significant in this respect. As has already been noted, the ribs are set at 0.75m centres. However, the distance between the west wall of the chamber and the centre of the westernmost rib is c.1m, possibly to allow easier access to the doorway (D25) and the well shaft. There is a similar distance between the centre of the easternmost rib and the projected east wall of the chamber, again possibly to allow easier access to a doorway that was perhaps positioned in the centre of the wall [1].

Elements: *Doors:* One. D25 (entrance into chamber from passage). D25 – NB1W – 1.10m w by height not recorded

Windows: Two. W48 (W wall) - light destroyed, opening 1.25w x 1.70h, recess 1.80w x 1.00d x 2.20h; W49 (N end of mural passage) - light 0.10w x at least 0.30h (partially buried), opening 1.50w x 1.10h.

Fireplaces: None.

Cupboards: None.

Garderoles: None.

Other: Passage in NW corner to well shaft. One spout (S13) exits on the external elevation, and so sink must lie beneath the internal ground level.

Harewood Castle: Room Descriptions

Masons' marks: None.

Comments: Former semi-circular ribbed vault over. May have functioned originally as a wine cellar.

Plan level: 1 **Elevations:** 28-30 (internal), 1 and 18 (external)

Photos b/w: 55/7; 63/15, 63/17-18; 64/1, 64/6.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: NB2E (buttery)

Location: Ground level of north block

Internal Dimensions: 6.00m N-S by 5.20m E-W.

Height: c.4.20m

Description: A chamber, located within the north block. The access to the chamber is via the two-centred arched doorway (D11), positioned in the centre of the north wall of the screens passage formerly located at the lower end of the lower hall (MB2). The jambs of the doorway splay outwards toward the chamber and there must once have been a door fitted here; slight damage suggests that there were once pintles set into the west side of the splay, and perhaps a bolt to the east. The rear arch of the doorway is segmental. There may once have been another access point from the kitchen (NB2W) to the west, although the partition wall between the two rooms has been completely demolished, apart from the north and south stubs, and so all evidence has been removed.

The chamber is lit by two windows, W35 to the north wall and W27 to the east wall. The latter (W27) is narrow (0.15m wide) and barred, but with no evidence for a shutter, and deeply splayed to the interior. The base has been damaged or decayed, but it may once have been stepped up from floor level into the base of the window itself. Like many other windows within the castle, the window to the north wall (W35) is set within a rectangular window opening or recess, 1.80m wide by 1.30m deep. However, the base of the window opening once projected 0.30m into the chamber to form a shelf or lip; at either end of this lip, there are projecting stones, chamfered to their outer edges and standing to 0.65m in height. The inner, straight, edge of each stone preserves a shallow vertical slot to the centre, apparently to hold planks or boards on edge. The base of the projecting lip is set only c.0.60m above the former internal floor level. Within the window opening, traces of a smooth lime mortar floor survive. The window itself is also unusual in that it was not shuttered and had fixed glazing, one of only very few such instances in the castle away from the upper and lower halls (MB2 and MB3), and the upper chamber (NB4) of the north block. The window was also formerly equipped with an iron grille, comprising four cross-bars and a single vertical standard, with an internal shutter hinged to the west side. To the west of the window opening, there is a stone sink set just above the former internal floor level, draining into an external spout (S10). In the opposite south wall, there is a two level wall cupboard, again the only example of such surviving within the castle. The lower recess is larger than the upper, and the two are separated by a slightly projecting stone shelf, chamfered to the underside; the east end of the chamfer is damaged. The shelf runs as far as a slightly projecting block of stonework situated at the east end of the south wall; the block projects only c.0.10m from the wall face but is 1.60m wide and 2.70m high.

The chamber was formerly crossed by a east-west aligned beam, with closely spaced joists running to the north and south; the sockets for the joists survive in the north and south walls of the chamber [1].

Elements: *Doors:* One surviving. D11 (into chamber from upper hall) - 1.35w x 2.55h.

Windows: Two. W27 (E wall) - light 0.15w x 1.10h, opening 1.60w x 2.30h; W35 (N wall) - light 0.35w x 1.10h, opening 0.35w x 1.10h, recess 1.80w x 1.30d x 2.25h.

Fireplaces: None.

Cupboards: One. S wall - a two level wall cupboard, bottom 0.95w x 0.70d x 0.65h, top 0.65w x 0.45h x uncertain depth.

Garderoles: None.

Other: Ground level sink draining externally north to S10.

Masons' marks: None.

Comments: Different arrangements of window furniture to W35, with recess structure extending into the room.

Plan level: 2 **Elevations:** 7, 28 and 30 (internal), 1-2 (external)

Photos b/w: 28/2, 28/5; 46/7, 46/12, 46/14, 46/17; 47/1-2, 47/4, 47/7-8; 63/3, 63/5-6, 63/11; 64/2-4.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: NB2W (kitchen)

Location: Ground level of north block

Internal Dimensions: 6.00m N-S by 5.70m E-W.

Height: c.4.40m

Description: Kitchen, located on ground level of the north block. Decay and destruction have removed any clear evidence for where the original access to the kitchen was. There may once have been a access point from the chamber (NB2E) to the east, although the partition wall between the two has been completely demolished, apart from the north and south stubs. It is almost certain that there would have been a doorway (D62) in the opening connecting the kitchen to the lowest level of the north-west tower NWT1 (see NWT1 for detailed description), combined with a dresser hatch.

The kitchen is dominated by the remains of two fireplaces, FP6 to the west wall and FP10 to the north wall. The west fireplace recess (FP6) is 3.90m wide and 1.05m deep. The back of the fireplace is formed by ashlar stonework of the same depth and form as that used in the walls. The head has either collapsed or been removed, exposing the tapered flue behind; it is probable that the fireplace originally had a broad arched head. Above the fireplace, flanking the flue at a high level in the kitchen's west wall, there are two small windows W44 and W45. The north window (W45) is slightly taller and appears to have been fitted with fixed glazing originally. It was also equipped with an iron grille, comprising three-cross bars and a single vertical standard, and had an internal shutter hinged to the south side. The south window (W44) also appears to have had fixed glazing and was also equipped with an iron grille, comprising three cross-bars and a single vertical standard; there is no surviving evidence for a shutter. Both window openings are splayed internally to their flue sides only, so as to maximise the light entering this area.

The north fireplace recess (FP10) is slightly larger than the other, c.3.90m wide and 1.20m deep. The head has either collapsed or been removed, exposing the tapered flue behind; it is probable that the fireplace originally had a broad arched head and it is estimated to have been c.4.90m high. The lower part of the back of the fireplace has been removed but the upper part is of the same ashlar stonework as the walls. Two sockets survive in the rear wall, set 2.30m apart and 1.60m above the former fireplace; there is also a third possible socket, placed at a slightly higher level. There is a stone sink to the immediate west of the fireplace, set just above the original floor level, draining north into an external spout (S14). At a high level, to the north of the fireplace, there is a window (W36). This window was possibly of two lights with a central mullion?. It may have been partly fitted with fixed-glazing, although this is not certain, but each light was equipped with an iron grille comprising three cross-bars and a single vertical standard socketed into the frame; there is no surviving evidence for internal shutters. To the east of the window, an area of wall face and core has been crudely hacked-out and the resulting face then smoothed over and repointed using a bright white lime mortar.

A baking oven is positioned across the south-east angle of the kitchen. The low mouth of the oven originally had a shallow arched head and may have been fitted with either a single or a pair of doors. To either side of the mouth, a narrow sill, chamfered to the underside, projects from the wall face. Above the mouth, the wall is corbelled out to the west side only. It is possible that this corbelling supported a small hood or canopy structure, directing smoke into the flue above, although it is not clear if smoke would have been let out the mouth of the oven or perhaps another opening positioned above it and now lost. The interior of the oven is slightly oval rather than circular in plan, measuring a maximum of 1.70m north-east/south-west by 1.40m north-west/south-east. In section, the oven has a slightly domed profile; the side walls do not rise vertically, but angle outwards for a height of 0.50m before rising to the flattened apex of the dome, which is set 1.25m above the floor. The floor of the oven is formed by reddened irregularly shaped flagstones set within a lime mortar, while the interior is lined with coursed squared stone, also reddened and burnt. The flue structure of the oven is of some considerable interest, even the structure has unfortunately been partly destroyed. It emerged from above the oven's mouth as a slot, c.1m wide but measuring only 0.10m from front to back. It then arched back south over the oven, rising at an angle and becoming wider as it does so. At c.2.30m above the flue opening, the flue then rises vertically; on the floor above, its course has been blocked following alterations to the fireplace in the south wall of the chamber NB3 above.

At the north-west corner of the kitchen, a narrow opening leads into an angled passage, which opens into the small chamber over the well; the chamber has a restricted plan, measuring only some 1.30m N-S by 1.60m E-W. There are a number of vertically aligned sockets in the west wall of the chamber. The well shaft is rectangular in plan and located on the east side of the chamber. There is a rectangular stone block at the south end of the shaft, standing c.0.50m high, with shallow recesses in its surface adjacent to the shaft flanking a shallow curving recess. These features are mirrored by identical recesses in the wall above the north side of the shaft; together, these must mark the position of the wooden frame over the shaft. The position of the windlass or winding drum across the shaft is marked by a shallow circular recess in the east wall, positioned above the centre of the shaft.

The kitchen was formerly crossed by a north-south aligned beam, with joists extending to the

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north and south; only the joist recesses to the west wall survive [1].

Elements: *Doors:* None surviving. Faint trace of D62 - connecting door with NWT1.

Windows: Three. W36 (N wall) - light 1.05w x 1.60h, opening 1.05w x 1.65h; W44 (W wall) - light 0.40w x 1.10h, opening 1.10w x 1.60h; W45 (W wall) - light 0.40w x 1.10h, opening 1.20w x 1.40h.

Fireplaces: Two. FP6 (W wall) - 3.90w x 1.05d x 3.80h; FP10 (N wall) - c.3.90w x 1.20d x c.4.90h.

Cupboards: None.

Garderobes: None.

Other: Floor level sink draining north to S14. Oven in SE angle. Passage in NW corner to well shaft.

Masons' marks: None.

Comments:

Plan level: 2 **Elevations:** 8-30 (internal), 1 and 18 (external)

Photos b/w: 28/1, 28/4; 42/8, 42/10; 43/4, 43/7; 46/13; 47/10-11; 48/16, 48/18; 49/2, 49/4-7, 49/11-12; 51/1-2, 51/4-8; 59/11-12, 59/14, 59/17; 60/1-2; 61/1, 61/4; 63/1, 63/8-9; 64/5.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: NB3 (stewards chamber and garderobe) **Location:** First floor of north block

Internal Dimensions: 5.70m N-S by 11.80m E-W. **Height:** c.3.10m

Description: Chamber, located within the north block. The only original access to the chamber was from a doorway (D35) off the lesser newel stair at the castle's north-east corner. There appears to have been no door fitted to this opening, which leads into a short mural passage/lobby, rising over two stairs from south to north. There is a second doorway (D27) at the north end of the passage's west wall. This doorway is chamfered to the west (chamber) face and rebated to the passage; it was formerly fitted with a door hinged to the west side and opening into the angled north end of the passage.

The chamber is lit by three windows, placed asymmetrically around three of the walls. The window to the east wall (W24) is placed within a sub-rectangular window opening; the base of the opening is set at the approximate height of the former floor level and rises 2.25m to the shouldered head, supported on cyma moulded corbels. The sides of the window opening run parallel for a short distance and then splay inwards towards the window opening; the splays are unequal, the north side being shallower. The window itself was of two lights with a central mullion. Each light appears to have been provided with fixed glazing and an iron grille comprising at least a single vertical standard socketed into the frame; they also had internal shutters, hinged to the outer sides and closing flush to the rebated inner face. The window (W34) to the north wall is positioned towards its west end. The base of the window opening is also set at the approximate former floor level, with a shouldered head over supported on curved corbels. The single-light window may have been provided with fixed-glazing originally, although the form of the glazing slot is quite irregular and so this is not certain. The window was equipped with an iron grille, comprising three cross-bars and a single vertical-standard socketed into the frame, and was also fitted with an internal shutter hinged to the east side. The third window (W42) is placed towards the north end of the west wall. The window opening is has a shouldered head to the chamber, supported on a single moulded corbel to the south and two levels of moulded corbels to the north side. The south side of the window opening runs straight for a short distance and then splays inward towards the window, while the north side is evenly splayed from the chamber to the window. The window itself is well preserved and is of two lights with a central mullion. Both lights appear to have been provided with fixed glazing originally and were equipped with iron grilles, comprising three cross-bars and a single vertical standard socketed into the frame. There was a separate internal shutter to each light, closing flush to the rebated east face; there was presumably once a bar or latch used to close them across the mullion.

The chamber was heated by a single fireplace (FP7) with a flat stone lintel supported on curved corbels, placed slightly to the east of centre of the south wall. The back of the fireplace has been rebuilt in red handmade brickwork; the brickwork itself is now also decayed, but had an average depth of 45mm; the repair to the back of the fireplace blocked the flue rising from the bread oven in the ground floor kitchen below (NB2W).

A doorway (D29) at the east end of the north wall opens into a mural garderobe passage; the north (passage) face is rebated and was formerly fitted with a door hinged to the east side. The passage is aligned east-west, and is 5.80m long and 0.70m wide. At the east end, a stone sink is set into the passage floor, draining into an external chute (S9). A short distance to the north, there is a small window (W32) with a second stone sink set into the base draining to another spout (S32). At its west end, the passage returns to the north into the garderobe (G2) proper, which measures 1.40m N-S by 1.40m E-W. The north wall of the garderobe has been almost completely hacked out. The seat was formerly positioned against the north wall, with a small window (W33) above, but these have also been removed although the shaft is still visible, the chute is not visible externally and so must lie beneath ground level. There is a small wall cupboard or recess in the west wall, perhaps formerly used to house a light. The garderobe chute must exit to the north, but nothing is visible on the external elevation, suggesting it lies beneath the current ground level. The ceiling of the garderobe passage is formed by flagstones laid across its width. To the west of the garderobe doorway, in the approximate centre of the north wall of the chamber, there appears to be a staggered joint in the stonework where the coursing is misaligned.

At a later date, a second doorway D23 was cut through the west end of the south wall, into a mural passage leading to chamber NWT2 in the north-west tower (see NWT2 for detailed description). There is a further low opening cut through the south wall into the mural passage to the east of the doorway.

The chamber was formerly crossed by a number of north-south beams, of which the position of only one can still be clearly seen; joists ran east and west from the beams [1].

Elements: *Doors:* Four. D23 (inserted from passage to NWT2) - 0.60w x 1.75h; D27 (entrance into chamber from lesser stair) - 0.80w x 1.95h; D29 (to garderobe passage) - 0.60w x 1.70h; D35 (exit

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from lesser stair) - 0.75w x height not recorded.

Windows: Five. W24 (E wall) - light 1.05w x 1.60h, recess 1.95w x 0.40d x 2.25h; W32 (garderobe passage) - light 0.15w x 0.45h, opening (inc sink) 0.50w x 0.45h; W33 (garderobe) - destroyed; W34 (N wall) - light 0.45w x 1.20h, opening 1.55w x c.1.95m h; W42 (W wall) - light (inc mullion) 1.15w x 1.55h, recess 2.00w x 0.70d x 2.20h.

Fireplaces: One. FP7 (S wall) - 1.60w x 0.60d x 1.35h.

Cupboards: One in garderobe NB3 - W wall of garderobe G2 - 0.45w x 0.30d x 0.30h.

Garderobes: One. G2 - 1.40 N-S x 1.40 E-W.

Other: Two sinks in garderobe passage, draining north (S9 and S34).

Masons' marks: Two in chamber, 18 in garderobe.

Comments:

Plan level: 3 **Elevations:** 27-30 (internal), 1, 2 and 18 (external).

Photos b/w: 33/3, 33/5-7; 37/17; 38/2, 38/14; 39/8, 39/17-18; 41/7-8, 41/12-14, 41/16-18; 42/4-7; 43/5; 45/18; 46/1-2, 46/4-6, 46/8-9, 46/11; 48/12-14; 51/13-14; 59/6-8, 59/10, 59/13; 61/2, 61/5-7, 61/17-18; 62/1-2, 62/5-6.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

Harewood Castle: Room Descriptions

Room number: NB4 (chamber)

Location: Uppermost (second) level of the north block

Internal Dimensions: 5.70m N-S by 11.80m E-W.

Height: c.3.60m to level of roof trusses

Description: Chamber, located on the uppermost level of the north block. The only original access to the chamber was from a doorway (D26) positioned at the north end of a short mural passage leading off the north end of the upper hall (MB3) (see MB3 for detailed description). The doorway opened into the south-east corner of the chamber but a later date another doorway (D28) was cut through immediately to the north from the lesser newel staircase at the castle's north-east corner; the single surviving section of jamb has been set in place upside down using a slightly different mortar to the surrounding masonry.

Although the main features within the chamber are not absolutely symmetrically placed, there appears to have been an attempt to create a greater sense of symmetry within this chamber than occurs elsewhere in the castle, as can also be seen in the lower and upper halls (MB2 and MB3).

The chamber is lit by four windows in total, one (W23) to the east wall, two (W30 and W31) to the north wall, and one (W40) to the west wall, all of similar form. Each window is placed within a large window opening measuring c.2m in width. The base of the window openings are set only c.0.10m above the former internal floor level and rise 3.10m to the centre of the broad segmental rear-arch. The sides of the two windows in the north wall (W30 and W31) run parallel for a short distance and then splay inwards towards the window; the sides of the east and west windows are similar, but the splay is unequal, being greater to the south. All windows openings were provided with a seat in the form of a stone bench running parallel to the window; each bench was 0.45m deep and stood c.0.70m high, with a slightly projecting moulded lip. The windows themselves were all mullioned and transomed and of four lights. The upper lights had fixed glazing and were provided with internal shutters, hinged to the outer sides. The glazing slots are either partly absent from the surviving parts of the lower lights or very shallow, and while it is possible that this might indicate fixed glazing with opening panels as sometimes shown in late medieval illustrations, it is more likely that the lower lights were provided with shutters only. However, both upper and lower lights were fitted with iron grilles of four cross bars and a single vertical standard, socketed into the frame.

There are wall cupboards to the south of window W40 in the west wall and to the west of W31 in the north wall. There is a stone sink leading to an external spout (S8) set at a low level to the east of window W30. A fireplace (FP8) with a flat stone lintel is positioned in the centre of the south wall; above the lintel, there are four separate pieces of stone joined with joggled joints, apparently to relieve the lintel. The back of the fireplace has been rebuilt at some point using slightly more thinly coursed stonework than the original. There are two small pieces of iron set into the wall immediately to the west of the fireplace, whereas to the east, between the fireplace and doorway D26, there are two vertically aligned rectangular recesses set at 1.60m and 1.90m above the former internal floor level; these may have been used to support a wall-mounted sconce or candelabrum. There appears to have been a similar feature positioned mid-way between the windows in the north wall, as there are four vertically aligned recesses here, set between c.1.70m and 2.30m above the former internal floor level.

At the west end of the south wall, another doorway (D24) gives access to a short mural passage leading to a chamber (NWT3) in the north-west tower (see NWT3 for detailed description).

Recesses at a high level (placed above a step in the wall face to the south wall of the chamber) in the north and south walls indicate that the chamber was once crossed by two north-south aligned roof trusses. There is no clear evidence that the chamber was ceiled, and so the roof trusses may have been visible and perhaps of decorative form [1].

Elements: *Doors:* Three. D24 (into NWT3) - 0.70w x 2.00h; D26 (into upper hall) - 0.80w x 1.90h; D28 (into chamber from lesser newel stair - later insertion?) - 0.85w x base destroyed.

Windows: Four. W23 (E wall) - light (inc transom) 1.05w x 2.05h, recess 1.95w x 0.40d x 3.00h; W30 (N wall) - light 1.05w x 2.00h, recess 1.95w x 0.50d x 3.10h; W31 (N wall) - light 1.05w x 2.00h, recess 2.05w x 0.40d x 3.55h; W40 (W wall) - light 1.05w x 2.05h, recess 2.00w x 0.50d x 3.00h.

