



Highland Archaeology Services Ltd
Bringing the Past and Future Together

Oswald Lane, Cromarty



Archaeological Watching Brief

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Oswald Lane, Cromarty

Archaeological Watching Brief

Report No.	HAS150104
Site Code	HAS_COL14
Client	C and C Keith
Planning Ref	11/01283/FUL
OS Grid Ref	NH 78930 67489
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Author	John Wood

Summary

An Archaeological watching brief was carried out to record features of potential archaeological significance that might be affected by construction of a house on Oswald Lane, Cromarty. A wall and coal cellar of a house on this site was discovered. There are no recommendations for further archaeological work.

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Acknowledgements and Copyright

The fieldwork was undertaken and the report was produced and edited by John Wood. Thanks are due to Zoulla Spirou for her photographs. Background mapping has been reproduced by permission of the Ordnance Survey under Licence 100043217. Historic maps are courtesy of the National Library of Scotland.

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Location

The proposed development is to be located in Oswald Lane, Cromarty, Highland, at approximate grid reference NH78930 67489.

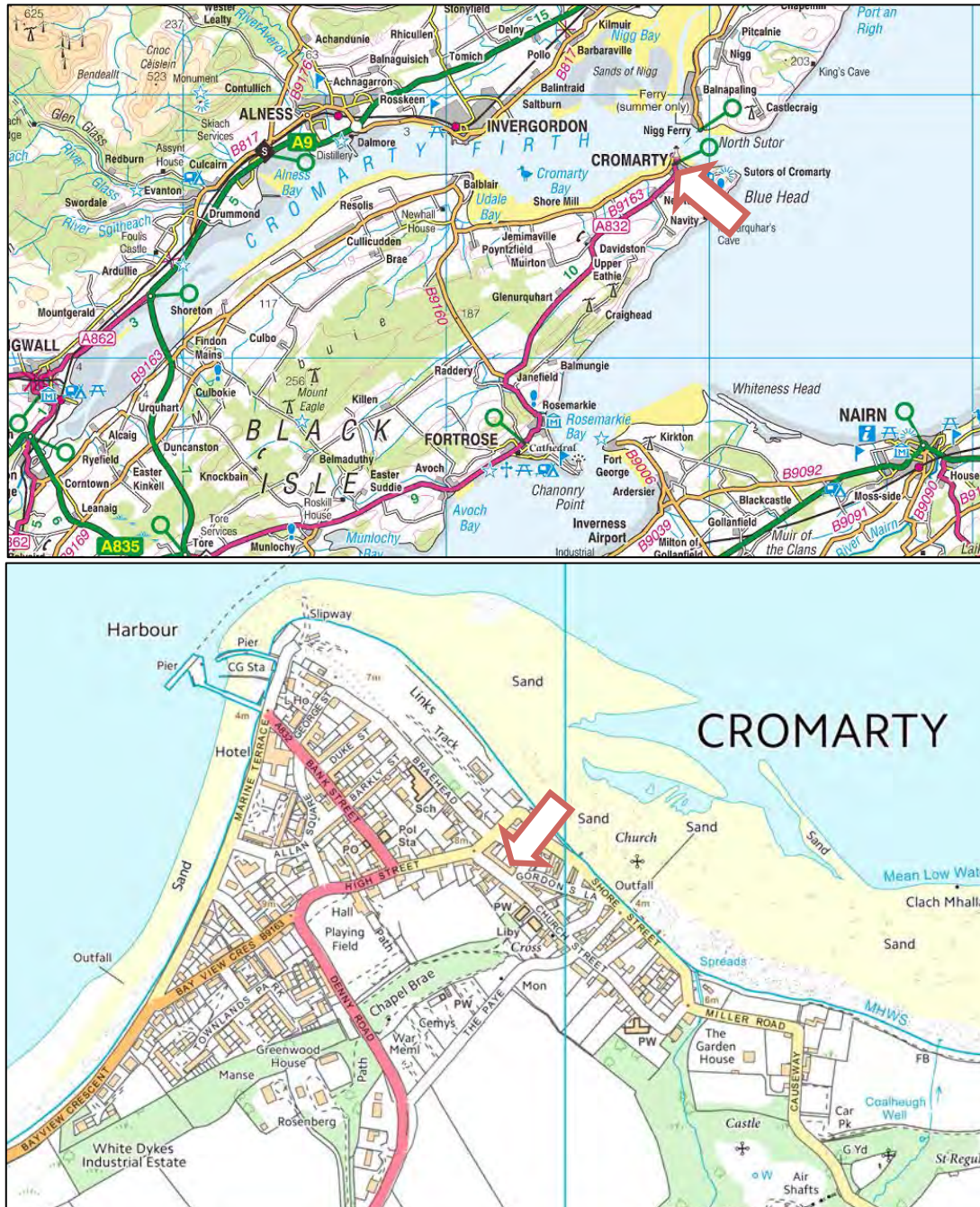


Figure 1 Project location (general)
From OS mapping, reproduced under Licence. Not to original scales