Fireplaces: One. FP8 (S wall) - 1.75w x 0.55d x 1.30h.

Cupboards: Two. W wall - 0.75w x 0.90d x 1.05h; N wall - 1.00w x 0.70d x 0.65h.

Garderoles: None.

Other: Sink draining north to S8.

Masons' marks: One in chamber.

Harewood Castle: Room Descriptions

Comments: All window openings were provided with benches or seats.

Plan level: 4 **Elevations:** 27-30 (internal), 1, 2 and 18 (external).

Photos b/w: 27/17-18; 32/5-8; 34/6-8, 34/18; 35/1, 35/4; 37/2, 37/4-8, 37/10-14, 37/16; 44/13-14, 44/16-18;
45/2-3, 45/5-6, 45/8-9, 45/11-13, 45/15, 45/17; 48/1-2, 48/4-6, 48/8, 48/10; 51/16-18; 52/1-2,
52/4-8, 52/10-13, 52/16-17; 54/17; 55/1-2; 59/1-2, 59/4-5.

References: [1] Shaun Richardson EDAS, site visits during 2004-05 works.

APPENDIX 2
CATALOGUE OF MASONS' MARKS

APPENDIX 2: SUMMARY OF MASONS' MARKS

1) Marks classed by overall numbers recorded (475 in total)

Type	Number of examples	Location
Asterisk	125	SW tower, SE tower, NW tower, NE tower, Middle block, North block
X form	104	SW tower, SE tower, NW tower, NE tower, Middle block, North block, lesser newel stair
Right angle	50	SW tower, SE tower, NW tower, Middle block, North block, lesser newel stair
Bench	36	SW tower, SE tower, NW tower
Hourglass	31	SW tower, SE tower, NE tower, Middle block, North block, lesser newel stair
X with legs	29	SW tower, SE tower, Middle block
Full arrow	24	SW tower, SE tower, NW tower, NE tower
Zigzag	11	NW tower, lesser newel stair
V form	17	SE tower, NW tower, NE tower, Middle block, North block
Marian?	11	SW tower, SE tower, NE tower, lesser newel stair
T form	5	NW tower, NE tower
Crossed triangle	4	NW tower, NE tower
Right angle T	3	Lesser newel stair
Cross	3	SW tower, lesser newel stair
Star	2	SW tower
Rectangle	2	SW tower
Hourglass variation	2	SW tower
Half hourglass	2	NW tower
Crossed arrow	2	NE tower
Bench variation	2	North block
M form	2	Middle block
Right angle triangle	1	SE tower
Tailed rectangle	1	SW tower
Crossed rectangle	1	SW tower
Roman Two	1	SW tower
Umbrella	1	SW tower
Bowtie	1	NW tower
Hache	1	NE tower
Crossed one	1	Lesser newel stair

2) Marks classed according to location

South-west Tower

Room/Space	Type	Number
SWT1	None	
Mural passage from MB3 to SWT2	Asterisk	1
	Bench	1
SWT2	Asterisk	1
Garderobe G3	Asterisk	2 (on door chamfer)
	X with legs	2 (on door chamfers)
Mural passage from MB3 to SWT3	Asterisk	2
	X with legs	2
	X form	3

SWT3	X form X with legs Asterisk Right angle Full arrow Tailed rectangle Crossed rectangle	9 9 11 7 1 1 1
Garderobe G5	X form Asterisk Marian? Right angle Cross Star	2 2 1 1 1 (on door chamfer) 2 (on door chamfers)
SWT4	X form Asterisk Cross Right angle Rectangle Full arrow Hourglass variation	7 11 1 1 2 2 2 (on door chamfers)
Garderobe G7	X form Asterisk	1 1
SWT5	X form Bench Hourglass Asterisk Right angle Roman two	1 5 2 1 1 1
Garderobe G9	Hourglass Bench X form Full arrow Asterisk Umbrella	5 (one to seat) 3 1 1 1 1 (on door chamfer)
Totals (113)	Asterisk X form X with legs Right angle Bench Hourglass Full arrow Rectangle Star Hourglass variation Cross Tailed rectangle Crossed rectangle Marian? Umbrella Roman two	33 24 13 10 9 7 4 2 2 2 2 1 1 1 1 1
<p><i>Notes:</i> Majority on walling stone. Preponderance of survival to upper floors - differential weathering?, as the vast majority are in sheltered garderobes.</p>		

South-east Tower

<i>Room/Space</i>	<i>Type</i>	<i>Number</i>
SET1	None	
SET2	X form	1
Garderobe G4	X form Asterisk X with legs Hourglass Right angle triangle M form	5 5 2 1 1 1
SET3	X form Right angle Marian?	1 1 1 (on door)
Garderobe G6	X form Asterisk Right angle V form	8 21 7 1
SET4	X form Full arrow Asterisk X with legs Bench	8 2 7 1 1
Garderobe G8	X form X with legs Bench Asterisk Right angle Full arrow Marian?	4 2 9 19 9 1 2
SET5	X form Full arrow Asterisk X with legs Bench Right angle V form	6 9 1 4 9 3 7
Garderobe G10	X form Full arrow Bench V form Right angle X with legs Asterisk	8 6 7 2 3 4 3
Totals (193)	Asterisk X form Bench Right angle Full arrow X with legs V form Marian? Hourglass Right angle triangle M form	56 41 26 23 18 13 10 3 1 1 1
<p><i>Notes:</i> All on walling stone. Preponderance of survival to upper floors – differential weathering?, as the vast majority in SET2, SET4 and SET5 are in sheltered garderobes.</p>		

North-west Tower

<i>Room/Space</i>	<i>Type</i>	<i>Number</i>
NWT1	X form	1
Mural passage to NB1W	Bowtie	1 (to corbel)
NWT2	X form	1
	Right angle	1
	Marian?	1
Mural passage from MB3 to NWT2	X form	3
	Asterisk	7
	Right angle	2
	Hourglass	1
NWT3	X form	5
	Right angle	3
	Asterisk	2
	V form	4 (inc one to jointed corbel)
	Half hourglass	2
	Full arrow	1
	T form	1 (jointed corbel)
Mural passage from NWT3 to NWT4	Asterisk	10
	X form	8
	Zigzag	9
	Right angle	7
	Bench	1
	Crossed triangle	1
NWT4	None	
Totals (72)	Asterisk	19
	X form	18
	Right angle	13
	Zigzag	9
	V form	4
	Half hourglass	2
	Full arrow	1
	T form	1
	Bench	1
	Crossed triangle	1
	Hourglass	1
	Marian	1
	Bowtie	1
<i>Notes: All on walling stone, X form in NWT1 on a voussoir. Preponderance of survival to upper floors –differential weathering?, as vast majority in NWT3.</i>		

North-east Tower

<i>Room/Space</i>	<i>Type</i>	<i>Number</i>
NET1	Crossed arrow	2
	Crossed triangle	3
	X form	1
	Hache	1
	Full arrow	1
	Hourglass	1
NET2	None	
NET3	X form	2
	Asterisk	5
	V form	1
	Hourglass	1
NET4	None	

Totals (18)	Asterisk	5
	X form	3
	Crossed triangle	3
	Crossed arrow	2
	Hourglass	2
	Full arrow	1
	V form	1
	Hache	1
<i>Notes:</i> All on walling stone. Preponderance of survival to less weathered areas? – i.e. recess to south-west corner of chapel.		

Middle Block

<i>Room/Space</i>	<i>Type</i>	<i>Number</i>
MB2	Hourglass	1 (on door chamfer)
MB3	X form	4
	Asterisk	5
	X with legs	3
	M form	1
Mural passage to NET4	X form	3
	Asterisk	5
	T form	4
	Right angle	2
	V form	1
Totals (29)	Asterisk	10
	X form	7
	T form	4
	X with legs	3
	Right angle	2
	M form	1
	Hourglass	1
	V form	1
<i>Notes:</i> All on walling stone. Preponderance of survival to less weathered areas? such as window embrasures etc.		

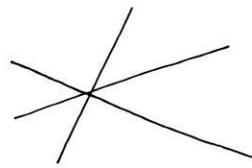
Lesser Newel Stair

<i>Room/Space</i>	<i>Type</i>	<i>Number</i>
Totals (22)	Marian?	6 (to lower parts)
	X form	4
	Hourglass	4
	Right-angle T	3
	Zigzag	2
	Right angle	1
	Cross	1 (on tread)
	Crossed one	1
<i>Notes:</i> Majority on walling stone.		

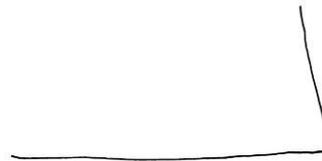
North Block

<i>Room/Space</i>	<i>Type</i>	<i>Number</i>
Garderobe G1	Hourglass	5 (all door chamfers)
	V form	1 (door chamfer)
	Asterisk	1
NB3	X form	2

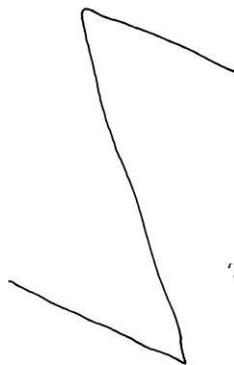
Garderobe G2	Hourglass	10
	X form	5
	Bench variation	2
	Right angle	1
NB4	Asterisk	1
Totals (28)	Hourglass	15
	X form	7
	Bench variation	2
	Right angle	1
	V form	1
	Asterisk	2
<i>Notes: As others, almost all on walling stone and preponderance of survival to garderobes etc</i>		



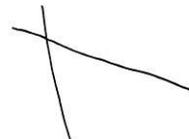
'Asterisk'



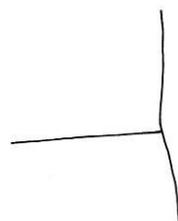
'Right angle'



'Zig zag'



'X form'



'T form'

0 50mm

APPENDIX 3
WINDOW, DOOR AND FIREPLACE LOCATIONS

APPENDIX 3: WINDOW (W), DOOR (D) AND FIREPLACE (FP) LOCATIONS

EDAS Condition Survey 2001 & 2004-05 Survey	Location/Room	Elevations (E); Plan Level (PL)	Latham 1989
W1	SET4	E8 (ext), E41 (int); PL6	W1
W2	SET3	E8 (ext); E41 (int); PL5	W2
W3	Main stair	E8 (ext), E41 (int); PL4/5	W3
W4	SET2	E8 (ext), E41 (int); PL4	W8
W5	SET1	E8 (ext); E41 (int); PL2	
W6	Main stair	E8 (ext), E41 (int); PL2	W10
W7	Main stair	E7 (ext); PL6	W58
W8	Main stair	E7 (ext); between plan levels	
W9	MB3	E6 (ext), E41 (int); PL4	W9
W10	MB3	E6 (ext), E21 (int); PL4	W4
W11	NET3	E6 (ext); PL4	O16
W12	MB2	E6 (ext), E21 (int); PL2	W11
W13	MB2	E6 (ext), E21 (int); PL2	W12
W14	MB2	E6 (ext); PL2	
W15	NET3	E5 (ext), E25 (int); PL4	W59
W16	NET2	E5 (ext), E25 (int); PL3	
W17	NET3	E4 (ext), E23 (int); PL4	W5
W18	NET3	E3 (ext), E24 (int); PL4	W18
W19	NET2	E3 (ext), E24 (int); PL3	W21
W20	NET1	E3 (ext), E24 (int); PL2	W24
W21	MB1	E3 (ext), E19 & E21 (int); PL1	
W21	MB1	E2 & E3 (ext), E19 & E21 (int); PL1	
W22	Lesser stair	E2 (ext); PL4	W6
W23	NB4	E2 (ext), E27 (int); PL4	W7
W24	NB3	E2 (ext), E27 (int); PL3	W4 & W14
W25	Lesser stair	E2 (ext); PL3	W13
W26	Lesser stair	E2 (ext); between plan levels	W15
W27	NB2E	E2 (ext), E27 (int); PL2	W6 & W16
W28	Lesser stair	E2 (ext); PL2	W17
W29	NB1E	E2 (ext), E27 (int); PL1	W74
W30	NB4	E1 (ext), E28 (int); PL4	W20
W31	NB4	E1 (ext), E28 (int); PL4	
W32	G2 (NB3)	E1 (ext); PL3	O2
W33	G2 (NB3)	E1 (ext); PL3	W23
W34	NB3	E1 (ext), E28 (int); PL3	
W35	NB2E	E1 (ext), E28 (int); PL2	W25
W36	NB2W	E1 (ext), E28 (int); PL2	
W37	G1 (NB1)	E1 (ext); PL1	O4
W38	G1 (NB1)	E1 (ext); PL1	
W39	NWT4	E18 (ext), E34 (int); PL5	W27
W40	NB4	E18 (ext), E29 (int); PL4	W69
W41	NWT3	E18 (ext); E34 (int); PL4	W29
W42	NB3	E18 (ext), E29 (int); PL3	W70/W71
W43	NWT2	E18 (ext), E34 (int); PL3	W34
W44	NB2W	E18 (ext), E29 (int); PL2	W72

W45	NB2W	E18 (ext), E29 (int); PL2	W36
W46	NWT1	E18 (ext), E34 (int); PL2	W37
W47	NWT1	E18 (ext); PL2	W42
W48	NB1W	E18 (ext); E29 (int); PL1	F10
W49	NB1W	E18 (ext); E29 (int); PL1	W44
W50	NWT4	E17 (ext), E33 (int); PL5	W63
W51	NWT3	E17 (ext), E33 (int); PL4	O15
W52	NWT2	E17 (ext), E33 (int); PL3	W64
W53	MB3	E16 (ext); E22 (int); PL4	W30
W54	MB3	E16 (ext); E22 (int); PL4	W31
W55	Passage MB3-SWT3	E16 (ext); PL5	W32
W56	MB3	E16 (ext); E22 (int); PL4	W35
W57	MB2	E16 (ext); E22 (int); PL2	W38
W58	MB2	E16 (ext); E22 (int); PL2	W39
W59	MB2	E16 (ext); E22 (int); PL2	W40
W60	MB2	E16 (ext); E22 (int); PL2	O1
W61	SWT5	E15 (ext), E35 (int); PL7	W65
W62	SWT4	E15 (ext), E35 (int); PL6	
W63	SWT3	E15 (ext), E35 (int); PL5	W67
W64	SWT2	E15 (ext), E35 (int); PL4	W68
W65	SWT1	E15 (ext), E35 (int); PL2	
W66	SWT5	E14 (ext), E36 (int); PL7	W28
W67	SWT4	E14 (ext), E36 (int); PL6	W33
W68	SWT2	E14 (ext), E36 (int); PL4	W41
W69	SWT5	E13 (ext), E37 (int); PL7	W45
W70	SWT4	E13 (ext), E37 (int); PL6	W49
W71	SWT3	E13 (ext), E37 (int); PL5	W52
W72	G7 (SWT4)	E12 (ext); PL6	W60
W73	G9 (SWT5)	E11 (ext), E37 (int); PL7	W46
W74	G10 (SET5)	E11 (ext), E42 (int); PL7	W47
W75	G8 (SET4)	E11 (ext), E42 (int); PL6	W50
W76	MB4	E11 (ext); E20 (int); PL5	W54
W77	MB4	E11 (ext); E20 (int); PL5	W55
W78	G6 (SET3)	E11 (ext); PL5	
W79	G5 (SWT3)	E11 (ext), E37 (int); PL5	W53
W80	G4 (SET2)	E11 (ext), E37 (int); PL4	W57
W81	G4 (SET2)	E10 & E11 (ext); PL4	W62
W82	SET5	E10 (ext), E39 (int); PL7	W61
W83	SET5	E9 (ext), E42 (int); PL6	W48
W84	SET4	E9 (ext), E42 (int); PL6	W51
W85	SET3	E9 (ext), E42 (int); PL5	W56
W86	NWT4	E18 (ext); PL5	
W87	NET4	E3 (ext); PL6	
D1	Main stair	E8 (ext), E41 (int); PL4	D1
D2	NET1	E4 (ext), E23 (int); PL2	D2
D3	Between NWT2 & NB3	E18 (ext), E34 (int); PL3	D3
D4	SWT7	E15 (ext); PL8	D14
D5	MB2	E21 & E26 (int); PL2	
D6	NET2	E26 (int); PL3	D16

D7	NET4	E25 (int); PL6	
D8	NET3/MB3	E21 & E26 (int); PL4	
D9	SWT5	E20 & E35 (int); PL7	D15
D10	MB2/NWT1	E22 & E32 (int); PL2	D24
D11	MB2/NB2E	E19 & E30 (int); PL2	D25
D12	MB2	E19 & E21 (int); PL2	D12
D13	MB2/SWT1	E20 & E35 (int); PL2	D19
D14	MB2	E21 (int); PL2	D13
D15	MB2	PL2	
D16	MB3	E21 (int); PL4	
D17	MB2	E22 (int); PL2	D23
D18	MB3	E19 (int); PL3/4	D21
D19	MB3	E19 (int); PL4	D6
D20	SET1	E40 (int); PL2	
D21	MB3	E20 (int); PL4	D17
D22	NWT1	E34 (int); PL2	
D23	NB3	E30 (int); PL3	
D24	NB4	E30 (int); PL4	D21
D25	NB1W	PL1	
D26	NB4	E30 (int); PL4	
D27	NB3	E27 (int); PL3	D11
D28	NB4	E27 (int); PL4	D7
D29	G2 (NB3)	E28 (int); PL3	
D30	NB1E	E28 (int); PL1	
D31	NB1E	PL1	
D32	MB3 wall-walk	E19 & E30 (int); PL6	D20
D33	NWT2	E31 (int); PL3	
D34	NWT3	E31 (int); PL4	
D35	Lesser stair	PL3	
D36	SWT2	E35 (int); PL4	
D37	G3 (SWT2)	E38 (int); PL4	
D38	SWT2/MB3	PL4	D18
D39	G4 (SET2)	E39 (int); PL4	
D40	SET3	E40 (int); PL5	
D41	MB3	PL4	
D42	MB3	PL4	
D43	NWT3	E34 (int); PL4	
D44	NWT3	E31 (int); PL4	
D45	SWT3	E35 (int); PL5	
D46	G5 (SWT3)	E38 (int); PL5	
D47	G6 (SET3)	E40 (int); PL5	
D48	SWT4	E20 & E35 (int); PL6	
D49	G7 (SWT4)	E38 (int); PL6	
D50	G8 (SET4)	E39 (int); PL6	
D51	Lesser stair/NET4	E26 (int); PL6	
D52	Lesser stair	E30 (int); PL6	
D53	G9 (SWT5)	E38 (int); PL7	
D54	G10 (SET5)	E42 (int); PL7	
D55	SET6	PL8	
D56	SWT6	E36 (int); PL8	

D57	NB1E	E30 (int); PL1	
D58	NWT4	E34 (int); PL5	
D59	MB1	PL1	
D60	Passage MB2-NB2E	PL2	
D61	MB1	PL1	
D62	NWT1/NB2W	E30 (int); PL2	
D63	NET2	E24 (int); PL3	
FP1	MB2	E20 (int); PL2	F5
FP2	MB3	E21 (int); PL4	F2
FP3	MB3	E20 (int); PL4	F4
FP4	SET5	E41 (int); PL7	F1
FP5	SWT1	E35 & E36 (int); PL2	
FP6	NB2W	E29 (int); PL2	F9
FP7	NB3	E30 (int); PL3	
FP8	NB4	E30 (int); PL	
FP9	NB1E	E27 (int); PL1	F3
FP10	NB2W	E28 (int); PL2	
FP11	SWT2	E36 (int); PL4	
FP12	SET2	E42 (int); PL4	
FP13	SWT3	E36 (int); PL5	F8
FP14	SET3	E42 (int); PL5	
FP15	SWT4	E36 (int); PL 6	F7
FP16	SET4	E42 (int); PL 6	
FP17	NWT4	E33 (int); PL5	
FP18	SWT5	E36 (int); PL7	F6

APPENDIX 4
BLACK AND WHITE PHOTOGRAPHIC RECORD

APPENDIX 4: PHOTOGRAPHIC CATALOGUE OF BLACK AND WHITE PRINTS

Film 1: Medium format black and white prints taken 5th March 2004
Film 2: Medium format black and white prints taken 5th March 2004
Film 3: Medium format black and white prints taken 5th March 2004
Film 4: Medium format black and white prints taken 5th March 2004
Film 5: Medium format black and white prints taken 5th March 2004
Film 6: Medium format black and white prints taken 5th March 2004
Film 7: Medium format black and white prints taken 8th April 2004
Film 8: Medium format black and white prints taken 8th April 2004
Film 9: Medium format black and white prints taken 8th April & 28th April 2004

Film 10: Medium format black and white prints taken 28th April 2004
Film 11: Medium format black and white prints taken 28th April 2004
Film 12: Medium format black and white prints taken 28th April 2004
Film 13: Medium format black and white prints taken 28th April 2004
Film 14: Medium format black and white prints taken 28th April 2004
Film 15: Medium format black and white prints taken 10th May 2004
Film 16: Medium format black and white prints taken 10th May 2004
Film 17: Medium format black and white prints taken 10th May 2004
Film 18: Medium format black and white prints taken 18th June 2004
Film 19: Medium format black and white prints taken 18th June 2004

Film 20: Medium format black and white prints taken 18th June & 8th July 2004
Film 21: Medium format black and white prints taken 8th July 2004
Film 22: Medium format black and white prints taken 8th July 2004
Film 23: Medium format black and white prints taken 8th July 2004
Film 24: Medium format black and white prints taken 8th July & 28th July 2004
Film 25: Medium format black and white prints taken 28th July 2004
Film 26: Medium format black and white prints taken 28th July 2004
Film 27: Medium format black and white prints taken 28th July 2004
Film 28: Medium format black and white prints taken 28th July & 5th August 2004
Film 29: Medium format black and white prints taken 5th August 2004

Film 30: Medium format black and white prints taken 3rd September 2004
Film 31: Medium format black and white prints taken 3rd September 2004
Film 32: Medium format black and white prints taken 3rd September 2004
Film 33: Medium format black and white prints taken 3rd September 2004
Film 34: Medium format black and white prints taken 15th October 2004
Film 35: Medium format black and white prints taken 15th October 2004
Film 36: Medium format black and white prints taken 15th October & 8th November 2004
Film 37: Medium format black and white prints taken 8th November 2004
Film 38: Medium format black and white prints taken 8th November 2004
Film 39: Medium format black and white prints taken 8th November 2004

Film 40: Medium format black and white prints taken 8th & 11th November 2004
Film 41: Medium format black and white prints taken 11th November 2004
Film 42: Medium format black and white prints taken 11th November 2004
Film 43: Medium format black and white prints taken 10th December 2004
Film 44: Medium format black and white prints taken 11th January 2005
Film 45: Medium format black and white prints taken 11th January 2005
Film 46: Medium format black and white prints taken 11th January 2005
Film 47: Medium format black and white prints taken 11th January 2005
Film 48: Medium format black and white prints taken 15th February 2005
Film 49: Medium format black and white prints taken 15th February 2005
Film 50: Medium format black and white prints taken 15th February 2005
Film 51: Medium format black and white prints taken 18th April 2005
Film 52: Medium format black and white prints taken 18th April 2005
Film 53: Medium format black and white prints taken 18th April 2005
Film 54: Medium format black and white prints taken 18th April 2005

Film 55: Medium format black and white prints taken 18th April 2005
 Film 56: Medium format black and white prints taken 26th April 2005
 Film 57: Medium format black and white prints taken 26th April 2005
 Film 58: Medium format black and white prints taken 26th April 2005
 Film 59: Medium format black and white prints taken 20th May 2005

Film 60: Medium format black and white prints taken 20th May 2005
 Film 61: Medium format black and white prints taken 26th May 2005
 Film 62: Medium format black and white prints taken 26th May 2005
 Film 63: Medium format black and white prints taken 15th July 2005
 Film 64: Medium format black and white prints taken 15th July 2005

Note: (E) = elevation; orientation based on site north (i.e. long axis north-south)

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
1	1	S25, S side of SET6 (E9), looking NE	2m
1	2	SET6 interior, N side, looking S	2m
1	3	Circular flue N of SW turret, looking SE	0.30m
1	5	Main newel stair from above	-
1	13	Flue from W53 in west wall-walk of MB3, looking NE	2 x 1m
1	15	Flue from W53 in west wall-walk of MB3, looking E	0.30m
1	17	W50 in S exterior of NWT4 (E17), looking N	1m
1	18	Former stairs to SWT5 in west wall-walk of MB3, looking SE	1m
2	1	Scaffolding upper part of E20 (MB3), looking SE	-
2	2	W54 and S17, W exterior of MB3 (E16), looking S	1m
2	3	W54 and W53, W exterior of MB3 (E16), looking N	1m
2	5	W55 and S17, W exterior of MB3 (E16), looking E	1m
2	6	Head of W54, W exterior of MB3 (E16), looking E	1m
2	7	S15, S exterior of NWT4 (E17), looking N	0.30m
2	8	W54, W exterior of MB3 (E16) and W63, N exterior of SWT3 (E15), looking S	1m
2	11	W54 and W53, W exterior of MB3 (E16) and W51, S exterior of NWT3 (E17), looking N	1m
2	12	Top of W56 and S18, W exterior of MB3 (E16), looking E	1m
2	13	W54, W exterior of MB3 (E16), looking NE	1m
2	14	W63, N exterior of SWT3 (E17), looking S	1m
2	15	Cupboard to NE interior of NWT4 (E31), looking N	2m
2	17	D44, NWT3 interior (E31), looking N	-
2	18	W41 and D44, NWT3 interior (E31/34), looking NW	1m
3	1	W56, W exterior of MB3 (E16) and W64, N exterior of SWT2 (E15), looking S	1m
3	3	W64, N exterior of SWT2 (E15), looking S	1m
3	5	W53, W exterior of MB3 (E16), looking N	1m
3	7	Top of W52, S exterior of NWT2 (E17), looking S	1m
3	8	W57 and W58, W exterior of MB2 (E16), looking SE	1m
3	9	Bottom of W52, S exterior of NWT2 (E17), looking N	1m
3	10	Top of W58, W exterior of MB3 (E16), looking SE	1m
3	13	Spandrel detail (animal head) to buffet, W interior of MB2 (E22), looking W	-
3	14	Spandrel detail (flower) to buffet, W interior of MB2 (E22), looking W	-
3	15	Spandrel detail (leaves) to buffet, W interior of MB2 (E22), looking W	-
3	17	Spandrel detail (leaves) to buffet, W interior of MB2 (E22), looking W	-

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
3	18	Spandrel detail (flower) to buffet, W interior of MB2 (E22), looking W	-
4	1	Spandrel detail (flower) to buffet, W interior of MB2 (E22), looking W	-
4	2	Interior of W58, W interior of MB2 (E22), looking SW	1m
4	3	Canopy detail to buffet, W interior of MB2 (E22), looking W	-
4	5	Pinnacle detail to buffet, W interior of MB2 (E22), looking W	-
4	7	Corbel over buffet, W interior of MB2 (E22), looking NW	1m
4	8	Rear arch to W58, W interior of MB2 (E22), looking SW	1m
4	9	N interior of MB2 and MB3 (E19), looking N	-
4	12	D16 to main newel stair, E interior of MB3 (E21), looking NE	-
4	13	D38 in S side of W56, W interior of MB3, looking S	1m
4	14	Cupboard in N side of W56, W interior of MB3, looking N	1m
4	15	Cupboard in N side of W54, W interior of MB3, looking N	1m
4	17	D41 in S side of W54, W interior of MB3, looking S	1m
4	18	N side of W53, W interior of MB3 (E22), looking N	1m
5	1	S side of W53, W interior of MB3 (E22), looking S	1m
5	2	W12 and W13, E interior of MB2 (E21), looking E	-
5	3	Main newel stair, E interior of MB2 (E21), looking E	-
5	5	Rear arch of W58, W interior of MB2 (E22), looking W	1m
5	6	Rear arch of W58, W interior of MB2 (E22), looking NW	1m
5	7	Corbel over buffet, W interior of MB2 (E22), looking NW	2m
5	8	Tops of D41 and W54, W interior of MB3 (E22), looking SW	1m
5	10	W10, E interior of MB3 (E21), looking E	-
5	11	Curved step to D41, in S side of W54, W interior of MB3 (E22), looking S	1m
5	12	S18 in passage from D41 to SWT3, looking W	1m
5	13	Passage to SWT3, looking SW	1m
5	14	Passage from SWT3 to W54, looking N	1m
5	15	Top of W54, W interior of MB3 (E22), looking NW	1m
5	17	Corbel to N of W54, W interior of MB3 (E22), looking NW	1m
5	18	Top of W53, W interior of MB3 (E22), looking SW	1m
6	1	Flue in wall-walk over W53, W side of MB3, looking W	-
6	2	W exterior of NWT4, W interior of MB3 (E22), looking N	1m
6	3	D32, between roof over MB3 next to NWT4, looking N	1m
6	6	Top of E interior of MB3, showing blocked door and roofline (E19), looking NE	-
6	7	SW turret (SWT7), E external, looking NE	2m
6	8	SW turret (SWT7), N external, looking SW	2m
6	9	SW turret (SWT7), W external, looking SW	2m
6	11	SW turret, cruciform arrow slit in W external (SWT7), looking S	1m
6	12	SW turret (SWT7), S external, looking NE	2m
6	13	View of main block and NW tower from SW turret, looking N	-
6	14	SW turret, cruciform arrow slits to interior of SWT7, looking SW	-
6	15	SW turret, cruciform arrow slits to interior of SWT6, looking S	-
6	17	SW turret, D4 to SWT7, looking W	2m
6	18	SW turret (SWT6), E external, looking SW	2m
7	1	SW turret, D56 to SWT6, looking W	-

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
7	2	SW turret, E external, looking W	-
7	4	Wall stub at SE corner of SW turret, looking SW	1m
7	5	Machicolations in wall top on S side of Main Block (E11), looking NE	2m
7	6	Machicolations in wall top on S side of Main Block (E11), looking E	2m
7	7	S21 in wall top on S side of Main Block (E11), looking NE	0.50m
7	8	Machicolations in wall top on S side of Main Block (E11), looking E	2m
7	10	Flue from FP1 in wall top on S Side of Main Block, looking SE	0.50m
7	11	Chimney flue and wall top, N of SE turret (E41), looking E	-
7	12	SET6 (E41 & E42), looking SE	-
7	13	SET6 (E41 & E42), looking SE	-
7	14	Wall top of E side of MB3, looking NE	-
7	16	Wall top of W side of MB3, prior to conservation, looking N	2m
7	17	Wall top of W side of MB3, prior to conservation, looking N	2m
7	18	Battered masonry etc, E end of stairs rising above S end of MB3 (E20), looking W	2m
8	1	View down main newel stair, looking E	-
8	2	Upper part of E end of stairs rising above S end of MB3 (E20), looking E	-
8	3	Wall top of W side of MB3, during conservation, looking NW	2m
8	5	S17 in wall top of W side of MB3 during conservation, looking NW	0.50m
8	6	Remains of parapet wall, W side of MB3, looking S	2m
8	7	Remains of wall-walk, W side of MB3, looking N	0.50m
8	8	Flue from W53 in wall top, W side of MB3, looking W	0.50m
8	9	Wall top and flue from W53, W side of MB3, looking N	-
8	11	W50, S exterior of NWT4 (E17), after conservation, looking N	0.50m
8	12	Flue from W53 in wall top, W side of MB3 during conservation, looking S	0.50m
8	13	D9, exterior of SWT5 and lower part of W end of stairs rising above S end of MB3 (E20), looking S	-
8	14	Wall tops of NWT4, prior to conservation, looking NW	2m
8	15	N end of upper part of E interior of MB3 (E21), looking E	-
8	17	Relieving arch and socket over W76, S interior of MB3 (E20), looking S	-
8	18	Detail of corbelling to lower part of W end of stairs rising above S end of MB3 (E20), looking W	2m
9	1	W interior of MB3 under conservation (E22), looking NW	-
9	2	Garderobe chutes in W77, S interior of MB3 (E20), looking SW	-
9	3	S22 in G8 (SET4), S exterior of Main Block (E11), looking N	0.50m
9	5	Sockets on W inside of W77, interior of MB4 (E20), looking SW	0.50m
9	6	Sockets on E inside of W77, S interior of MB4 (E20), looking SE	0.50m
9	7	Scarring, E of W77, S interior of MB4 (E20), looking S	-
9	8	Head of W53, W interior of MB3 (E22), looking NW	2m
9	9	S shield (Aldeburgh) to outer head of D8, NET3 (E21), looking E	-
9	11	Central shield (Balliol) to outer head of D8, NET3 (E21), looking E	-
9	12	N shield (Aldeburgh) to outer head of D8, NET3 (E21), looking E	-
9	13	W58, W interior of MB2 (E22), after conservation, looking SW	2m
9	14	W58, W interior of MB2 (E22), after conservation, looking NW	2m
9	15	W57, W interior of MB2 (E22), after conservation, looking NW	2m
9	17	W57, W interior of MB2 (E22), after conservation, looking SW	2m
9	18	W57, W exterior of MB2 (E16), after conservation, looking E	1m

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
10	1	W57, W exterior of MB2 (E16), after conservation, looking E	1m
10	2	Stepped base to W57, W interior of MB2 (E22), after conservation, looking W	1m
10	3	Base of W58, W interior of MB2 (E22), after conservation, looking W	1m
10	5	W53 and W54, W exterior of MB3 (E16), after conservation, looking S	2m
10	6	Jamb of W54, W exterior of MB3 (E16), after conservation, looking S	2m
10	7	Sockets over W56, W interior of MB3 (E22), looking N	2m
10	8	Cupboard in N side of W54, W interior of MB3 (E22), looking N	2m
10	9	D41 in S side of W54, W interior of MB3 (E22), looking S	2m
10	11	Stepped base to W54, W interior of MB3 (E22), looking W	2m
10	12	W54 after conservation, W interior of MB3 (E22), looking W	2m
10	13	W54, W exterior of MB3 (E16), after conservation, looking S	2m
10	14	Flue in head of W53, W interior of MB3 (E22), after conservation, looking W	-
10	15	Flues in head of W53, W interior of MB3 (E22), after conservation, looking W	-
10	17	Head of W53, W interior of MB3 (E22), after conservation, looking NW	2m
10	18	Head of W53, W interior of MB3 (E22), after conservation, looking SW	2m
11	2	Interior of SE tower (SET3 lowest level in foreground) (E41), looking E	-
11	3	SWT5, corbels over S wall (E37), looking S	2m
11	5	SWT5, relieving piece over D9 (E35), looking N	1m
11	6	W69 in SWT5 (E37), looking S	2m
11	7	W66 and FP18, SWT5 (E36), looking W	2m
11	8	W61 in SWT5 (E35), looking N	2m
11	9	D9 in SWT5 (E35), looking N	2m
11	12	Graffiti to W wall of G9 (SWT5), looking NW	1m
11	13	Seat and W73 in G9 (SWT5), looking S	1m
11	14	Seat to G9 (SWT5), looking S	0.30m
11	15	D48 in SWT4 (E35), looking N	-
11	18	S23 in G7 (SWT4), looking E	0.30m
12	1	Sockets in E side of W76, S interior of MB4 (E20), looking NE	2m
12	2	W76, cupboard to W side made into doorway, S interior of MB4 (E20), looking SW	2m
12	4	Sockets in E wall of W76, S interior of MB4 (E20), looking SE	2m
12	6	Ceiling of W76, S interior of MB4 (E20), looking S	-
12	7	W73, S external of G9 (SWT5) (E11), looking N	2m
12	8	W75 and blocked window to W, S exterior of Main Block (E11), looking N	2m
12	9	Underside of corbelled machicolations, S exterior of Main Block (E11), looking E	-
12	11	Passage from D21 (MB3) to D39 (SET2), looking E	2m
12	12	Passage from D21 (MB3) to D39 (SET2), looking W from D39 to D21	2m
12	13	Passage from D21 (MB3) to D39 (SET2), D39 from G4, looking N	2m
12	14	Passage from D21 (MB3) to D39 (SET2), view up stairs to G4, looking S	2m
12	15	Passage from D21 (MB3) to D39 (SET2), view up stairs to G4, looking S	2m
12	17	Sink at base of garderobe seat in G4 (SET2), looking W	1m
12	18	Sink at base of garderobe seat G4 and steps down to D39, looking W	1m
13	1	W81 and seat in G7 (SWT4), looking W	1m
13	2	View down chute of G7 (SWT4), looking W	-

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
13	4	W67 and FP15 in SWT4 (E36), looking W	2m
13	5	Cupboard in S side of W67 in SWT4 (E37), looking SW	2m
13	6	D48 and W62 in SWT4 (E37), looking N	2m
13	7	Cupboard in E side of W70, SWT4 (E37), looking S	2m
13	8	Machicolations in wall top of Main Block (E11) under conservation, looking E	2m
13	10	W71 in SWT3 (E37), looking S	-
13	11	W63 and D45 in SWT3 (E35), looking N	2m
13	12	W79 in G5 (SWT3), looking SE	1m
13	13	Modern graffiti in G5 (SWT3), looking N	1m
13	16	Seat to G5 (SWT3), looking SW	1m
13	17	Joist holes to E wall of SWT3 (E38), looking E	2m
13	18	View up FP13 in SWT3, looking W	-
14	1	W68 in SWT2 (E36), looking N	1m
14	2	Cupboard in G3 (SWT2), looking SE	1m
14	3	W80 in G3 (SWT2), looking S	1m
14	5	Iron door to passage to G3 from SWT2, looking E	1m
14	6	Iron door to passage to G3 from SWT2, looking E	1m
14	7	Drain to full height recess in SWT2 (E37), looking S	1m
14	8	FP11 in SWT2 (E36), looking W	0.30m
14	12	FP5 and W65 in SWT1 (E35/E36), looking NW	2m
14	13	Sink in SE corner of SWT1 (E38), looking E	0.30m
15	1	SW turret (SWT6 and SWT7) after conservation, looking SW	1m
15	2	SW turret (SWT6 and SWT7) after conservation, looking W	1m
15	3	Circular flue to N of SW turret after conservation, looking SE	1m
15	5	SW turret, D4 in N side of SWT7, after conservation, looking S	-
15	6	SW turret, cruciform arrow slits to SWT7, looking SW	-
15	9	SW turret, D4 in N side of SWT7, looking S	-
15	11	SW turret, cruciform arrow slit in W side of SWT6 after conservation, looking W	1m
15	12	Machicolations in wall top of Main Block (E11) being re-seeded, looking E	1m
15	14	SET6 (E41 & E42), looking SE	-
15	16	SET6 (E41), looking E	-
15	17	Upper end of E part of stairs rising above S end of MB3 (E20), looking E	1m
15	18	Ivy on interior of SET5 (E41), looking E	-
16	1	W74 and blocked window to W, S exterior of MB3 (E11) after conservation, looking NE	2m
16	2	Top of E exterior of G9 (SWT5) (E12) after conservation, looking W	1m
16	5	FP4 and cupboard in SET5 (E41), looking E	-
16	6	W1 and cupboards in SET4 (E41), looking E	-
16	7	W2 and cupboards in SET3 (E41), looking E	-
16	8	Garderobe chutes in top of W77 after conservation and pinning, S interior of MB4 (E20), looking S	-
16	10	Top of W76 after conservation and pinning, S interior of MB4 (E20), looking S	-
16	11	Top of W76 after conservation and pinning, S interior of MB4 (E20), looking S	-
16	12	W side of W76 showing recesses after conservation, looking SW	2m
16	14	D40 and S1 in SET3 (E41), looking E	-