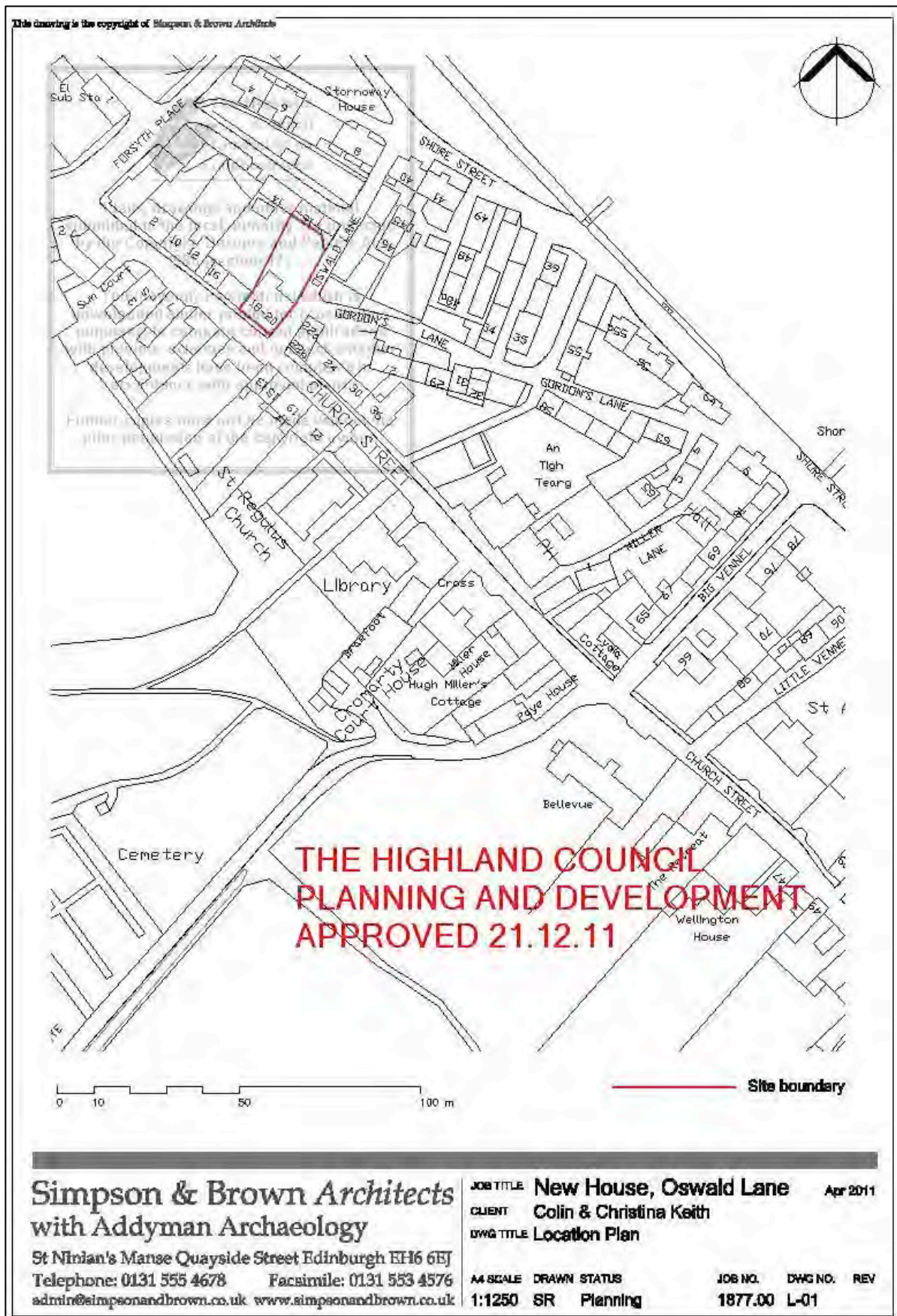


Figure 2: Site location

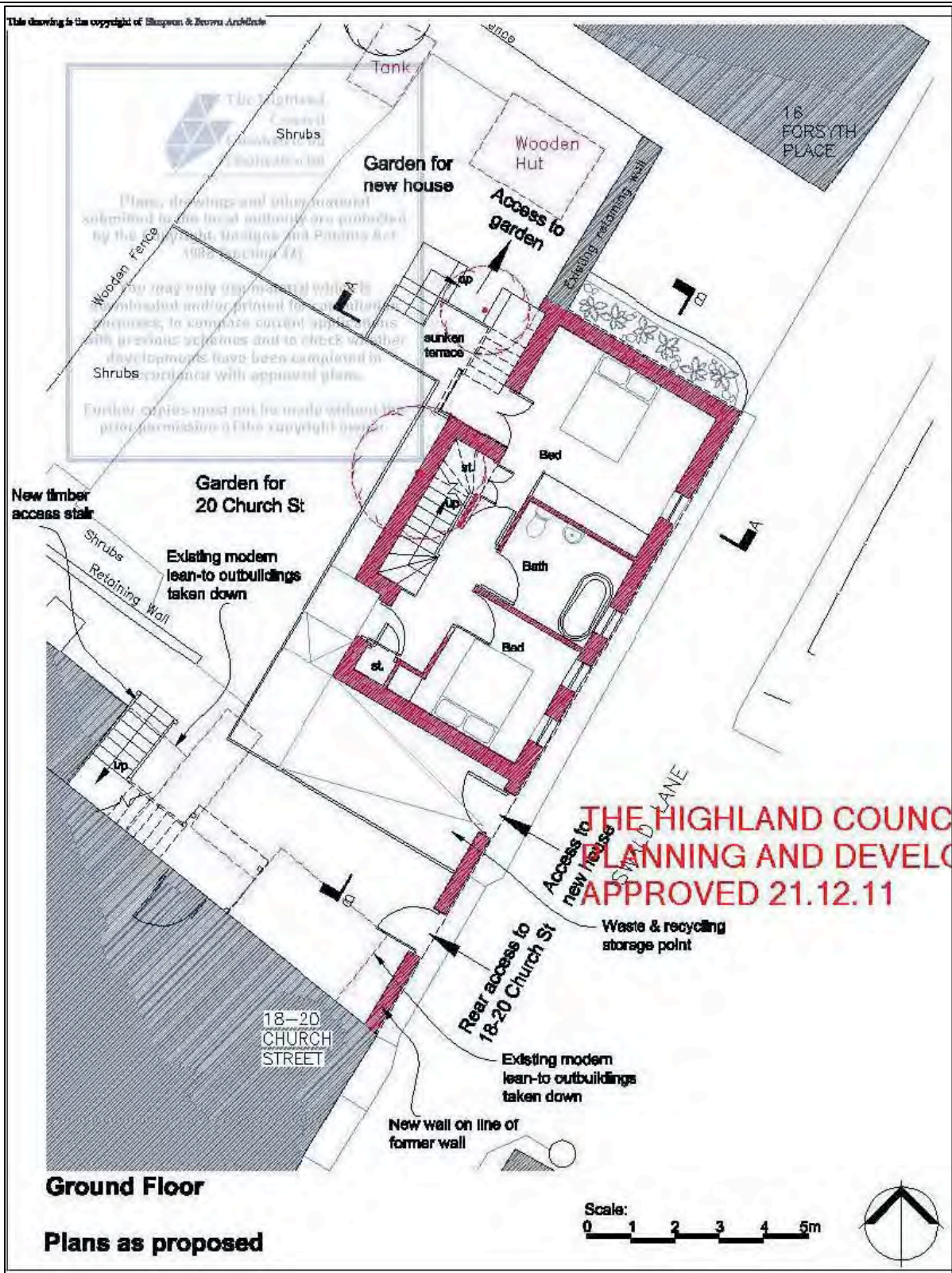


Figure 3: Proposed Site Layout

Legislation and Policy

The common principles underlying international conventions, national legislation and local authority planning policies are that cultural heritage assets should be identified in advance of development and safeguarded where practicable; if disturbance is unavoidable appropriate recording of features and recovery of portable artefacts should take place. These have been set out in international and European Union agreements, and UK and Scottish legislation, as well as national and local planning policies¹.

Professional standards during the present project were secured by adherence to the *Codes of Conduct* and *Approved Practice and Standards* of the Institute for Archaeologists and the Highland Council's *Standards for Archaeological Work*.

Background

The work was occasioned by site clearance for the construction of a house on Oswald Lane, Cromarty. The site lies within Cromarty Conservation Area². Archaeological fieldwork was undertaken in response to a planning condition imposed by the Highland Council³ at the request of their Historic Environment Team, which required a desk-based assessment, a photographic record of the rear of the adjoining listed building in advance of any demolition works, and a controlled topsoil strip to identify and record any archaeological features or finds present.