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
16	16	Interiors of SET3 and SET4 (E41), looking E	-
16	17	Interiors of SET3 and SET4 (E41 & E42), looking SE	-
16	18	Interiors of SET3 and SET4 (E42 & E39), looking SW	-
17	2	W5 and S32 in SET1 (E41), looking E	1m
17	5	Base of main newel stair, looking N	1m
17	7	Base of main newel stair, looking N	1m
18	1	N end of roof level, N interior of MB3 (E19), showing roof scar, looking N	2m
18	2	Blocked door at N end of roof level, E interior of MB3 (E21), looking E	2m
18	4	N end of roof level, E interior of MB3 (E21), showing cavity and blocking through to mural stair to NET4, looking E	1m
18	5	N end of roof level, E interior of MB3 (E21), showing cavity and blocking through to mural stair to NET4, looking E	2m
18	6	S3 on wall-walk level, E interior of MB3 (E21), looking E	1m
18	7	S end of roof level, E interior of MB3 (E21), looking NE	1m
18	10	Mural stair to NET4 and D7, looking N	-
18	11	View of stair over S end of MB3 (E20) and SW turret, looking SW	-
18	12	View of stair over S end of MB3 (E20) and SW turret, looking SW	-
18	13	View of stair over S end of MB3 (E20) and SW turret, looking SW	-
18	14	Upper part of NW tower, W interior of MB3 (E22), looking NW	-
18	16	Upper part of N interior of MB3 (E19), showing roof line and D32, looking N	1m
18	17	View to stair over S end of MB3 (E20) and SW tower, looking SW	-
18	18	S shield (Aldeburgh) to outer head of D8, NET3 (E21), looking E	0.10m
19	1	N shield (Aldeburgh) to outer head of D8, NET3 (E21), looking E	0.10m
19	2	Central shield (Balliol) to outer head of D8, NET3 (E21), looking E	0.10m
19	4	W15 and W17 in NET3 (E23 & E25), looking SE	-
19	5	W17 and W18 in NET3 (E23 & E24), looking NE	-
19	6	Head of W54, W interior of MB3 (E22), looking S	2m
19	7	Detail of shield and corbel to N side of W54, W interior of MB3 (E22), looking SE	2m
19	8	W54, W interior of MB3 (E22), after conservation, looking W	-
19	10	W10, E interior of MB3 (E21), looking E	-
19	11	D42 in N side of W10, E interior of MB3 (E21), looking NE	-
19	12	W17 and altar recess, NET3 (E23), looking E	-
19	13	FP2, E interior of MB3 (E21), looking NE	2m
19	14	Cupboard in S side of W10, E interior of MB3 (E21), looking SE	2m
19	16	D42 in N side of W10 with stair to NET4, E interior of MB3 (E21), looking N	2m
19	17	S end of MB3 (E20) showing FP3 and W56 after conservation, looking SW	-
19	18	Interior of lesser stair, upper level, looking NW	-
20	1	Corbel to N of W13, E interior of MB2 (E21), looking SE	1m
20	2	Head of W13, E interior of MB2 (E21), looking SE	2m
20	4	Hacked out mural passage leading from NET2, looking S	-
20	5	Opening? cut through in lesser stair, E interior of MB3 (E21), looking N	2m
20	6	First floor corbels, E interior of MB2 (E21), looking N	2m
20	7	Base of W53, W interior of MB3 (E22) after conservation, looking NW	-
20	8	W13, E interior of MB2 (E21), looking E	2m

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
20	10	D15 in N side of W13, E interior of MB2 (E21), looking NE	2m
20	13	Wall-walk/roof level, E side of MB3, during conservation, looking NE	2m
20	14	S2 in wall-walk/roof level, E side of MB3, during conservation, looking E	1m
20	16	Wall-walk/roof level, E side of MB3, during conservation, looking S	2m
20	17	Wall-walk/roof level, E side of MB3, during conservation, looking NE	2m
20	18	SET6 (E41), after conservation, looking SE	2m
21	1	Flue and wall to N of SET6 (E41), looking NE	2m
21	2	Interior of SET6 (E41 & E42), after conservation, looking SE	1m
21	4	Corbels over SET5 (E41), looking E	2m
21	5	Head of W83, SET5 (E42), looking S	2m
21	6	Corbelling over W82, SET5 (E39), looking W	2m
21	7	FP4 in SET5 (E41), looking E	2m
21	8	W83 and corner cupboard in SET5 (E42 & E41), looking SE	2m
21	13	W82 and D54 to G10, SET5 (E39), looking W	2m
21	14	G10 passage from SET5, looking W	2m
21	16	G10 passage from SET5 with S33, looking E	2m
21	17	W74 and seat to G10 (SET5), looking S	1m
21	18	W74 in G10 (SET5), looking S	1m
22	1	S33 in G10 passage, SET5, looking N	1m
22	2	D40 and W2, SET3 (E41), looking NE	1m
22	4	Head of FP14 and W85 in SET3 (E42), looking S	2m
22	5	D47 to G6 from SET3 (E39), looking SW	2m
22	7	W78 and seat to G6 (SET3), looking S	1m
22	8	Seat and chute to G6 (SET3), looking S	1m
22	10	Ceiling slabs over G6 (SET3), looking N	-
22	11	Base of corner cupboard in SET4 (E41), looking NE	2m
22	12	W1 and cupboard in SET4 (E41), looking SE	2m
22	13	Base of full height recess in SET4 (E40), looking NE	2m
22	14	Corner cupboard in SET4 (E41), looking NE	2m
22	16	FP12 and cupboard in SET2 (E42), looking S	2m
22	17	D39 in SET2 (E39), looking W	2m
22	18	FP12 in SET2 (E42), looking S	1m
23	1	S33 in passage to G10 (SET5), looking N	1m
23	2	SET4, upper part with beam recess (E39), looking SW	2m
23	4	SET4, cut back to upper part of W wall (E39), looking W	1m
23	5	FP16 and W84 in SET4 (E42), looking S	2m
23	6	W1 and corner cupboard in SET4 (E41), looking SE	2m
23	7	W1 and full height recess in SET4 (E41), looking NE	2m
23	8	Seat in G8 (SET4), looking SW	1m
23	10	W75 in G8 (SET4), looking S	1m
23	12	W75 and S22 in G8 (SET4), looking S	1m
23	13	W7 in main newel stair from SET4, looking N	2m
23	16	Panelling studs to FP16 in SET4 (E42), looking S	1m
23	17	Former step positions in main newel stair (E41), looking NE	2m
23	18	W3 and D40 (SET3) from main newel stair (E41), looking E	2m

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
24	1	W83, exterior of SE tower (E9), after conservation, looking NW	1m
24	4	W83, exterior of SE tower (E9), after conservation, looking NE	1m
24	13	Base of D63 and W19 in NET2 (E24), looking N	2 x 1m
24	14	Head of D2 and portcullis slots in NET1 (E23), looking E	2m
24	16	Base of W16 and floor sockets in NET2 (E25), looking S	2m
24	17	D15 and hacked through passage to MB2 from NET2, looking S	1m
24	18	Lesser newel stair, from NET2, looking NW	2m
25	1	D6 off lesser newel stair to NET2, looking NW	2m
25	2	Portcullis slot and recesses in NE interior of NET2 (E23/E24), looking NE	2m
25	4	Head of W16 and portcullis slot, NET2 (E23/E25), looking SE	2m
25	5	W16 and S4 in NET2 (E25), looking S	0.30m
25	6	W16 in NET2 (E25), looking S	0.30m
25	7	Portcullis slot and recesses in NE interior of NET2, looking NE	1m
25	8	W18 in NET3 (E24), looking N	2m
25	11	Cupboard in E side of W18, NET3 (E24), looking NE	2m
25	12	Altar recess beneath W17 in NET3 (E23), looking E	1m
25	13	SE interior of NET3 showing cupboards etc (E23/E25), looking SE	2m
25	14	W15 and full height recess in NET3 (E25), looking S	2m
25	16	W15 and full height recess in NET3 (E25), looking S	2m
25	17	W15 and full height recess in NET3 (E25), looking S	2m
26	1	N exterior side of SE tower (E7) after conservation, looking S	2m
26	2	W10 in E exterior of MB3 (E6) and W15 in S exterior of NET3 (E5), looking N	2m
26	4	W10 in E exterior of MB3 (E6) after conservation, looking SW	1m
26	5	W11 and W15 in S exterior of NET3 (E6/E5) after conservation, looking NW	1m
26	6	Shields over W18 in NET3 (E24), looking N	1m
26	7	Shields over W15 in NET3 (E25), looking S	1m
26	8	Shields over inside of D8 in NET3 (E26), looking W	1m
26	10	Shields over W18 in NET3 (E24), looking N	0.50m
26	11	Central shield (Aldeburgh) to rear arch of W18 in NET3 (E24), looking N	0.50m
26	12	Shields (Constable & Roos?) to E of rear arch of W18 in NET3 (E24), looking N	0.50m
26	13	Shield (Aldeburgh) to E of rear arch of W18 in NET3 (E24), looking N	0.50m
26	14	Shield (Aldeburgh) to N of W17 in NET3 (E23), looking E	0.50m
26	16	Shield (Aldeburgh) to S of W17 in NET3 (E23), looking E	0.50m
26	17	Shields (Thweng & Bordesley/Grauncester) to E of rear arch of W15 in NET3 (E25), looking S	0.50m
26	18	Central shield (Aldeburgh) to head of rear arch of W15 in NET3 (E25), looking S	0.50m
27	1	Central shield (Aldeburgh) to head of rear arch of D8 in NET3 (E26), looking W	0.50m
27	2	Shield (Vipont) to N of rear arch of D8 in NET3 (E26), looking W	0.50m
27	5	Central shield (Balliol) to head of rear arch of W17 in NET3 (E23), looking E	0.50m
27	6	Shield (Aldeburgh impaling Sutton) above W15 in NET3 (E25), looking N	-
27	7	D7, NET4 (E25), looking S	1m
27	8	Looking down passage from D7 (NET4), looking S	1m

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
27	10	Cupboard in west wall of NET4 (E26), looking W	1m
27	11	Remains of W87 in NET4 (E24), looking N	1m
27	12	D51 inserted from lesser newel stair to NET4, looking NW	1m
27	13	Sink S5 adjacent to D51 in NET4 (E24), looking N	0.50m
27	14	Wall-walk after conservation, E side of MB3, looking SE	1m
27	16	Wall-walk after conservation, E side of MB3, looking NE	1m
27	17	Drain on wall top on S side of NB4, passing through lesser newel stair and into S6, looking W	-
27	18	Drain on wall top on S side of NB4, passing through lesser newel stair and into S6, looking W	-
28	1	W side of NB2W and NB1W (E29), looking W	-
28	2	W35 and associated features in NB2E (E28), looking NW	-
28	4	W side of NB2W and NB1W (E29), looking W	-
28	5	W35 and S10 in NB2E (E29), looking N	-
28	13	Apex of roof line, N interior of MB3 (E19), looking NE	1m
28	14	Sockets to upper part of N interior of MB3 (E19), looking E	2m
28	16	Sockets to upper part of N interior of MB3 (E19), looking W	2m
28	17	Sockets to upper part of N interior of MB3 (E19), looking E	2m
28	18	Passage from D18 looking down to D3, looking W	2m
29	1	Inside of D3 from passage from D18 (E34), looking W	2m
29	2	W52 in NWT2 (E33), looking s	-
29	4	Detail of securing mechanism for D19, N interior of MB3 (E19), looking NW	1m
29	5	Ogee recess, main newel stair where enters MB3, looking N	0.10m
29	6	Ogee recess and W9, main newel stair where enters MB3, looking NE	1m
29	7	Soffit of arch of W10, E interior of MB3 (E21), showing pinning during conservation, looking SE	-
29	8	Sockets to lower part of N interior of MB3 (E19), looking E	2m
29	10	D18, N interior of MB3 (E19), looking NW	1m
29	11	Inset step at floor level, N interior of MB3 (E19), looking NW	2m
29	12	N interior of MB2 (E19), looking NW	2m
29	13	D11 and D10, N & W interior of MB2 (19/E22), looking NW	2m
29	16	N label stop to hood mould, E side of D5 in NET1 (E26), looking NW	-
30	1	Corbelling over W82 and D54 in SET5 (E39), after conservation, looking W	1m
30	2	Cupboard in SE interior of SET5 (E41), after conservation, looking SE	2m
30	3	W82 and D54 in SET5 (E39), after conservation, looking W	2m
30	5	Base of W82 in SET5 (E39), after conservation, looking W	1m
30	7	W74 and seat in G10 (SET5), after conservation, looking S	1m
30	8	Head of W1 in SET4 (E41), after conservation, looking E	2m
30	9	Recess and head of D50 in SET4 (E39), after conservation, looking W	2m
30	11	Base of W84 in SET4 (E42), after conservation, looking S	1m
30	12	Base of full height recess and sockets in SET4 (E40), after conservation, looking NE	1m
30	14	Sink recess and W2 in SET3 (E41), after conservation, looking E	2m
30	15	W85 and FP14 in SET3 (E42), looking S	2m
30	17	D40 off main newel stair to SET3 (E24), after conservation, looking S	2m
30	18	W3 off main newel stair, after conservation, looking E	2m

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
31	1	Upper part of mural stair to SET3, showing pinning during conservation, looking S	2m
31	2	Corbel to N of W54, W interior of MB3 (E22), after conservation, looking NW	2m
31	3	Typical recess to N interior of MB3 (E19), after conservation, looking N	0.10m
31	5	Recesses to N interior of MB3 (E19), after conservation, looking W	2m
31	6	FP2, E interior of MB3 (E21), after conservation, looking NE	2m
31	7	Base of D42 in N side of W10, E interior of MB3 (E21), after conservation, looking NE	2m
31	8	Mural stair to NET4 from D42, E interior of MB3 (E21), after conservation, looking N	2m
31	11	D1 and W3, main newel stair, after conservation, looking E	2m
31	12	S side of passage from D1 to main newel stair, after conservation, looking SE	2m
31	13	Joist recesses to S interior of MB3 (E20), after conservation and reseeding, looking S	1m
31	14	Corbel to N of W13, E interior of MB2 (E21), after conservation, looking NE	2m
31	18	Corework at head of W12 and main newel stair, E interior of MB2 (E21), after conservation, looking NE	2m
32	1	D12, N interior of MB2 (E19), after conservation, looking NW	2m
32	2	W side of D11, N interior of MB2 (E19), after conservation, looking NW	2m
32	4	Inside of W13, E interior of MB2 (E21), after conservation, looking SE	2m
32	5	Flues in S wall over NB4 (E30), showing drain, looking SW	-
32	6	D52, from wall-walk over E end of NB4 (E30), looking S	-
32	7	Corbelling to top of E exterior wall of North Block, adjacent to D52, looking S	2m
32	8	S6 in E internal wall of North Block (E2), looking W	2m
32	10	View into NET4, looking SW	2m
32	11	W9 and W10, E exterior of MB3 (E6), looking SW	-
32	12	Relieving arch over W18, N exterior of NET3 (E3), looking S	2m
32	13	W23, E exterior of North Block (E2), looking S	2m
32	14	Glazing to upper lights of W23, E exterior of North Block (E2), looking S	1m
32	16	Shields flanking W17, E exterior of NET3 (E4), looking N	2m
32	17	Shield to S of W17 (Aldeburgh), E exterior of NET3 (E4), looking W	0.50m
32	18	Shield to N of W17 (Balliol), E exterior of NET3 (E4), looking NW	0.50m
33	1	Oak leaf to inscription above W17, E exterior of NET3 (E4), looking W	0.10m
33	2	W18 and W22, N exterior of NET3 (E3), looking W	2m
33	3	Detail of jamb to W24, E exterior of NB3 (E2), looking S	2m
33	5	Detail of jamb and exterior chamfer to W24, E exterior of NB3 (E2), looking N	0.10m
33	6	W24, E exterior of NB3 (E2), looking SE	2m
33	7	W26, E exterior elevation of lesser newel stair (E2), looking W	2m
33	8	W20, N exterior of NET1 (E3), looking S	1m
33	9	W21 and plinth, N exterior of NB1E/NB2E (E2/E3), looking SW	2m
34	2	Wall top, E side of NET4 during conservation, looking S	2m
34	4	Wall top, E side of NET4 during conservation, looking N	2 x 1m
34	5	Wall top, E side of NET4 during conservation, looking SW	1m
34	6	S7 in wall-walk, E side of NB4, during conservation, looking N	1m
34	7	Steps down from D52 to wall-walk, E side of NB4, looking S	1m

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
34	8	Wall-walk, S side of NB4 during conservation, looking W	1m
34	10	Central shield to rear arch of D8 (Aldeburgh) in NET3 (E26), after conservation, looking W	0.50m
34	11	Central shield (Aldeburgh) to rear arch of W15 in NET3 (E25), after conservation, looking S	0.50m
34	12	W15 and cupboard to E in NET3 (E25), after conservation, looking SE	2m
34	13	W18 and cupboard to E in NET3 (E24), after conservation, looking NE	2m
34	14	Hacked through passage from NET2 to D2, E interior of MB2 (E21), after conservation, looking S	2m
34	16	Walling above D5 in NET1 (E26), after conservation, looking E	2m
34	17	Walling above D5 in NET1 (E26), after conservation, looking E	2m
34	18	D52 and wall-walk, E side of NB4, during conservation, looking S	1m
35	1	D52 and wall-walk, E side of NB4, during conservation, looking S	1m
35	4	Moulding to W23, E exterior of NB4 (E2), looking S	2m
35	5	D14 to main newel stair, E side of MB2 (E21) after conservation, looking E	2m
35	6	D14 to main newel stair, E side of MB2 (E21) after conservation, looking E	2m
35	7	Steps to ground floor of main newel stair from D14, after conservation, looking E	1m
35	8	Steps to ground floor of main newel stair from D14, after conservation, looking E	1m
35	10	Steps to ground floor of main newel stair from D14, after conservation, looking E	1m
35	11	S32 and W5 in SET1 (E41), after conservation, looking E	1m
35	12	S32 and W5 in SET1 (E41), after conservation, looking E	1m
35	13	S side of SET2, SET3 and SET4 (E42) after conservation, looking S	-
35	14	E side of SET2, SET3 and SET4 (E41) after conservation, looking E	-
35	16	NE interiors of SET2, SET3 and SET4 (E40/E41) after conservation, looking NE	-
35	17	W side of SET2, SET3 and SET4 (E39) after conservation, looking W	-
35	18	Main newel stair from MB3 after conservation (E21), looking SE	-
36	1	E interior of MB3 (W10 and FP2), after conservation, looking E	-
36	14	Stairs over S end of MB3 (E20), after conservation, looking SE	-
36	15	Stairs over S end of MB3 (E20), after conservation, looking SE	-
36	17	Wall tops of NW tower, during conservation, looking NE	2m
36	18	S26 in wall top, W side of NW tower (E18), during conservation, looking NE	0.30m
37	1	S26 in wall top, W side of NW tower (E18), during conservation, looking E	0.30m
37	2	Wall-walks, W and N sides of NB4, during conservation, looking NE	1m
37	4	Wall-walk of NW side of NB4, during conservation, looking N	1m
37	5	S27 in W exterior of NB4 (E18), looking N	2m
37	6	Detail of wall-walk stones, NW corner of NB4, during conservation, looking NE	1m
37	7	S28 in wall-walk, NW side of NB4 (E18), during conservation, looking E	0.30m
37	8	S28 and wall-walk of N side of NB4, during conservation, looking E	1m
37	10	S28 in wall-walk, NW side of NB4 (E18), during conservation, looking E	0.30m
37	11	Flues in S wall over NB4 (E30), looking S	-
37	12	Upper light jamb of W30, N exterior of NB4 (E1), looking SE	2m
37	13	Upper light jamb of W30, N exterior of NB4 (E1), looking SW	0.30m
37	14	Upper light jamb of W31, N exterior of NB4 (E1), looking SE	1m

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
37	16	Lower light jamb of W31, N exterior of NB4 (E1), looking SW	1m
37	17	W41 in W exterior of NWT3 (E18), looking E	1m
37	18	Chamfered offset beneath W30 and W31, N exterior of NB4 (E1), looking W	2m
38	1	Chamfered offset beneath W40, W exterior of NB4 (E1), looking S	2m
38	2	Head of W42, W exterior of NB3 (E18), looking E	2m
38	14	W43, W exterior of NWT2, looking SE	2m
39	8	S9 and W32, N exterior of NB3 (E1), looking SW	2m
39	17	N exterior of NB3 (E1), looking SW	2m
39	18	W34, N exterior of NB3 (E1), looking SE	0.30m
40	6	Chamfered plinth to base of W exterior of North Block (E18), looking S	0.50m
40	7	Chamfered plinth to base of W exterior of North Block (E18), looking N	0.50m
40	13	Interior of D3 and passage from D18, looking W	2m
40	14	D3 and D33 from passage from D18 (NWT2), looking SW	2m
40	16	Bases of D3 and D33 from passage from D18 (NWT2), looking W	2m
40	17	D23, in N side of passage from D18 to D3, looking NW	2m
40	18	View up passage from D23 to D18, looking E	2m
41	1	View down passage from D18 to D3, looking W	2m
41	2	Ceiling slabs of passage from D18 to D3, looking W	-
41	4	D23, in N side of passage from D18 to D3, looking N	2m
41	7	Bars and jamb of W34, N exterior of NB3 (E1), looking SW	1m
41	8	Sinks in passage from G2 (NB3), looking E	2m
41	12	Passage to G2 (NB3), looking W	2m
41	13	S9 in passage to G2 (NB3), looking N	0.30m
41	14	Sink in base of W32, in passage to G2 (NB3), looking N	0.30m
41	16	Seat of G2 (NB3), looking S	1m
41	17	Scratched marks over cupboard in G2 (NB3), looking W	-
41	18	Typical mason's mark in G2 (NB3), looking N	-
42	1	W43, W exterior of NWT2 (E18), looking SE	2m
42	2	D3, W exterior of NWT2 (E18), looking E	2m
42	4	Base of W42, W exterior of NB3 (E18), looking E	1m
42	5	Lower jambs of W42, W exterior of NB3 (E18), looking N	1m
42	6	Lower jambs of W42, W exterior of NB3 (E18), looking SW	0.30m
42	7	Mullion of W42, W exterior of NB3 (E18), looking NE	0.30m
42	8	W44, W exterior of NB2W (E18), looking NE	0.30m
42	10	W45, W exterior of NB2W (E18), looking SE	0.30m
42	11	Steps to D3, W exterior of NWT2 (E18), looking E	0.30m
42	12	W46, W exterior of NWT1 (E18), looking SE	0.30m
43	1	Chamfered offset beneath W40, W exterior of North Block (E18), after conservation, looking S	2m
43	2	Chamfered offset beneath W40, W exterior of North Block (E18), after conservation, looking N	2m
43	4	W44, W exterior of NB2W (E18) after conservation, looking NE	2m
43	5	W42, W exterior of NB3 (E18) after conservation, looking SE	2m

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
43	6	Historic repointing to N elevation of North Block (E1), looking S	-
43	7	S14, N exterior of NB2W (E1), looking E	1m
43	13	S and E sides of SE tower (E8/9) after conservation, looking N	-
43	14	S and E sides of SE tower (E8/9) after conservation, looking N	-
43	15	E side of Middle Block and NE tower (E6/5/4) after conservation, looking NW	-
43	17	'Garden' earthworks from wall-walk level, N side of NB4, looking N	-
43	18	'Garden' earthworks from wall-walk level, N side of NB4, looking NW	-
44	13	Wall-walk on N side of NB4, during conservation, looking NW	2m
44	14	S wall over NB4 (E30), showing flues, looking S	2m
44	16	Drain along S roof slope of NB4 (E30), running into lesser newel stair, looking E	1m
44	17	Flue structures in S wall above NB4 (E30), looking SW	1m
44	18	Head of W30, N interior of NB4 (E28), looking N	2m
45	2	Head of W30, N interior of NB4 (E28), looking NE	2m
45	3	Head of D26, S interior of NB4 (E30), looking S	1m
45	5	Upper lights of W23, E interior of NB4 (E27), looking E	1m
45	6	Base of W23, E interior of NB4 (E27), looking E	1m
45	8	Base of W30 showing window seat, N interior of NB4 (E28), looking N	2m
45	9	Base of W31 showing window seat, and cupboard to W, N interior of NB4 (E28), looking N	2m
45	11	D28 and D26, SE interior of NB4 (E27/E30), looking SE	2m
45	12	FP8 and recess to E, S interior of NB4 (E30), looking SW	1m
45	13	Sink leading to S8, N interior of NB4 (E28), looking N	0.30m
45	15	Seat and lower lights of W30, N interior of NB4 (E28), looking NW	0.50m
45	17	D28 off lesser stair, E interior of NB4 (E27), looking SE	1m
45	18	D29, N interior of NB3 (E28), looking NE	2m
46	1	W24, E interior of NB3 (E27), looking E	2m
46	2	D23, S interior of NB3 (E30), looking S	1m
46	4	FP7, S interior of NB3 (E30), looking S	1m
46	5	FP7, S interior of NB3 (E30), looking S	1m
46	6	Corbelling to head of W42, W interior of NB3 (E29), looking SW	1m
46	7	Joist sockets and head of W35, N interior of NB2E (E28), looking NE	2m
46	8	Base of D29 and joist sockets, N interior of NB3 (E28), looking NE	2m
46	9	Base of W34, N interior of NB3 (E28), looking N	2m
46	11	Base of D27, E interior of NB3 (E27), looking E	2m
46	12	Head of D11 with base of FP7 above, S interior of NB2E (E30), looking S	2m
46	13	W35, N interior of NB2E (E28), looking N	2m
46	14	Stricture in W35, N interior of NB2E (E28), looking NW	1m
46	17	Window opening to W35, N interior of NB2E (E28), looking N	1m
47	1	W27, E interior of NB2E (E27), looking E	2 x 1m
47	2	Remains of plaster for sconce, S of W27, E interior of NB2E (E27), looking E	2m
47	4	Two-level cupboard, S interior of NB2E (E30), looking S	2m
47	7	Two-level cupboard and D11, S interior of NB2E (E30), looking SE	2m
47	8	Door head and rear arch of D11, S interior of NB2E (E30), looking S	1m
47	10	FP6, W45 and W44, W interior of NB2W (E29), looking W	-

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
47	11	Sink leading to S14 in FP10, N interior of NB2W (E28), looking N	1m
47	12	Sockets in NE interior of NB1E (E28), looking NE	2m
47	13	Stairs from lesser stair into NB1E, S interior of NB1E (E30), looking S	2m
48	1	Upper lights of W31, N interior of NB4 (E28), looking NW	1m
48	2	Upper light and splay to W31, N interior of NB4 (E28), looking NE	1m
48	4	Sconce position between W30 and W31, N interior of NB4 (E28), looking N	1m
48	5	Remains of small fixings, sconce position between W30 and W31, N interior of NB4 (E28), looking N	0.30m
48	6	Remains of small fixings, sconce position between W30 and W31, N interior of NB4 (E28), looking N	0.30m
48	7	Recess between W30 and W31, N interior of NB4 (E28), looking N	0.10m
48	8	Seat and lower lights to W31, N interior of NB4 (E28), looking NW	1m
48	10	Cupboard to W of W31, N interior of NB4 (E28), looking NW	1m
48	11	Staggered joint in S interior of NB4 (E30), looking S	1m
48	12	Splay and corbel to W24, E interior of NB3 (E27), looking SW	1m
48	13	Corbelling to splay of W42, W interior of NB3 (E29), looking NW	1m
48	14	Head of W42 with corbelling to splay, W interior of NB3 (E29), looking W	2m
48	16	Bread oven, S interior of NB2W (E30), looking SE	-
48	18	Bread oven, S interior of NB2W (E30), looking SE	-
49	2	Well chamber, N interior of NB2W (E28), looking NW	1m
49	4	Recess for winding mechanism in well chamber, N interior of NB2W (E28), looking E	1m
49	5	Shaft to well in well chamber, N interior of NB2W (E28), looking E	1m
49	6	Recesses in W wall of well chamber, looking W	-
49	7	W44, W interior of NB2W (E29), looking W	1m
49	8	Corbelling, NW corner of NB2W (E28), looking N	-
49	10	Cut out damage to E of W36, N interior of NB2W (E28), looking N	1m
49	11	W36, N interior of NB2W (E28), looking W	1m
49	12	Bread oven, S interior of NB2W (E30), looking S	-
49	13	W67 in SWT4 (E36), looking SW	1m
49	14	D49 in SWT4 (E38), looking NE	1m
49	16	W70 in SWT4 (E37), during conservation, looking S	1m
49	17	W70 in SWT4 (E37), during conservation, looking S	1m
49	18	Cupboard in S side of W66, SWT5 (E36), during conservation, looking SW	2m
50	1	FP18 and W61 in SWT5 (E35/E36), during conservation, looking NW	2m
50	2	D9 and D53 in SWT5 (E35/E38), during conservation, looking NE	2m
50	3	W61 in SWT5, during conservation, looking N	1m
51	1	Interior of bread oven, S interior of NB2W (E30), looking SE	1m
51	2	Interior of bread oven, S interior of NB2W (E30), looking SE	1m
51	4	Outer E side of bread oven, S interior of NB2W (E30), looking SE	1m
51	5	Outer E side of bread oven, S interior of NB2W (E30), looking SW	1m
51	6	Opening to bread oven, S interior of NB2W (E30), looking SE	1m
51	7	Upper part and flue of bread oven, S interior of NB2W (E30), looking SE	1m
51	8	Upper part and flue of bread oven, S interior of NB2W (E30), looking SW	1m
51	10	Head of W39 in NWT4 (E34), looking NW	1m

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
51	11	W50 in NWT4 (E33), looking S	1m
51	12	Joist holes in NWT4 (E32), looking NE	1m
51	13	D23, S interior of NB3 (E30), looking S	2m
51	14	D23 and W wall, SW interior of NB3 (E30/E29), looking W	2m
51	16	FP8, S interior of NB4 (E30), looking SW	2m
51	17	Base of FP8, S interior of NB4 (E30), looking SW	2m
51	18	Back of FP8, S interior of NB4 (E30), looking S	1m
52	1	Beam recess, W of FP8, S interior of NB4 (E30), looking SE	1m
52	2	Joist sockets, N interior of NB4 (E28), looking N	2m
52	4	Base of D24, S interior of NB4 (E30), looking S	2m
52	5	W23, E interior of NB4 (E27), looking E	-
52	6	Joggled masonry over FP8, S interior of NB4 (E30), looking SE	2m
52	7	D24 and cupboard to S of W40, SW interior of NB4 (E30/E29), looking W	2m
52	8	Head of D24, S interior of NB4 (E30), looking S	2m
52	10	Cupboard to S of W40, W interior of NB4 (E29), looking NW	2m
52	11	Window seat to W40, W interior of NB4 (E29), looking W	2m
52	12	Upper lights of W40, W interior of NB4 (E29), looking W	-
52	13	Flue from FP8, S wall over NB4 (E30), looking S	2m
52	16	D32, roof level over S side of NB4 (E19/E22), looking S	2m
52	17	Corbelling over D32, S wall over NB4 (E30), looking SE	2m
52	18	Wall-walk over W side of NWT4, looking W	2m
53	1	Corbels to N side of roof , N interior of NWT4 (E31), looking N	2m
53	2	Corbel to S side of roof and flue from FP17, S interior of NWT4 (E33), looking S	2m
53	3	D58 in NWT4 (E34), looking NW	2m
53	5	Passage between NWT3 and NWT4, looking S	2m
53	6	Base of passage between NWT3 and NWT4 with D43, looking S	1m
53	7	Wall recess in NWT3 (E32), looking SE	2m
53	8	D43, showing base of mural stair, in NWT3 (E34), looking W	2m
53	9	W39 in NWT4 (E34), looking W	2m
53	11	Cupboard in NWT4 (E31), looking NE	2m
53	12	FP17 and W50 with S15, NWT4 (E33), looking S	2m
53	13	Sink leading to S15 in W50, NWT4 (E33), looking S	1m
53	14	W86 in NWT4 (E34), looking W	1m
53	15	Joist holes in NWT3 (E31), looking N	2m
53	17	Base of D43 and ceiling over NWT3 (E34), looking SW	2m
53	18	Cupboard in NWT3 (E32), looking E	1m
54	1	Corbelling over W41 in NWT3 (E34), looking SW	1m
54	2	W41 in NWT3 (E34), looking W	2m
54	4	Altered head of D33 in NWT2 (E31), looking N	1m
54	5	Head of W43 and joist sockets in NWT2 (E34), looking W	2m
54	6	Relieving piece over lintel of W52 in NWT2 (E33), looking S	2m
54	7	D34 in NWT2, looking NE	2m
54	8	Base of D44 in NWT3 (E31), looking N	2m
54	10	D24, S interior of NB4 (E30), looking N	2m

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
54	11	D33 in NWT2 (E31), looking NW	2m
54	12	W43 in NWT2 (E34), looking W	2m
54	13	Cupboard in W52, NWT2 (E34), looking W	1m
54	14	W52 in NWT2 (E33), looking S	1m
54	16	Joist holes in NWT2 (E32), looking E	2m
54	17	Wall-walk to SW corner of NB4, with S27, during conservation, looking SW	2 x 1m
55	1	Chamfered plinth to wall-walk level, W of D32 above NB4, during conservation, looking S	2m
55	2	Wall-walk and flue from FP6, W side of NB4, looking N	2m
55	4	W46 in NWT1(E34), looking W	1m
55	5	Arch between NB2W and NWT1, looking SW	2m
55	6	Head of D10 in NWT1 (E32), looking E	2m
55	7	Passage from D22 to NB1W, looking N	2m
55	8	Castle from the N across 'garden' earthworks, looking S	-
56	2	D2, E exterior of NET1 (E4), during conservation, looking W	2m
56	3	W29, E exterior of NB1E (E2), after conservation, looking W	2m
56	4	W21 and N exterior of NET1 (E3), after conservation, looking S	2m
56	6	W37 and S11, N exterior of NB1E (E1), after conservation, looking S	2m
56	7	Chute from G1 (NB1E) and opening, N exterior of NB1E, after conservation, looking S	2m
56	8	Basement level of N exterior of North Block (E1) after conservation, looking SE	2m
56	9	W48, W exterior of NB1W (E18), after conservation, looking NE	2m
56	10	D3, W43 etc, W exterior of NW tower (E18), after conservation, looking SE	2m
56	12	W exterior of Middle Block (E16), after conservation, looking E	2m
56	13	W60 and base of SW tower, W exterior (E16/E15/E14), after conservation, looking SW	2m
56	14	Base of SW tower (E14/E13) after conservation, looking E	2m
56	15	Base of Middle Block (E11) after conservation, looking N	2m
56	16	Base of SE tower (E9/E8) after conservation, looking NW	2m
56	18	Base of E exterior of SE tower (E8) after conservation, looking NW	2m
57	1	Base of Middle Block (E6) after conservation, looking W	2m
57	2	Base of NE tower (E5/E4) after conservation, looking NW	2m
57	4	W exterior of North Block and NW tower (E18) after conservation, looking E	-
57	5	Lower levels of W exterior of North Block and NW tower (E18), after conservation, looking E	-
57	6	W external of Middle Block (E16) after conservation, looking E	-
57	7	W external of North Block and Middle Block (E16 to E18) after conservation, looking NE	-
57	10	W external of SW tower (E14) after conservation, looking E	-
57	11	S external view of castle (E9 to E13) after conservation, looking NE	-
57	12	S external view of castle (E9 to E13) after conservation, looking N	-
57	13	S and E external view of castle (E5 to E13) after conservation, looking NW	-
57	16	E external view of castle (E2 to E8) after conservation, looking NW	-
57	17	E external view of castle (E2 to E8) after conservation, looking NW	-
57	18	E external view of North Block (E2) after conservation, looking W	-

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
58	1	E external view of castle (E4 to E8) after conservation, looking SW	-
58	2	E external view of castle (E2/E3) after conservation, looking SW	-
58	3	N external of North Block (E1) after conservation, looking SE	-
58	5	N external of North Block (E1) after conservation, looking S	-
58	6	Base of W external of North Block (E18) after conservation, looking SE	-
58	7	W external view of North Block and NW tower (E17/E18) after conservation, looking NE	-
58	8	Hacked out S side of NWT3 (E33) during conservation, looking S	1m
58	9	Hacked out S side of NWT3 (E33) during conservation, looking S	1m
58	11	Base of W41 in NWT3 (E34) during conservation, looking W	1m
58	12	Remains of mortar floor? in passage between D44 and D24, NWT3/NB4, looking N	1m
59	1	SW interior of NB4 (E30/E29), after conservation, looking SW	2m
59	2	NW interior of NB4 (E28/E29), after conservation, looking NW	2m
59	4	NE interior of NB4 (E27/E28), after conservation, looking E	2m
59	5	SE interior of NB4 (E27/E30), after conservation, looking SE	2m
59	6	W interior of NB3 (E29), after conservation, looking W	2m
59	7	SE interior of NB3 (E27/E30), after conservation, looking SE	2m
59	8	Pinning to lintel of FP7, S interior of NB3 (E30), after conservation, looking NW	-
59	10	Pinning to lintel of FP7, S interior of NB3 (E30), after conservation, looking NW	-
59	11	Pinning to FP6, W interior of NB2W (E29), after conservation, looking N	-
59	12	Pinning to FP10, NB2W, after conservation, looking N	-
59	13	Base of W24, E interior of NB3 (E27), after conservation, looking NE	2m
59	14	NW interior of NB2W (E28/E29), after conservation, looking NW	2m
59	17	Upper part of bread oven and flue, S interior of NB2W (E30), after conservation, looking SE	2m
60	1	Back of FP10, N interior of NB2W (E28), after conservation, looking NW	2m
60	2	Sink leading to S14, N interior of NB2W (E28), after conservation, looking N	0.50m
60	4	Wall-walk, S end of W side of MB3, looking E	-
60	5	SE tower after conservation, looking across MB3, looking SE	-
60	6	Stair over S end of MB3 (E20), after conservation, looking S	-
60	7	SW tower (D48 & D9) (E20) after conservation, looking S	-
60	8	Sink (S15) in W50, NWT4 (E33), after conservation, looking S	1m
60	12	W50 and FP17 in NWT4 (E33), after conservation, looking S	1m
60	13	Heads of D44 and W41 in NWT3 (E31/E34), after conservation, looking NW	2m
61	1	Heads of FP10 and W36, N interior of NB2W (E28), after conservation, looking N	2m
61	2	W42 and W34, NW interior of NB3 (E28/E29), after conservation, looking NW	2m
61	4	Head of FP10 etc, N interior of NB2W (E28), after conservation, looking NE	2m
61	5	D29, NE interior of NB3 (E28), after conservation, looking NE	2m
61	6	W42, W interior of NB3 (E29), after conservation, looking W	2m
61	7	W interiors of NB3 and NB4 (E29), after conservation, looking W	2m
61	8	Head of W50 in NWT4 (E33), after conservation, looking SW	2m
61	9	Pinning to core, S interior of NWT3 (E33), looking S	2m
61	11	Pinning to core, S interior of NWT3 (E33), looking S	-