The results of the desk-based assessment carried out by Lynne McKeggie were reported in October 2014⁴, but for convenience they are repeated here.

Desk Based Assessment

A desk-based assessment of the recorded archaeology within the immediate vicinity of the site was undertaken by Lynne McKeggie to provide a context for the fieldwork and to give an indication of the archaeological potential of the present site. The following description is taken from her report⁵

The sites listed are shown in Figure 4.

Archaeological Records

Both the Highland Historic Environment Record (HHER) and the National Monuments Record for Scotland (NMRS) were consulted and checked for archaeology in the area.

¹ A summary of relevant international, EU, UK and Scottish legislation and policies is available from the Highland Archaeology Services office on request.

² http://www.highland.gov.uk/info/192/planning_-_listed_buildings_and_conservation_areas/175/conservation_area_cromarty

³ Application 11/01283/FUL

⁴ McKeggie, LM 2014 Cromarty Oswald Lane: Desk-based Assessment, Project Design, Risk Assessment and Method Statement Highland Archaeology Services Report HAS141002, Cromarty

⁵ Ibid.

DBA 1: Victoria House, Church street**Grid Ref:** NH 7892 6748**HHER Ref:** MHG16707**NMRS (Numlink):** 105616

Description: Category grade C(S) listed building no. 23606. This building is labelled as a Public House on the 1st edition 1:2500 scale Ordnance Survey map surveyed in 1880. It is currently a café.