<i>Film</i>	<i>Frame</i>	<i>Subject</i>	<i>Scale</i>
61	12	D34 in NWT3 (E31), looking NE	2m
61	13	Pinning to core, S interior of NWT3 (E33), looking S	-
61	15	N interior of NWT2 (E31), after conservation, looking N	2m
61	17	D27, E end of NB3 (E27), after conservation, looking E	2m
61	18	SE interior of NB3/NB4 (E27/E30), after conservation, looking SE	2m
62	1	SE interior of NB3/NB4 (E27/E30) after conservation, looking SE	1m
62	2	W24 and D27, E interior of NB3 (E27) after conservation, looking E	2m
62	5	FP7 and sockets, S interior of NB3 (E30), after conservation, looking SW	2m
62	6	FP7, S interior of NB3 (E30), after conservation, looking SW	2m
63	1	FP10 with new support, N interior of NB2W (E28), after conservation, looking N	-
63	2	NE interiors of NB2E/NB3 (E27/E28), after conservation, looking SE	-
63	3	SE interiors of NB2E/NB3 with bread oven in foreground (E27/E30), after conservation, looking SE	-
63	5	SE interiors of NB2E/NB3 with bread oven in foreground (E27/E30), after conservation, looking SE	-
63	6	E interiors of North Block (E27) after conservation, looking E	2m
63	8	Bread oven and serving hatch, S interior of NB2W (E30), after conservation, looking SW	2m
63	9	FP6, W interior of NB2W (E29), after conservation, looking SW	-
63	11	D11 and two-level wall cupboard, S interior of NB2E (E30), after conservation looking S	2m
63	12	SE interiors of NB3 and NB4 (E27/E30), after conservation looking SE	-
63	13	FP9 and W29, E interior of NB1E (E27), after conservation looking E	2m
63	14	D57 and mural stairs, S interior of NB1E (E30), after conservation looking SE	2m
63	15	W48 and D25, W interior of NB1W (E29), after conservation looking W	2m
63	17	W interiors of North Block (E29), after conservation looking W	2m
63	18	NW interiors of NB1W and NB2W (E28/E29) after conservation, looking NW	2m
64	1	SW interiors of NB1W and NB2W (E29/E30) after conservation, looking SW	2m
64	2	NE interiors of NB1E and NB2E (E27/E28) after conservation, looking E	2m
64	4	SE interiors of NB1E and NB2E (E27/E30) after conservation, looking SE	2m
64	5	New support to FP10, N interior of NB2W (E28), looking N	-
64	6	Vaulting ribs to S interior of NB1W (E30) after conservation, looking E	2m
64	7	S interior of NWT2 (E33) after conservation, looking S	-
64	8	W interior of NWT2/NWT3 (E34) after conservation, looking W	-
64	10	N interior of MB2/MB3 (E19), after conservation, looking N	-



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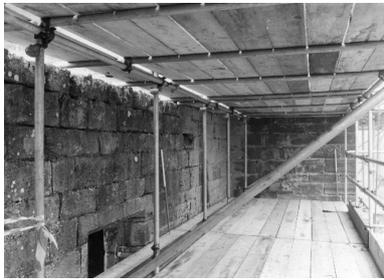
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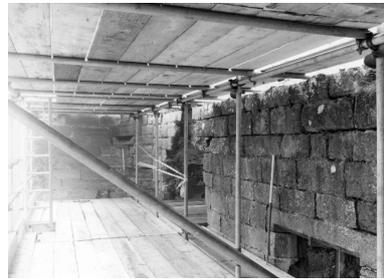
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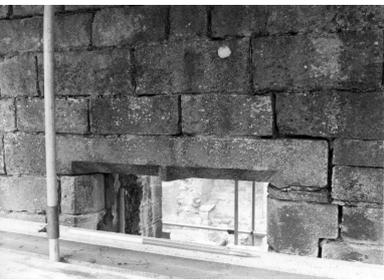
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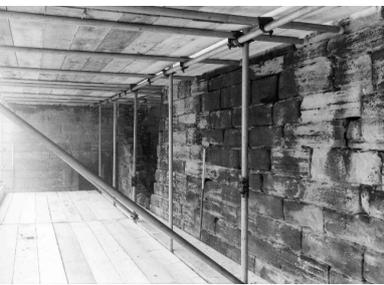
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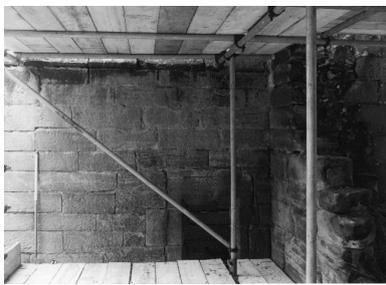
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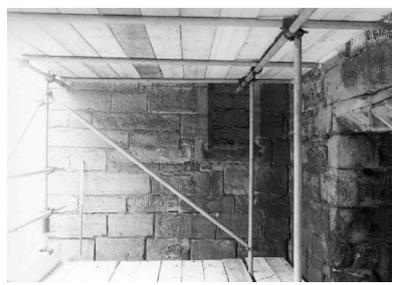
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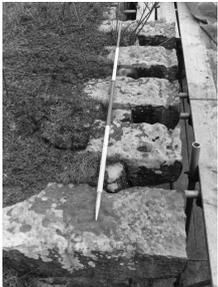
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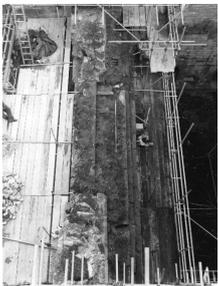
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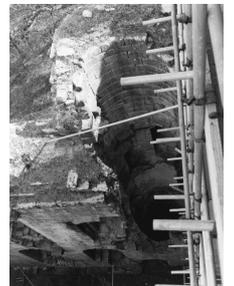
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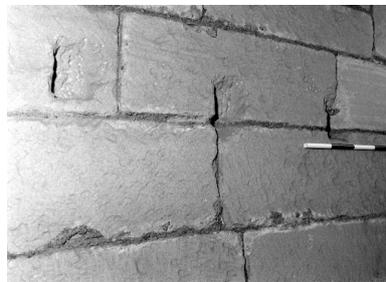
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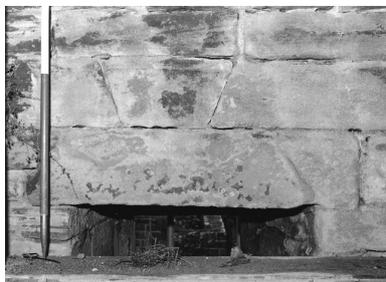
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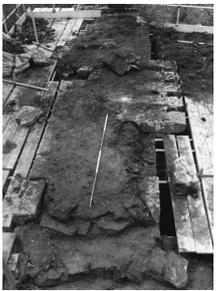
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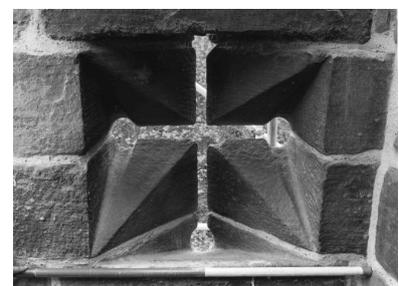
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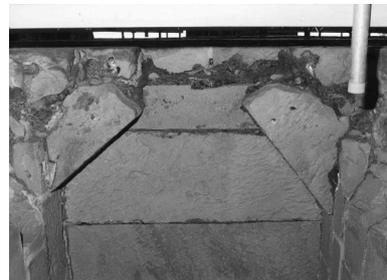
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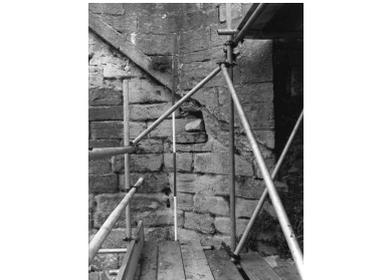
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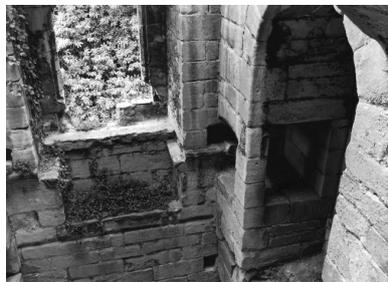
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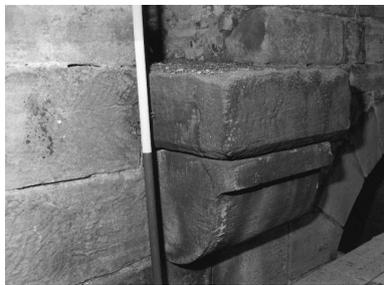
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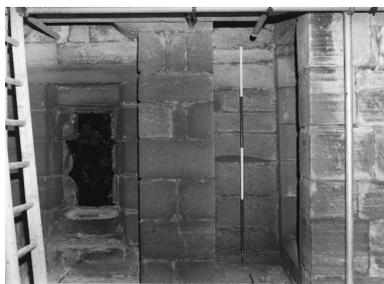
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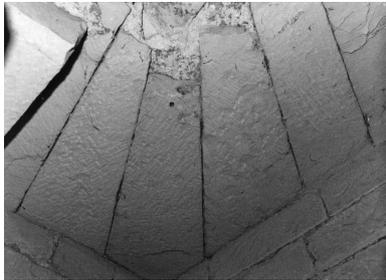
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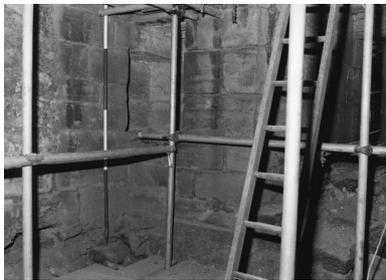
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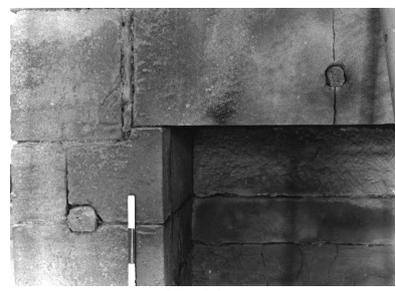
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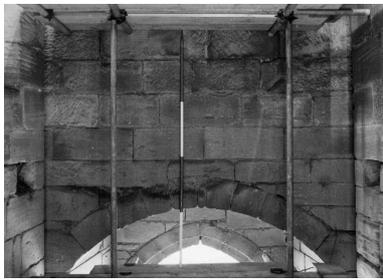
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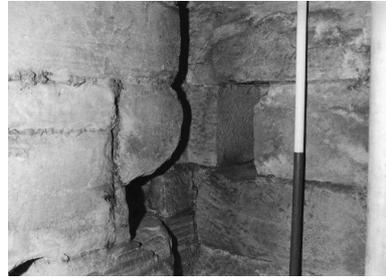
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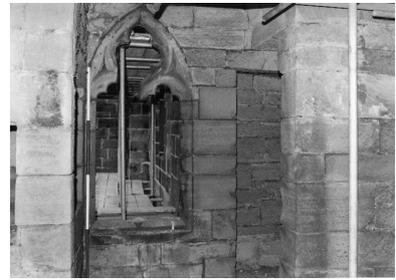
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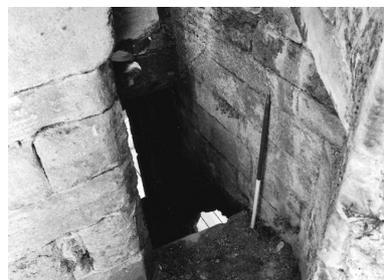
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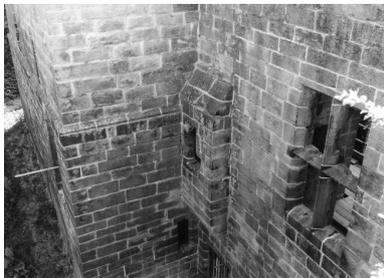
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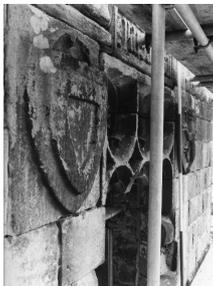
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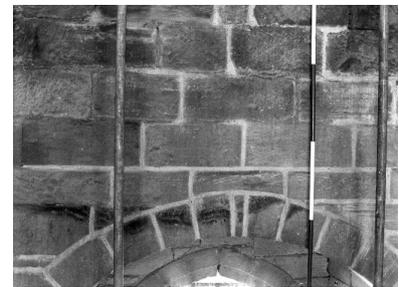
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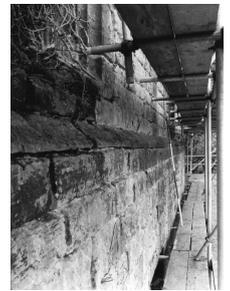
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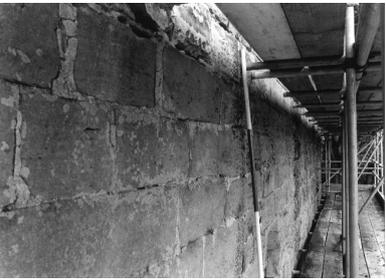
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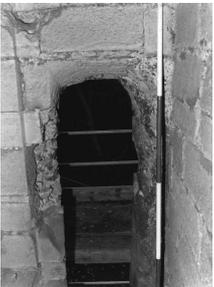
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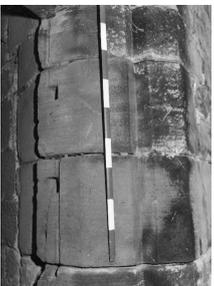
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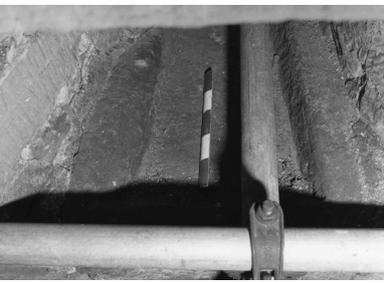
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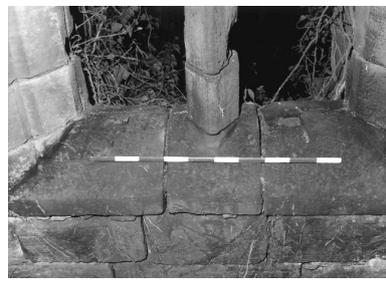
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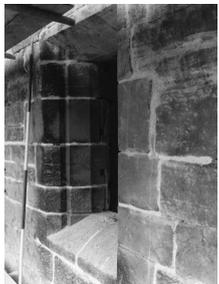
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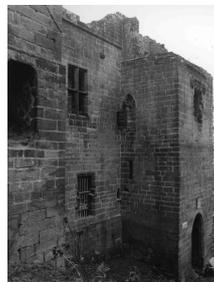
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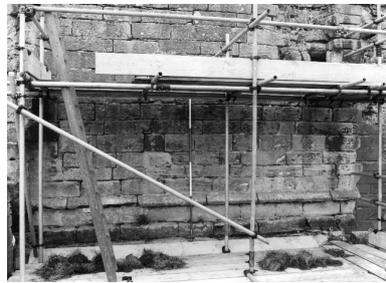
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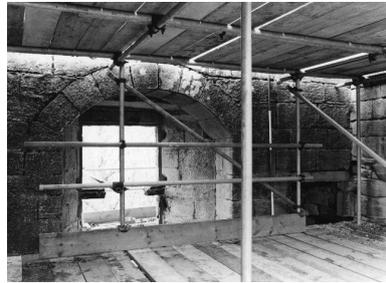
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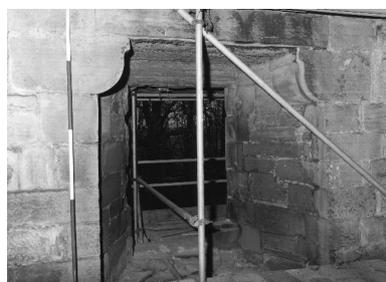
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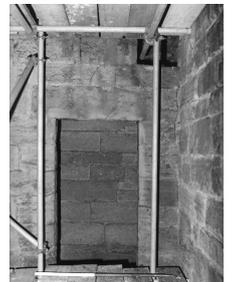
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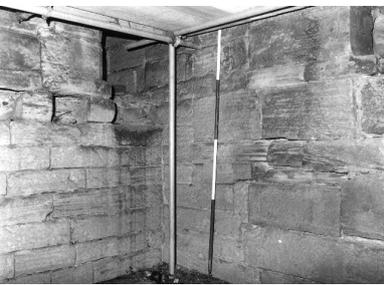
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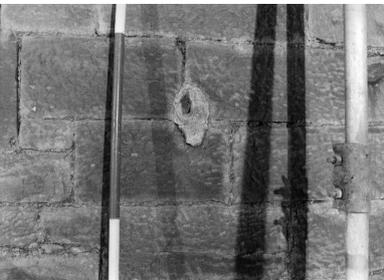
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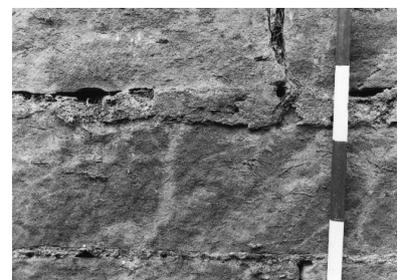
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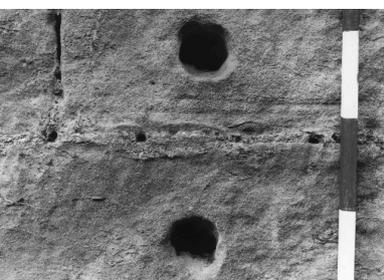
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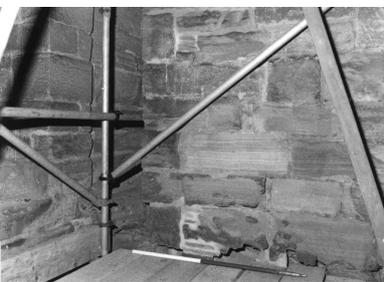
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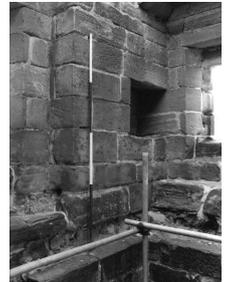
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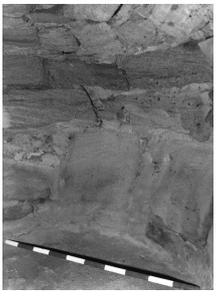
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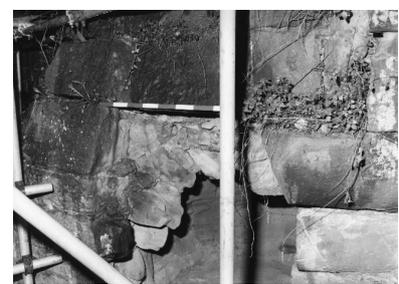
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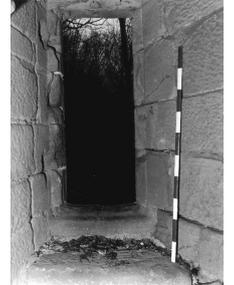
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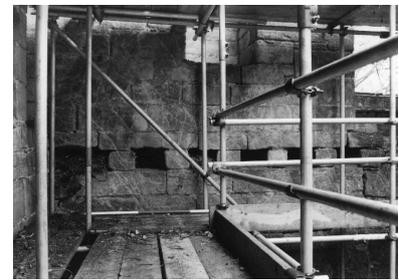
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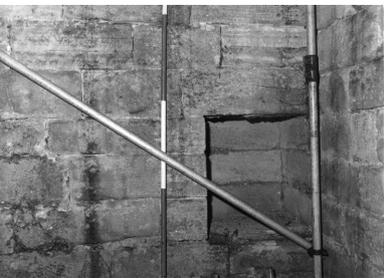
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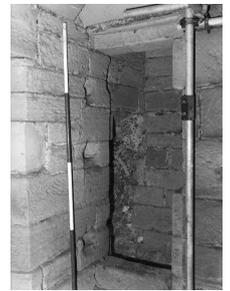
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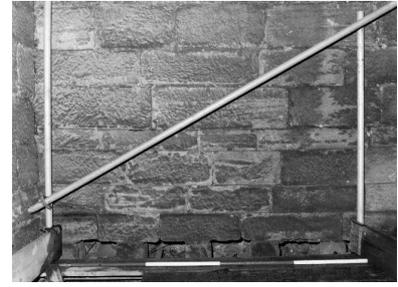
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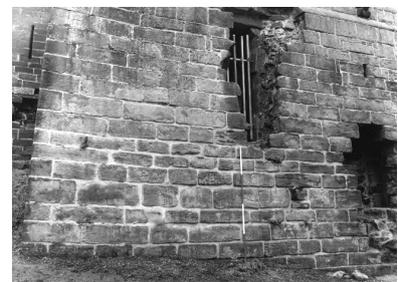
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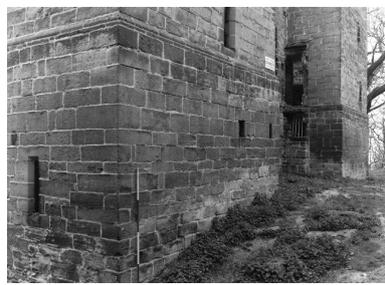
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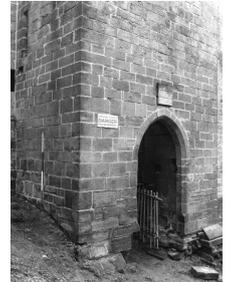
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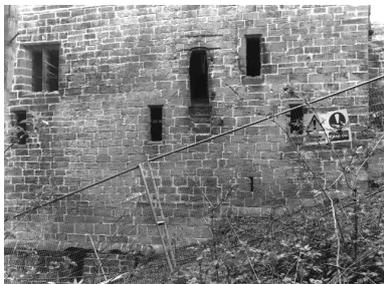
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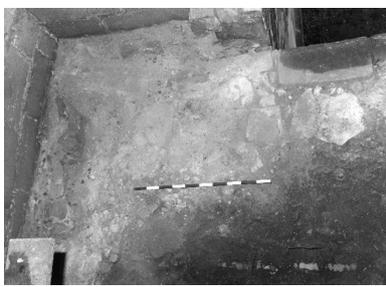
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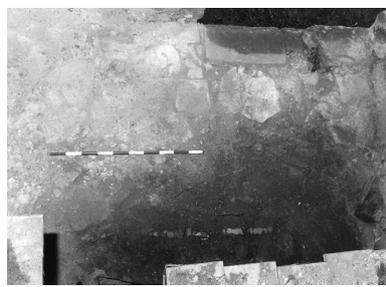
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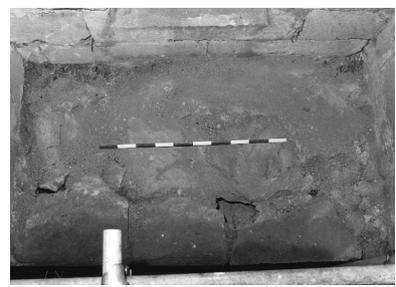
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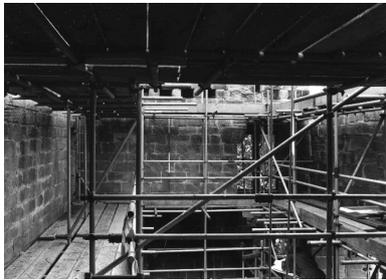
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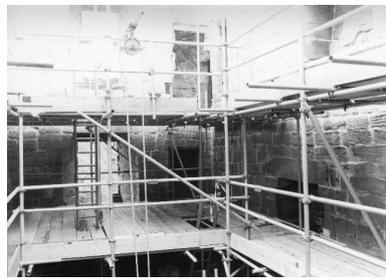
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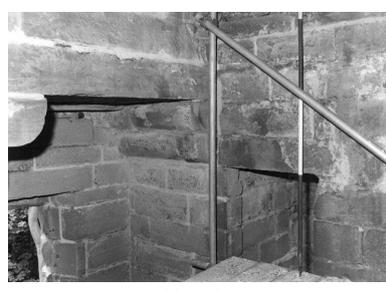
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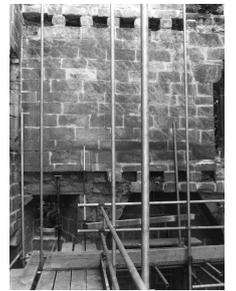
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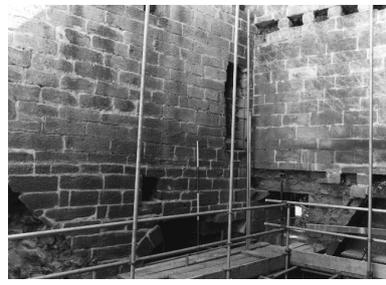
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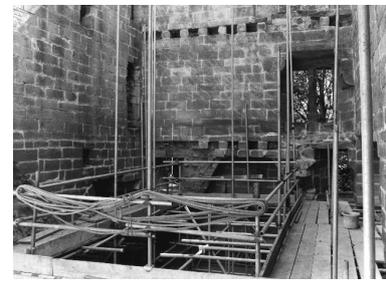
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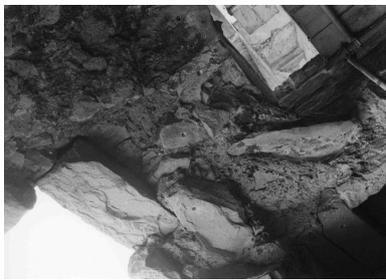
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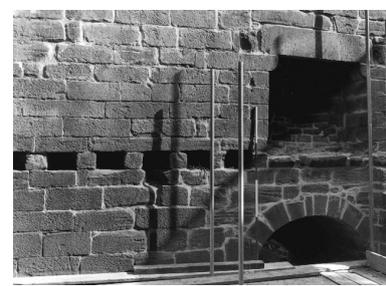
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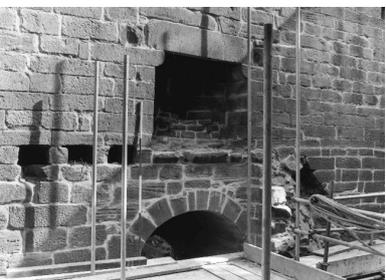
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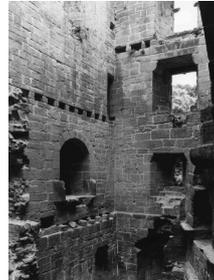
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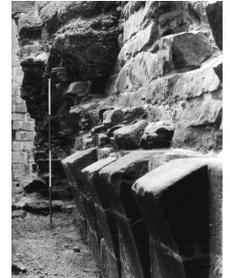
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APPENDIX 5
SUPPLEMENTARY ECOLOGY REPORT

HAREWOOD CASTLE
SUPPLEMENTARY ECOLOGY REPORT

October 2011

SUPPLEMENTARY ECOLOGY REPORT

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1 INTRODUCTION

- 1.1 EINC was commissioned by Ed Dennison Archaeological Services Ltd. (EDAS) in 2008 to undertake additional botanical and ornithological work at Harewood Castle to supplement the Ecological Survey Report of 2000 (EINC 2000). Note that the collation of information relating to the protection and monitoring of bats from the period 2000 – 2008 is included in a Final Bat Report for Harewood Castle (Holloway 2010).
- 1.2 The aim of the data collected was to provide further guidance on the sustainable management and ecological enhancement of the castle surrounds.

2 METHODOLOGY

2.1 *Extended Phase 1 Habitat Survey*

- 2.2.1 The purpose of undertaking an extended Phase 1 Habitat Survey was to supplement the botanical information collected in 2000 on the major vegetation zones in the vicinity of Harewood Castle (EINC 2000). To this end the study site was approximately twice the size of the original survey area and the new south-western boundary followed a footpath and deer fence approximately 220m east of the castle, as illustrated in Figure 1.
- 2.2.2 The extended Phase I Habitat Survey was undertaken during the summer of 2008 (between 25 April – 4 September 2008), using the standard methodology devised by English Nature (English Nature 1993). The vegetation was mapped onto a 1:2500 scale maps using standard alphanumeric codes, which were used to produce a coded habitat map (Figure 1). Further information for the site was described in the form of target notes which provide supplementary information on species composition and structure, evidence of management, habitats too small to map and transitional or mosaic habitats. These defined the vegetation of selected areas more precisely in terms of its plant communities.
- 2.2.3 The data gathered on the composition of the vegetation was sufficient to enable it to be characterised and assessed according to National Vegetation Classification (NVC) habitat types. Where habitats did not readily match NVC categories, or where they were considered to be of limited nature conservation value, a description, and a list of dominant species found, is provided within the target notes and is deemed sufficient. Plant nomenclature follows that used by Stace (1997).
- 2.2.4 Notes were also made on other species seen on site, including any tracks or signs of mammals, birds and invertebrates.

2.2 *Breeding Bird Survey*

Legislation

2.2.1 The primary legislation relating to wild birds in England, Scotland and Wales is the Wildlife and Countryside Act 1981. The basic principle of this Act is that all wild birds, their nests and eggs are protected by law and some rare species are afforded special protection. There are certain exceptions to this notably in respect of wildfowl, game birds and various species that may cause damage.

2.2.2 Under the 1981 Act it is an offence, with certain exceptions, to intentionally:

- kill, injure or take any wild bird
- take, damage or destroy the nest of any wild bird while it is in use or being built
- take or destroy the egg of any wild bird
- have in one's possession or control any wild bird (dead or alive) or part of a wild bird which has been taken in contravention of the Wildlife and Countryside Act or the Protection of Birds Act 1954
- have in one's possession or control an egg or part of an egg which has been taken in contravention of the Act
- have in one's possession or control any birds of a species occurring on Schedule 4 of the Act unless registered and ringed in accordance with the Secretary of State's regulations
- disturb any wild bird listed on Schedule 1 while it is nest building or is at (or near) a nest with eggs or young; or disturb the dependent young of such a bird.

2.2.3 Schedule 1 birds which are specially protected by the Wildlife and Countryside Act are:

Avocet	Grebe, Slavonian	Sandpiper, Wood
Bee-eater	Greenshank	Scaup
Bittern	Gull, Little	Scoter, Common
Bittern, Little	Gull, Mediterranean	Scoter, Velvet
Bluethroat	Harriers (all species)	Serin
Brambling	Heron, Purple	Shorelark
Bunting, Cirl	Hobby	Shrike, Red-backed
Bunting, Lapland	Hoopoe	Spoonbil
Bunting, Snow	Kingfisher	Stilt, Black-winged
Buzzard	Kite, Red	Stint, Temminck's
Chough	Merlin	Stone-curlew
Corncrake	Oriole, Golden	Swan, Bewick's
Crake, Spotted	Osprey	Swan, Whooper
Crossbills (all species)	Owl, Barn	Tern, Black
Divers (all species)	Owl, Snowy	Tern, Little
Dotterel	Peregrine	Tern, Roseate
Duck, Long-tailed	Petrel, Leach's	Tit, Bearded

HAREWOOD CASTLE SUPPLEMENTARY ECOLOGY REPORT

Eagle, Golden	Phalarope, Red-necked	Tit, Crested
Eagle, White-tailed	Plover, Kentish	Treecreeper, Short-toed
Falcon, Gyr	Plover, Little-ringed	Warbler, Cetti's
Fieldfare	Quail, Common	Warbler, Dartford
Firecrest	Redstart, Black	Warbler, Marsh
Garganey	Redwing	Warbler, Savi's
Godwit, Black-tailed	Rosefinch, Scarlet	Whimbrel
Goshawk	Ruff	Woodlark
Grebe, Black-necked	Sandpiper, Green	Wryneck
	Sandpiper, Purple	

Methodology

- 2.2.4 The methodology jointly produced by the British Trust for Ornithology (BTO), Royal Society for the Protection of Birds (RSPB) and the Joint Nature Conservation Committee (JNCC), acts as a relatively quick and simple exercise to keep track of breeding bird populations in the UK, and is known as a Breeding Bird Survey (BBS). This method was used to monitor breeding birds within a representative range of habitat types within the study area.
- 2.2.4 Six transects (each mostly 100 metres in length), were placed at regular intervals within the site and the location, length and number of each transect recorded (Figure 2). Two morning bird surveys were undertaken along each transect, and each visit was separated by an interval of at least 4 weeks. The first visit to the study area ('early' transect count) was undertaken on 25th April 2008, and the second visit ('late' transect count) was undertaken on 29th May 2008.
- 2.2.5 Survey work was only undertaken in favourable weather conditions i.e. not in conditions of heavy rain, poor visibility or strong wind. The birds seen and/or heard were recorded in one of the following four categories on the recording sheet when they were first noted:
1. within 25 metres either side of the transect line
 2. between 25 and 100 metres either side of the transect line
 3. more than 100 metres either side of the transect line
 4. birds in flight only (at any distance)
- 2.2.6 The distances were measured perpendicular to the transect line (i.e. at right angles to the line), and the birds were recorded using standard BTO species codes. Birds nesting in dense colonies (e.g. jackdaw, rook, sand martin and gulls) were counted separately.
- 2.2.7 Summary sheets were completed as soon as possible after each field visit. This form summarises the number of transects that each bird species has been recorded in, and allows the information to be further analysed. The summary sheets are included at the end of this report in Appendix 1.

3 RESULTS

3.1 Habitat Survey (update on the Ecological Survey Report of 2000)

Target Note 1 (broadleaved plantation – NVC W10 woodland)

3.1.1 Early mature trees of sweet chestnut *Castanea sativa*, sycamore *Acer pseudoplatanus* and pedunculate oak *Quercus robur* co-dominated the canopy of the woodland in this locality. The understorey included semi-mature silver birch *Betula pendula* and beech *Fagus sylvatica* as well as several saplings of the canopy trees and very occasional hawthorn *Crataegus monogyna* and elder *Sambucus nigra*. Carpets of bluebell *Hyacinthoides non-scripta* covered c. 40 - 60% of the field layer whilst broad buckler fern *Dryopteris dilatata* occupied c. 5%. Both nettle *Urtica dioica* and bramble *Rubus fruticosus* were only sparsely recorded. A range of mosses, including *Mnium hornum* and *Rhizomnium punctatum*, occupied c. 30% of the ground layer together with patches of bare earth, leaf litter and clumps of fallen twigs and branches. Finally, stumps were frequently recorded within the field layer and this was indicative of previous woodland management.

3.1.2 As noted in the Ecological Survey Report of 2000 it is very difficult to classify this woodland community according to NVC standards (EINC 2000) due to previous silvicultural treatments and modification of the canopy. Nevertheless, the abundance of bluebell *Hyacinthoides non-scripta* in the field layer is a characteristic element of a W10 *Quercus robur*-*Pteridium aquilinum*-*Rubus fruticosus* (bluebell) woodland.

Target Note 2 (broadleaved plantation – NVC W10 woodland)

3.1.3 A mixed aged canopy of semi-mature and early mature sycamore *Acer pseudoplatanus* and sweet chestnut *Castanea sativa* co-dominated the canopy. However, two of the sweet chestnut *Castanea sativa* trees were fully mature and had trunk diameters of 110cm and 120cm (estimated to be c. 140 - 150 years old). In addition, several dead standing trees were also recorded. Occasional mature holly *Ilex aquifolium* occurred in the understorey together with frequent semi-mature elder *Sambucus nigra* and occasional semi-mature holly *Ilex aquifolium* and hawthorn *Crataegus monogyna*. Sapling sycamore *Acer pseudoplatanus* was also a frequent feature in the understory whilst beech *Fagus sylvatica* and silver birch *Betula pendula* were occasional.

3.1.4 Carpets of bluebells *Hyacinthoides non-scripta* covered c. 65% of the field layer (Plate 7) and these were interspersed by clumps of broad buckler fern *Dryopteris dilatata* (15%) and fallen branches and twigs (15%). Other very sparse plants recorded in the field layer included nettle *Urtica dioica*, red campion *Silene dioica*, ground elder *Aegopodium podagraria* and seedling elder *Sambucus nigra*. Leaf litter occupied most of the ground layer (90%) where occasional rocks and boulders were exposed. Mosses, such as *Mnium hornum* and *Marchantia polymorpha* spp., were generally sparse (c. 4%). Finally, several large stumps were recorded within the field layer and these were, once again, indicative of previous woodland management.

3.1.5 Several fresh rabbit burrows were recorded.

- 3.1.6 As noted in paragraph 3.1.2 the abundance of bluebell *Hyacinthoides non-scripta* in the field layer is a characteristic element of a W10 *Quercus robur*-*Pteridium aquilinum*-*Rubus fruticosus* (bluebell) woodland.

Target Note 3 (Broadleaved plantation – NVC ?W14 woodland)

- 3.1.7 Semi-mature beech *Fagus sylvatica* occupied the belt of land between the northern boundary of the Ha-Ha and the adjacent path. Other trees recorded were sweet chestnut *Castanea sativa* and Scots pine *Pinus sylvestris*.

- 3.1.8 This narrow belt of trees was too small to categorise into an NVC type but, nevertheless, most resembled the W14 *Fagus sylvatica*-*Rubus fruticosus* woodland described in the previous Ecological Survey (EINC 2000).

Target Note 4 (Young conifer woodland - Norway spruce)

- 3.1.9 A block of young Norway spruce *Picea abies* had been planted at this location and all the trees were between 10 – 12m high (Plates 1 and 5). No other plants were recorded in the deeply shaded ground beneath the closely-spaced rows of trees (Plate 5). However, bramble *Rubus fruticosus* was a frequent feature along the edge of the woodland block and other species recorded included a young sweet chestnut *Castanea sativa* and pedunculate oak *Quercus robur*. Occasional elder *Sambucus nigra*, nettle *Urtica dioica*, broad buckler fern *Dryopteris dilatata* and rare male fern *Dryopteris felix-mas* were other edge species that were recorded in this locality.

Target Note 5 (Scots pine plantation – NVC W10 woodland)

- 3.1.10 Most of the trees within this mature Scots pine *Pinus sylvestris* plantation were >20m tall and the distance between each tree varied between 2.5 – 4.5m which allowed some light into the field and ground layers. Regeneration of this woodland, however, was extremely sparse and only a few saplings/semi-mature specimens of pedunculate oak *Quercus robur*, silver birch *Betula pendula* and sycamore *Acer pseudoplatanus* were noted in the understorey.

- 3.1.11 The field layer was dominated by broad buckler fern *Dryopteris dilatata* although a few saplings of silver birch *Betula pendula* were also noted together with a small clump of rhododendron *Rhododendron ponticum* (Plate 3). Occasional other plants recorded included wood sorrel *Oxalis acetosella*, foxglove *Digitalis purpurea*, bramble *Rubus fruticosus*, soft rush *Juncus effusus*, Yorkshire fog *Holcus lanatus* and creeping soft grass *Holcus mollis*. A mix of bare ground and pine needles, however, generally covered the ground floor. Fallen trunks, branches and twigs occupied c. 5% of the field layer.

- 3.1.12 Occasional small springs and shallow puddles were recorded within the woodland where a mix of tall ruderals and hydrophilic plants had collected. These included tufted hair-grass *Deschampsia cespitosa*, marsh thistle *Cirsium palustre*, marsh cudweed *Gnaphalium uliginosum*, spear thistle *Cirsium vulgare*, nettle *Urtica dioica*, creeping buttercup *Ranunculus repens*, bittersweet *Solanum dulcamara*, wavy bitter-cress *Cardamine flexuosa* and lady fern *Athyrium filix-femina*.

3.1.13 The establishment of Scots pine *Pinus sylvestris* as the dominant canopy tree within this plantation once again makes it is very difficult to classify it according to NVC standards. Nevertheless, the abundance of broad buckler fern *Dryopteris dilitata* in the field layer is indicative of a W10 *Quercus robur* - *Pteridium aquilinum* - *Rubus fruticosus* woodland.

Target Note 6 (ill-drained pasture – NVC MG10 rush-pasture)

3.1.14 The water-logged, slightly acidic soils here were co-dominated by tussocks of soft rush *Juncus effusus* and a mixture of tall grasses. The latter consisted of Yorkshire fog *Holcus lanatus*, creeping soft grass *Holcus mollis* and common bent *Agrostis capillaris*. Other more occasional grasses and herbs were greater bird's-foot-trefoil *Lotus pedunculatus*, lesser stitchwort *Stellaria graminea*, tufted hair-grass *Deschampsia cespitosa*, oval sedge *Carex ovalis*, smooth meadow-grass *Poa pratensis*, heath bedstraw *Galium saxatile*, tormentil *Potentilla erecta*, broad buckler fern *Dryopteris dilitata* and bramble *Rubus fruticosus*.