'Originally late 18th century 2 storey and attic, 3 bay with centre door. Early 20th century shop front with fascia board, pilasters flanking front door and glazing. 1880: porch added to west gable. 1914: Thomas Munro, 2 storey, single bay addition to rear. 2 piended dormers, slate roof, original crowstepped west gable, coursed rubble.' – Listed building record

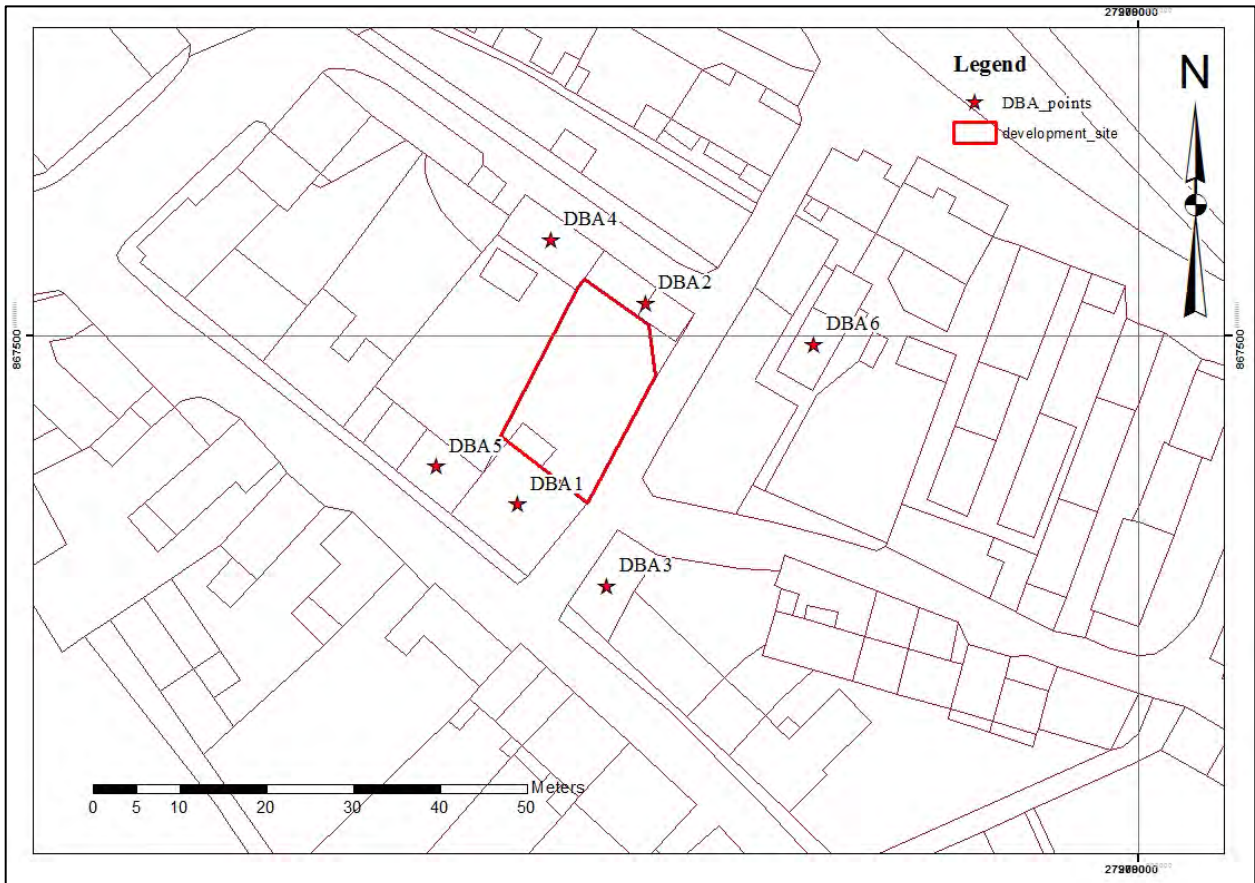


Figure 4: Sites identified in Desk Based Assessment

DBA 2: 16 Forsyth Place**Grid Ref:** NH 7894 6750**HHER Ref:** MHG21759**NMRS:** 105770

Description: Unlisted building within the Conservation Area. Note that despite the address, this house is not in Forsyth Place but on the corner of Oswald Lane and Rose Lane.

DBA 3: 22 Church Street**Grid Ref:** NH 7894 6747**HHER Ref:** MHG16705**NMRS:** 105618

Description: Category grade B listed building no. 23605.

'Circa 1830, rough ashlar. 2 storeys and attic, narrow frontings, 2 windows and centre door at ground floor, one window at first floor. Rusticated quoins, scrolled skewputt. Slated roof with segment-headed dormer.' – Listed building record

DBA 4: 14 Forsyth Place**Grid Ref:** NH 7893 6751**HHER Ref:** MHG16311**NMRS:** 105769

Description: Category grade B listed building no. 23675.

'Late 18th/early 19th century, 2 storey and dormerless attic, 3 bay house with centre door. Dry dashed with painted margins; 6 pane sashes; small attic windows in gable ends. Slate roof.'

DBA 5: Struy House, Church Street**Grid Ref:** NH 789674**HHER Ref:** MHG21754**NMRS:** 105613

Description: Category C(S) listed building no.23607. There is some confusion in the records between this and the neighbouring house, which has the same listed building records.

'Late 19th century house with inserted shop front. 2 storey attic, 3 bay with centre door. Rubble with ashlar dressings. Bipartite to ground floor, flanking bipartites 1st floor. 2 piended dormers. Slate roof.'