3.1.15 The combination of plants were characteristic of MG10 *Holco-Juncetum effusi* rush-pasture.

Target Note 7 (narrow belt of larch)

3.1.16 A belt of larch trees fringed the western edge of the Scots pine *Pinus sylvestris* plantation. A sparse understorey consisted of occasional semi-mature/sapling sycamore *Acer pseudoplatanus*, silver birch *Betula pendula*, pedunculate oak *Quercus robur*, rowan *Sorbus aucuparia* and elder *Sambucus nigra*. Broad buckler fern *Dryopteris dilitata* dominated the field layer and occasional other herbs and grasses recorded were wood sorrel *Oxalis acetosella*, bramble *Rubus fruticosus*, heath bedstraw *Galium saxatile*, Yorkshire fog *Holcus lanatus*, tormentil *Potentilla erecta* and foxglove *Digitalis purpurea*.

3.1.17 A small patch of Himalayan balsam *Impatiens glandulifera* was recorded at the northern edge of this woodland, adjacent to the path as illustrated in Figure 1.

Target Note 8 (Ha-Ha)

3.1.18 The Ha-Ha was generally very silted up although maximum water depth recorded was c. 14cm. Vegetation colonising parts of the wall included hart's tongue *Phyllitis scolopendrium* and broad buckler fern *Dryopteris dilitata*. Occasional trees such as sweet chestnut *Castanea sativa* were recorded growing from the walls (Plate 4)

3.2 Breeding Bird Survey

3.2.1 A total of 21 bird species were recorded from the Breeding Bird Survey and these are listed in Table 1:

Table 1 Birds recorded during the BBS

Blackbird	Blue Tit	Buzzard
Carrion Crow	Chaffinch	Chiffchaff

Coal Tit	Goldcrest	Great Spotted Woodpecker
Great Tit	Jackdaw	Jay
Mallard	Nuthatch	Pheasant
Robin	Song Thrush	Stock Dove
Treecreeper	Wood Pigeon	Wren

3.2.2 The standard summary sheets for each species are given in Appendix 1 at the end of this report. In addition, a red kite was recorded flying over the study area during the extended Phase 1 Habitat Survey which brings the total number of birds recorded within the study area to 22.

3.3 Other fauna

3.3.1 Several rabbit burrows and droppings were indicative of rabbit activity within the study area. A deer fence on western border, however, ensured that no deer activity was recorded. Butterflies recorded in the open grassland areas were meadow brown and ringlet.

4 EVALUATION

4.1 Habitat

4.1.1 None of the plantations in the study area at Harewood Castle were ancient and therefore not considered to be of either national or county ecological value. Nonetheless, the mosaic of habitat types that were recorded were together considered to be of parish ecological value. The locations and extent of all the identified habitats are illustrated in Figure 1 and for further details refer to the Ecological Survey Report of 2000 (EINC 2000).

4.2 Breeding Birds

4.2.1 The UK's leading bird conservation organisations have produced a quantitative review of the status of the 246 birds that occur regularly in the UK (*'Birds of Conservation Concern'* Eaton *et. al* 2009). The criteria used in the assessments reflect each species' global and European status as well as that within the UK, and additionally measure the importance of the UK population in international terms. Each bird has been placed on one of three lists – green, amber and red – indicating an increasing level of conservation concern.

4.2.2 Although none of the 22 bird species that were recorded within the study area were rare, one (the song thrush) nevertheless qualified as a Red List bird of high conservation concern. This bird has suffered a severe decline in the UK breeding population size, of more than 50%, over the entire period used for assessments, which began in 1969. Critical to the song thrush is an abundance of snails and other invertebrates and recent declines for this bird are linked to their poor survival during the first year of life. A song thrush was recorded singing within the woodland and open grassland to the north of the Ha-Ha during both the early and late BBS surveys and the likelihood was that it had a breeding territory within these habitats. Song thrushes nest in trees

and shrubs and on ground in thick vegetation and such habitats were readily available within the study area.

- 4.2.3 A further two birds (red kite and stock dove) qualified as Amber List birds of moderate conservation concern. The red kite qualified because it is categorised as a Species of European Conservation Concern and the stock dove qualified because at least 20% of the European breeding population is found in the UK. A single red kite, however, was only recorded flying over the site and so was unlikely to be breeding within the study area. In contrast, a stock dove was heard calling from one of the mature trees within the woodland south-west of the castle during the early BBS survey. Although a stock dove was not heard again during the late BBS survey it was thought possible that this bird may also have bred within the woodland. This is because the bird can use well-grown trees with hollows or holes as well as holes in buildings and ruins, or other artefacts, for nesting. Each of these habitats/structures was in abundance within the study area.

5 FUTURE MANAGEMENT

5.1 Woodlands

- 5.1.1 An outline management plan for the woodland communities in the vicinity of Harewood Castle is described in the Ecological Survey Report of 2000 (EINC 2000). Additional substantial thinning measures for the Norway spruce *Picea abies* and Scots pine *Pinus sylvestris* plantations described in Target Notes 4 and 5 are also recommended in this report. In each case the aim would be to open up the canopies to allow for the regeneration of native saplings and seedlings and to allow a more diverse, and species-rich, field and ground layer to develop.
- 5.1.2 Also, a major potential nature conservation threat to the study area was the patches of non-native rhododendron *Rhododendron ponticum* and Himalayan balsam *Impatiens glandulifera* that were recorded. These plants were located in the centre and north-west corner of the Scots pine plantation respectively (Target Note 4, Figure 1) and, if unchecked, they are likely to eventually dominate the local native flora and cause significant reductions in their diversity. Indeed, for Himalayan balsam *Impatiens glandulifera* the amended Wildlife and Countryside Act 1981 (amended 2010) makes it illegal to allow the spread of these weeds on to neighbouring land. In addition, all soil containing roots/rhizomes of this plant is now classed as controlled waste which must be disposed of at a licensed landfill site. Thus, it is recommended that the patches of rhododendron *Rhododendron ponticum* and Himalayan balsam *Impatiens glandulifera* located in the Scots pine plantation be permanently removed.

5.2 Grasslands

- 5.2.1 It is recommended that the short-turf communities representative of U1 acid grassland (Plate 2) and much taller tussocks of MG10 soft-rush pasture (Target Note 6) are maintained. To this end any encroaching tall ruderals (bracken and bramble) should be controlled as and when appropriate.

5.3 Birds

- 5.3.1 Active measures to enhance the potential of birds breeding in the study area include the erection of at least 10 bird boxes on trees within the existing plantations and woodlands to provide further roosting opportunities. In addition, the recommended diversification of the existing woodlands and retention of the existing grasslands would provide further breeding and/or feeding opportunities for a range of birds.

6 SUMMARY

- 6.1 EINC was commissioned in 2008 to undertake further data collection at Harewood Castle to supplement the Ecological Survey Report of 2000. The aims of this report are to:

- Identify and evaluate the major vegetation zones within a study area that was approximately twice the size of the original site described in the Ecological Survey Report of 2000 (EINC 2000).
- Undertake a Breeding Bird Survey of the site.
- Provide general ecological advice on woodland and grassland management and the specialist requirements of breeding birds.

- 6.2 An evaluation of habitats and breeding birds within the study area was based on ecological survey work undertaken between April and September 2008.

- 6.3 The mosaic of plantations and grassland types within the study area are considered to be of parish ecological value and their locations are illustrated in Figure 1.

- 6.4 One red list bird (song thrush) and one amber list bird (stock dove) of high and moderate conservation concern respectively were considered likely to be breeding within the study area.

- 6.5 General recommendations for the future management and ecological enhancement of the study area are described in Section 5.

7 REFERENCES

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Plate 1 Acid grassland, bracken and plantation habitats at Harewood Castle

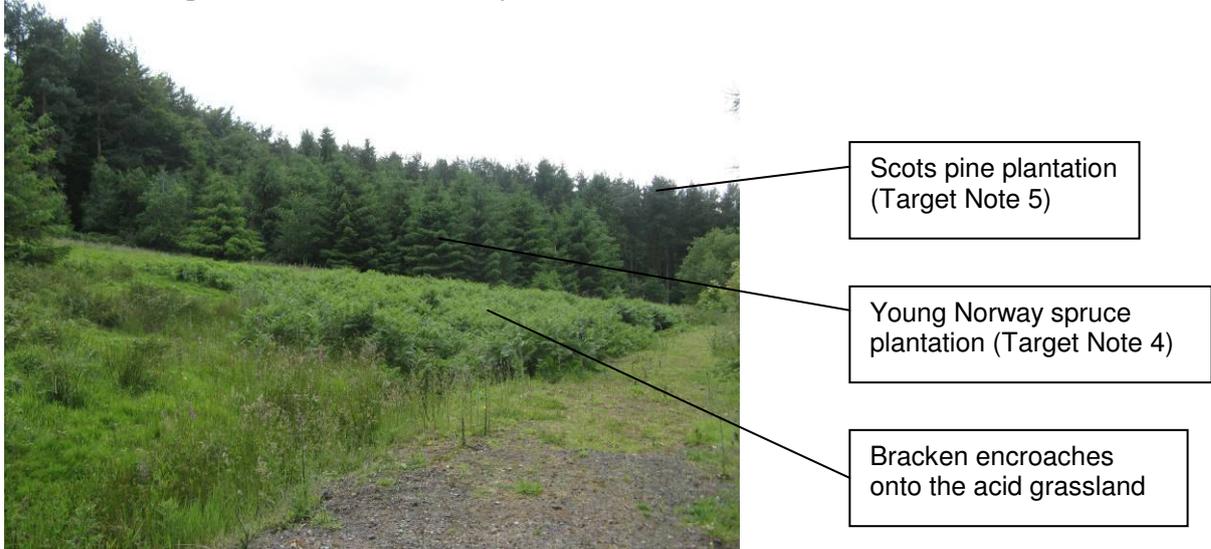


Plate 2 Acid grassland (refer to the Ecological Survey Report 2000 for further details)



Plate 3 Scots pine plantation (Target Note 5)



Plate 4 Leaning trunk of a semi-mature sweet chestnut on the wall of the Ha-Ha



Ha-Ha wall hidden
beneath vegetation

Plate 5 Norway spruce plantation (planted in rows with very little field/ground flora)



Plate 6 Yew plantation (planted in rows with very little field/ground flora)



Plate 7 Bluebell carpet under the broadleaved plantation



Harewood Castle

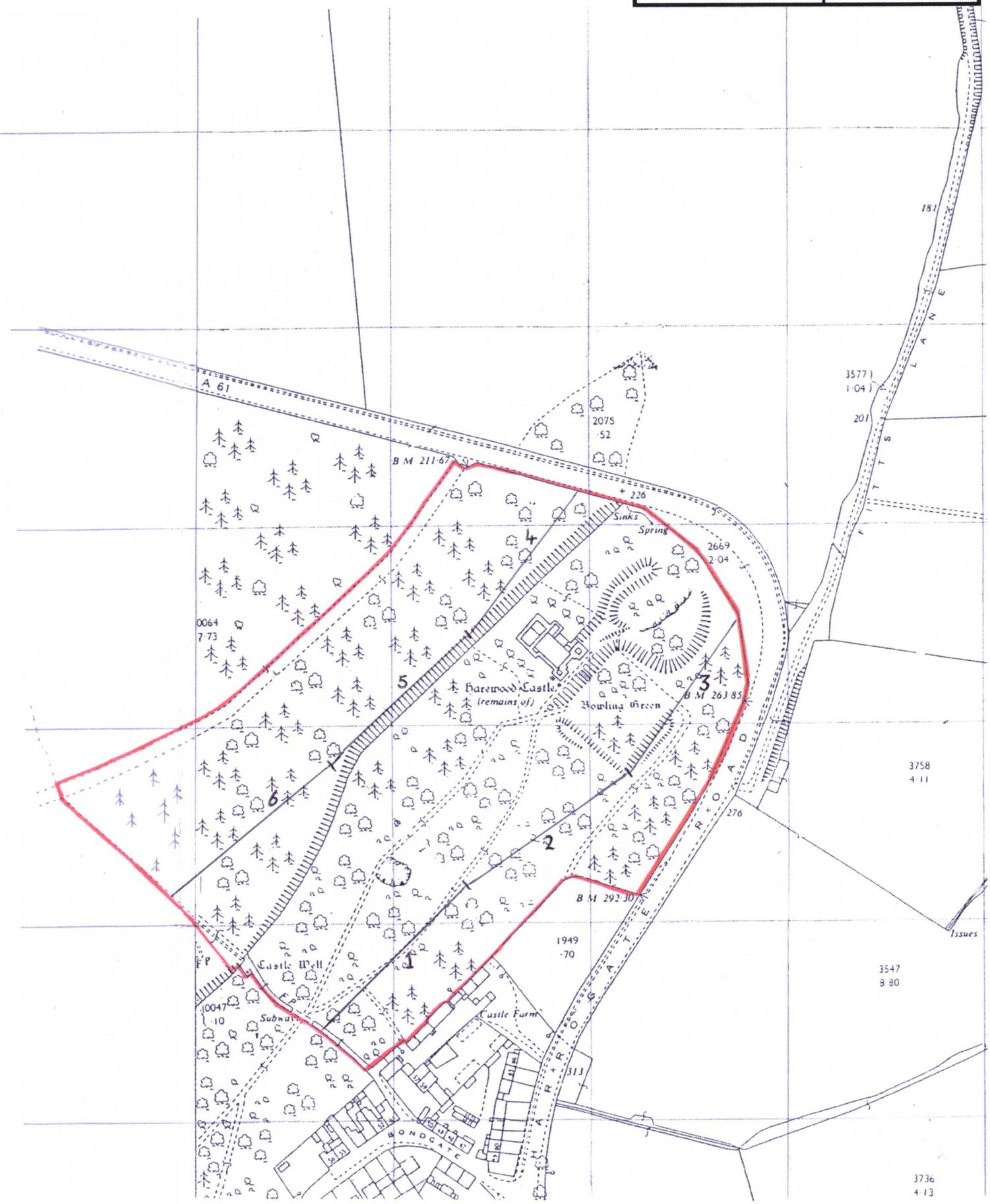
Key to Figure 1 – Habitat Map

	Broadleaved woodland (with dog's mercury - W8)
	Broadleaved woodland (with bluebell – W10)
	Broadleaved woodland (with beech - ?W14)
	Yew plantation
	Norway spruce plantation
	Scots pine plantation
	Acid grassland (U1)
	Rush-pasture (MG10)
	Bracken
	Target Note
	Photo
	Site boundary
	Himalayan balsam <i>Impatiens glandulifera</i>
	Rhododendron <i>Rhododendron ponticum</i>

PROJECT	Harewood Castle, Leeds		
TITLE	PHASE 1 HABITAT MAP		
SCALE	1:2500	DATE	October 2011
EINC		FIGURE	1



PROJECT	Harewood Castle, Leeds		
TITLE	BREEDING BIRD SURVEY TRANSECTS		
SCALE	1:2500	DATE	October 2011
EINC		FIGURE	2





BREEDING BIRD SURVEY - COUNT SUMMARY SHEET

Please do not write in the shaded boxes.

PLEASE USE BLOCK CAPITALS

Obs. code	Observer name	Mr/Ms M. HOLLOWAY		Address	
1-km square reference (eg SK0212)	HAREWOOD CASTLE		19 FARFIELD RD		
County code (eg GBSY)			BD12 4QP		
Visit date (DD:MM:YY) (eg 08:05:01)	25:04:08		Tel. No:		email:
Early or late visit (E/L)	E	Weather (1, 2 or 3)	Cloud	Rain	Wind
			10%	Nil	Light
First half	Start time (HH:MM)	08:05	Finish time	08:49	
Second half	Start time (HH:MM)		Finish time		

Species code and name	Distance Category	Number of birds recorded on each transect section									
		1	2	3	4	5	6	7	8	9	10
R Robin	1		1		1		1				
	2	1	1	1							
	3										
	F										
GT Great Tit	1	3	2	2	2	4					
	2										
	3			1							
	F										
CT Coal Tit	1	1					1				
	2										
	3										
	F										
BT Blue Tit	1				1		2				
	2	1			1		1				
	3										
	F										
NH Nuthatch	1										
	2	1									
	3										
	F										
WR Wren	1			1	1		2				
	2	2	1	1							
	3				1						
	F										
CC Chiffchaff	1		1				1				
	2	1									
	3										
	F										
WP Wood Pigeon	1					2	1				
	2										
	3	3					1				
	F										
GC Gold	1										
	2		2								
	3										
	F										

Only insert number in boxes (no +, ♀, ♂ please)

PLEASE RETURN ALL FORMS TO YOUR RO (or to the Nunnery if you do not have one)

Two-letter species code and species name	Distance category	Number of birds recorded on each transect section									
		1	2	3	4	5	6	7	8	9	10
SD Stock Dove	1										
	2		1								
	3										
	F										
JD Jackdaw	1										
	2		22								
	3										
	F										
J. Jay	1										
	2										
	3		1								
	F										
C. Crow	1										
	2										
	3										
	F		2								
TC Treecreeper	1			1							
	2										
	3										
	F										
CH Chaffinch	1			1							
	2						1				
	3										
	F										
MA Mallard	1				1						
	2										
	3										
	F										
B. Blackbird	1							1			
	2										
	3										
	F										
ST Song Thrush	1										
	2										
	3							1			
	F										
.....	1										
	2										
	3										
	F										
.....	1										
	2										
	3										
	F										

Two-letter species code and species name	Date of count (DD:MM:YY) (eg 29.04.2001)	Best estimate of number of active nests (=pairs)
R O Rook	__ : __ : 20 __	
S M Sand Martin	__ : __ : 20 __	
..... Gull	__ : __ : 20 __	
.....	__ : __ : 20 __	



BREEDING BIRD SURVEY - COUNT SUMMARY SHEET

Please do not write in the shaded boxes.

PLEASE USE BLOCK CAPITALS

Obs. code	Observer name	Mrs/Ms M. Holloway	Address	
1-km square reference (eg SK0212)	HAREWOOD CASTLE		19 FARFIELD RD	
County code (eg GBSY)			BD18 4QP	
Visit date (DD:MM:YY) (eg 08:05:01)	29:05:08		Tel. No:	email:
Early or late visit (E/L)	L	Weather (1, 2 or 3)	Cloud 20%	Rain Nil
			Wind Light	Visibility Good
First half	Start time (HH:MM)	04:41	Finish time	05:30
Second half	Start time (HH:MM)		Finish time	

Species code and name	Distance Category	Number of birds recorded on each transect section									
		1	2	3	4	5	6	7	8	9	10
B Blackbird	1		2		1						
	2	1				1					
	3										
	F										
JD Jackdaw	1				35						
	2	2									
	3			1							
	F										
ST Song Thrush	1										
	2				1						
	3					1					
	F										
CH Chaffinch	1		1	1							
	2			1	1						
	3			1							
	F										
WR Wren	1	1	1	1							
	2			2	1		2				
	3		2								
	F										
WP Wood Pigeon	1	2	1								
	2		2			1	1				
	3				1		1				
	F										
GT Great Tit	1			1							
	2										
	3				1						
	F										
R Robin	1	2	1	1		1	1				
	2	1	1								
	3										
	F										
TC Tree Creeper	1			1		1	1				
	2										
	3										
	F										

Only insert number in boxes (no +, ?, or please)

PLEASE RETURN ALL FORMS TO YOUR RO (or to the Nunnery if you do not have one)

Two-letter species code and species name	Distance category	Number of birds recorded on each transect section									
		1	2	3	4	5	6	7	8	9	10
CC Chiffchaff	1										
	2		1								
	3					1					
	F										
GC Goldcrest	1			1			1				
	2										
	3										
	F										
CT Coal Tit	1						1				
	2										
	3										
	F										
BZ Buzzard	1										
	2										
	3										
	F						1				
PH Pheasant	1										
	2										
	3	1									
	F										
GS Great Spotted Woodpecker	1			1							
	2										
	3										
	F										
	1										
	2										
	3										
	F										
	1										
	2										
	3										
	F										
	1										
	2										
	3										
	F										
	1										
	2										
	3										
	F										

Two-letter species code and species name	Date of count (DD:MM:YY) (eg 29.04.2001)	Best estimate of number of active nests (=pairs)
R O Rook	___ : ___ : 20 ___	
S M Sand Martin	___ : ___ : 20 ___	
___ Gull	___ : ___ : 20 ___	
___	___ : ___ : 20 ___	