DBA 6: 46 Seabank, Fishertown**Grid Ref:** NH 7896 6749**HHER Ref:** MHG16263**NMRS:** 105754

Description: Category C(S) listed building no. 23660.

'Late 18th/early 19th century, 2 storey 3 bay with centre door. Harled with painted margins; 12-pane sashes to front elevation; slate roof.'



Figure 5 Extract from Timothy Pont's map of Easter Ross. Late 16th c.

Historic Maps

Historic maps were accessed online from the National Library of Scotland. The earliest map showing Cromarty appears to be Timothy Pont's in the late 16th c. (Figure 5). This seems to show the settlement lying entirely below the castle in the area around the Causeway, with the peninsular that culminates in the present harbour completely clear. It is not clear how accurate this depiction is. Pont is generally thought to have attempted to depict places as they appeared. However, excavations at the East Church seem to suggest that that site was developed from the 15th c. onwards.



Figure 6 William Roy's survey 1747-55



Figure 7 Reform Act, 1832

By the time of William Roy's military survey (1747-55), the orientation of the town seems to have completely changed (Figure 6). The focus is now Church Street, with a few extra buildings already appearing to the north and west. The present site would seem to be part of the built up area by this time.

The 1832 Parliamentary Reform Act required town plans to be drawn up of many burghs, including Cromarty (Figure 7). By this time Oswald Lane is clearly visible, with the present site occupied by buildings, though little detail is available. Bank Street and Braehead now lead to the harbour.

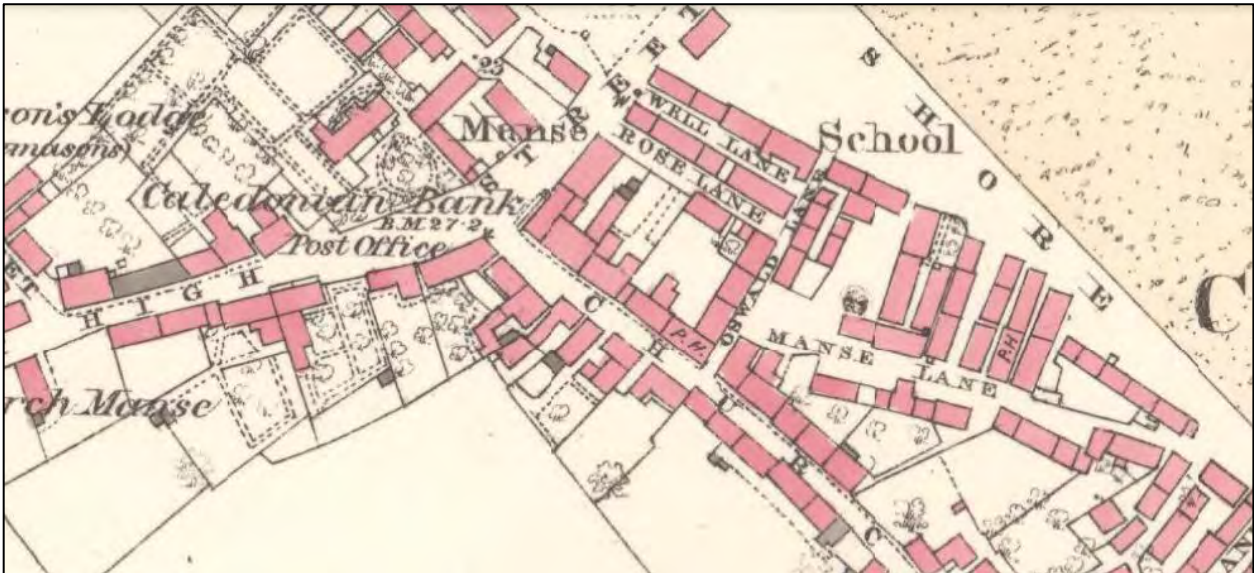


Figure 8: Section from the 1st edition OS map (Ross and Cromarty Sheet LXVII.9, published 1880)
(Not reproduced to scale)

The 1st edition Ordnance Survey 1:2500 scale map, surveyed in 1880, shows further development (Figure 8). A terrace occupies the present development site, and the neighbouring Victoria House (now Couper's Creek, DBA1) is marked as a Public House. These buildings also appear on all editions of the 6 inch (1:10560 scale) Ordnance Survey map revised between the wars, but much demolition had to take place following severe floods in 1940 (Plates 1 and 2). However, the photograph seems to show the southern part of the present site at least as already open at that date.

Old and New Statistical Accounts

This site falls into the parish of Cromarty, surveyed by Rev. R. Smith in the Old Statistical Account of the 1790's and the New Statistical Account by Rev. A. Stewart around 50 years later. In neither account is Oswald Lane mentioned, and it is not possible to suggest any features directly associated with the development plot from these accounts. However they do confirm the map evidence that the town of Cromarty has shifted west over the centuries.

Conclusions

It was clear from the initial desk-based assessment that some remains of previous buildings on the site could be expected. The possibility of evidence of earlier, unrecorded structures was noted.



Plate 1 Oswald Lane from the north, following the 1940 flood
(Courtesy of <http://www.thecromartyarchive.org>)



Plate 2 Oswald Lane from the north, December 2014

Fieldwork

Photography of the site as existing and during the work was undertaken by Zoulla Spirou and John Wood⁶. Archaeological contexts allocated are shown in square brackets in the text.



Plate 3 The site pre-start

Site clearance was monitored to record any features or artefacts of archaeological interest that might appear. A back-acting digger (fitted with a straight-edged bucket to provide a clean scrape) was used with care and under archaeological supervision to clean back topsoil and overburden. The working area was limited by the site boundaries, the road and surrounding buildings.

Initial pre-start photographs were taken by Zoulla Spirou, the site owner. These show garden ground [1] with a wall running parallel to Oswald Lane and about 4.4m back from it. This wall retained approximately 1.1m depth of soil to the west. The considerable depth of topsoil suggests that soil has been imported to level up the garden, but there is also a natural slope here which continues down Gordon's Lane to the east (Plate 3).

Removal of the modern wooden fence along the roadside was followed shortly afterwards by (unobserved) excavation of a test pit to establish levels at the north end of the site. This removed part of a stone wall end projecting into the site from the north-east, which was subsequently identified as a corner of a former house (House B; context [3]). It was found to be well built of quarried, partly dressed sandstone. Below it there appeared to be evidence of trampled surfaces [13] (Plate 4).

⁶ Photos in this report are taken by JW except where marked 'ZS' which are by Z Spirou



Plate 4 Soil level in garden to NW retained by wall following test pit excavation (photo: ZS)

Clearance of concrete at the south end of the site demonstrated that the wall visible in the garden was apparently part of the back wall of a former house [4,5]. It was assumed that this had been swept away by the flood of 1940, especially as the 1938 resurvey by the Ordnance Survey shows a building here⁷, but close inspection of the photo taken at that time (Plate 1) seems to show that this plot was open at that time, with a boundary wall along the side of the lane, topped with coping stones. So although there had been a terrace of houses on this site, including in 1938 if the Ordnance Survey is correct, the southern one occupying most of the present area (House A) seems to have been demolished before the flood. The northern end of the site coincides with the former gable wall of another house (House B) which the photo shows was destroyed by the flooding in 1940.

As excavation progressed it became clear that one reason the floods caused such destruction was that these houses, like most Cromarty houses, had no foundations and in this case were laid directly on sand which had been washed out by the floods. At the time no doubt Oswald Lane was apparently not metalled, so erosion would have been severe.

The wall running through the site could be divided into several sections. For the most part it had formed the back wall of a house standing on the site itself (House A)[5]. It was poorly built of rounded beach or field stones bonded with clay rather than quarried sandstone, and appeared to have been constructed as a revetment with no outer (north-west) face. The inner (south-eastern) face showed traces of lime plaster or harl at the southern end. No evidence was found to indicate when this wall was constructed. The wall appeared to have been rebuilt at the southern end, with some lime mortar included in the bonding [3]. (Plate 6).

⁷ OS I:10560 map, Ross and Cromarty sheet LXVI, revised 1938

Very soon after it was exposed and cleaned, rain penetrated the clay bonding and a section of it collapsed (Plate 7).



Plate 5 Wall (House A) as initially exposed



Plate 6 S end of wall from SE: no foundations, built on sand. This section was clearly a repair and contained lime mortar.

The wall was photographed in detail: see the appendix below.



Plate 7 Wall collapse following rain (N end of house A)

At the north-east end of the site a much more substantial, lime mortar bonded, sandstone wall on the same alignment formed the back of another house (House B)[3]. There were traces of a possible return but on investigation this appeared ephemeral and likely to represent demolition surface [13] and built-up debris [7]. The line lay lay along the north-eastern boundary of the site (Plate 8).



Plate 8 North corner of site following initial clean, showing destruction layer over natural sand

Between House A and House B there had apparently been a gap at one time, forming a narrow alleyway. This had been blocked at some point with an infill along the back wall alignment of rounded, clay-bonded beach or field stone [2] (Plate 3). No gap is shown on the first edition OS 1:2500 map, but the boundary between the two properties appears on the map along the southern wall line. The northern house is of better and perhaps later construction. The blocking must have occurred before, or at the time that, the ground levels were built up in the garden to the rear (Plates 9, 10).



Plate 9 Blocking in wall between buildings A (left) and B (right).

View from SE. Rectified photograph, 1m frame in 20cm divisions



Plate 10 Blocked alley between Houses A and B.

Note line of rounded stones on line of House A gable return [6], under left side of planning frame.

An area of mainly dark, mixed deposits with inclusions of mortar and rubble was visible in the north corner of the site, extending SE from the wall about 2.9m towards the lane and about 2.15m SW from the northern trench edge [7]. It extended to a maximum depth of c.5 cm. One area of this (Plate 10, to right of planning frame) appeared initially to be a structure but after investigation was interpreted as collapse. A section 1m x 1m was taken through the eastern corner of these deposits (Figures 9, 10; Plate 11) The section was placed so as to pick up any surviving wall line of house B, but none was found and it seems this had been demolished entirely (Plates 8, 9). This material was all found to represent destruction and / or demolition debris. The rest of this layer was then removed archaeologically but no artefacts or further structures were found.

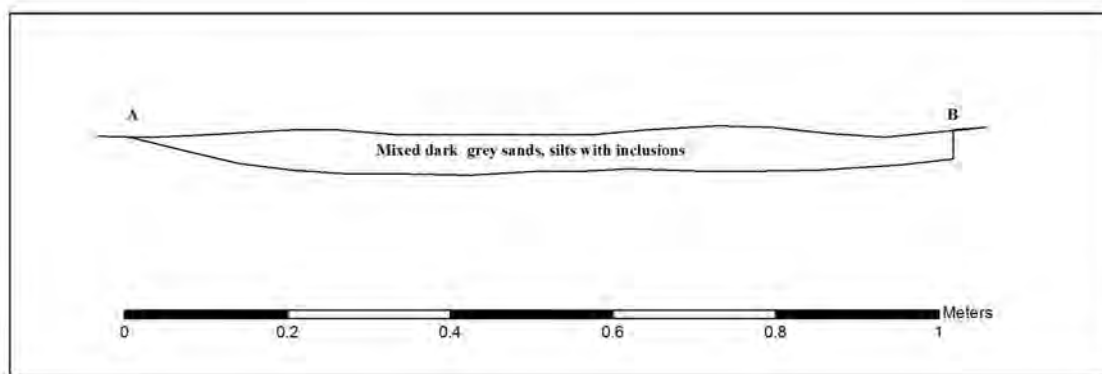


Figure 9 SE facing section through deposit (Section 1)



Plate 11 Section 1: Profile of destruction debris in north corner of site

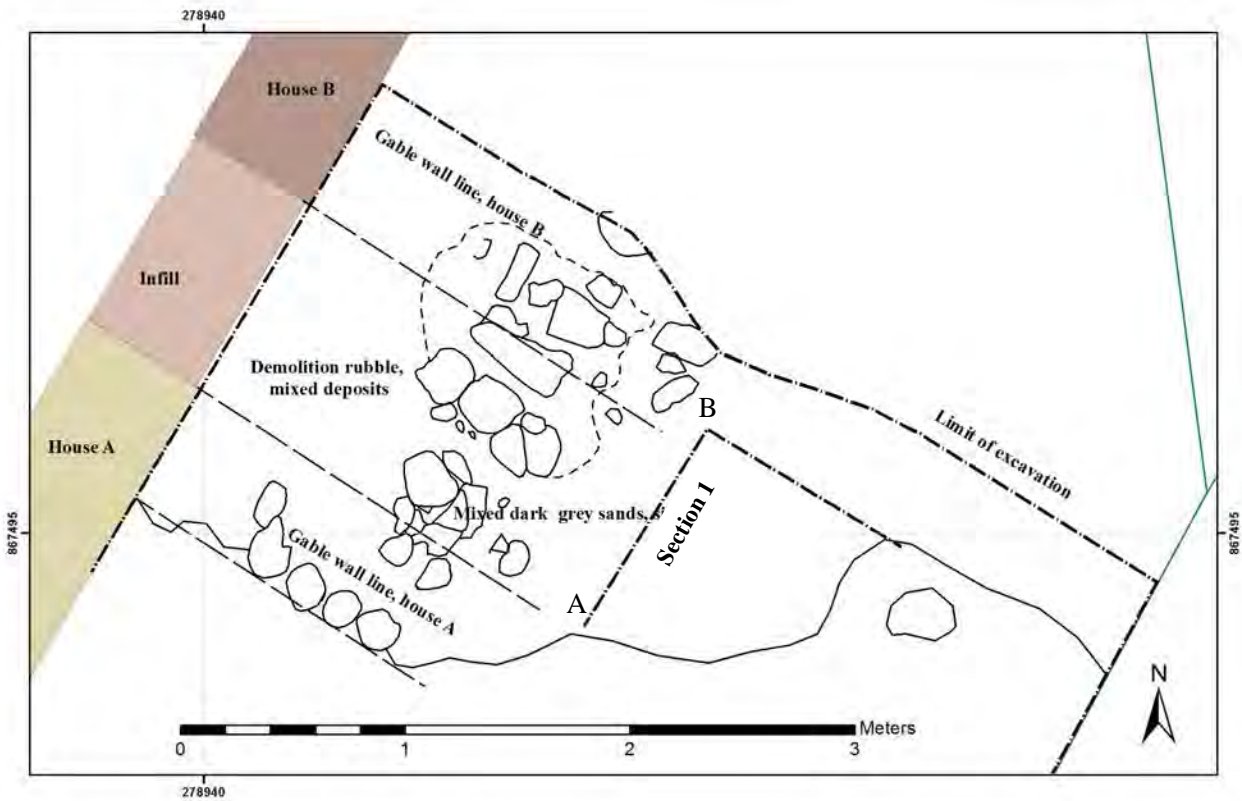


Figure 10 North end of trench showing boundary between house A and house B

House A therefore seems to have been relatively poorly constructed of field or beach stone, and bonded with clay. House B was much more substantially built using quarried and partly dressed sandstone and bonded with lime, although this also contained rounded field or beach pebbles, but was apparently destroyed in the 1940 flood.



Plate 12 Surface of coal cellar after cleaning

In the southern end of House A, clearance revealed the outline of a filled-in coal cellar [8,9,10]. This appeared to be simply a rectangular pit. This was roughly rectangular, and lined with field or beach stone with some clay bonding [9]. It measured approximately 2.7m by 1.55m. internally. The western side measured slightly longer at 1.8m, apparently owing to surface damage by the digger during excavation (Figure 11).

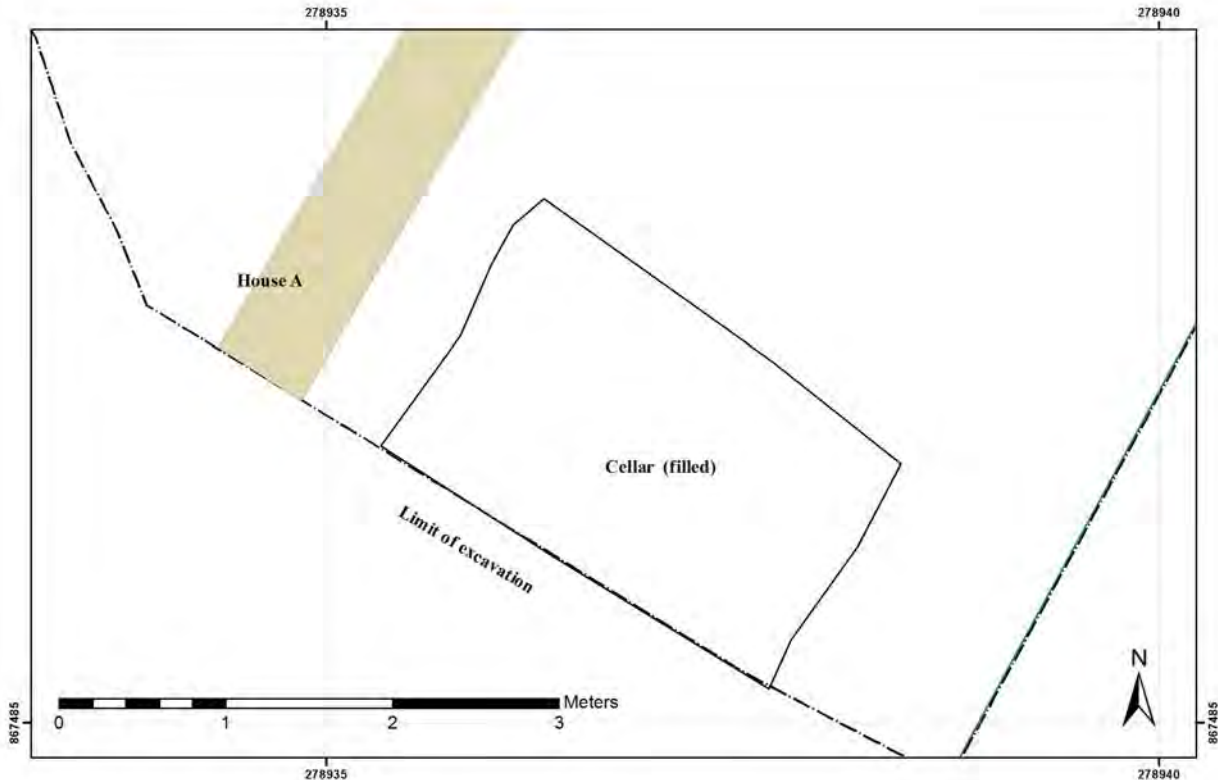


Figure 11 Cellar, House A

It became apparent that this cellar area lies outside the footprint of the proposed new house and will be left undisturbed by the present development. It was therefore left in situ and covered over. Various household items were found in the surface of the infill [10] including cutlery, broken china, some iron objects and the workings of a small clock. These all appeared to be of early-mid 20th c. date and probably represent debris from the flood used to fill the cellar in 1940. They were unstratified, and not retained.

Neither any floor levels, nor the roadside wall survived in House A, and only a short row of rounded stones [6] indicated the probable line of the northern gable. House B lay almost entirely outwith the trench, apart from its southern gable, which again had been completely removed.

In the area between the two gable walls only a disturbed trampled surface [13] over mixed demolition debris [7] was found, continuing down onto clean sand [11]. No traces of possible cobbling or similar surfaces that might be associated with the former alleyway.



Plate 13 Unstratified artefacts from the surface of the cellar fill

Conclusions

The watching brief revealed the west (retaining) wall [4], coal cellar [8,9,10] and fragmentary evidence of the north gable [6] of a house on this site (House A). This appears to correspond to a building shown on the 1938 Ordnance Survey revised 6-inch map, which according to the photograph (Plate 1) had already been demolished before the 1940 flood. The south gable line was not found and apparently lies outwith the development footprint. There had been some rebuilding done to the back wall apparently during the life of this building or perhaps as part of a more general rebuilding. This repair appeared to be lime mortar bonded [4]. There was no dating evidence to indicate when this house was built.

The coal cellar within house A was surface mapped but not excavated. It has been retained in situ within the development. This was a separate structure, there was no discernible stratigraphic relationship between this and wall [4, 5]

The southern end of another house (house B), more substantially built of sandstone with lime mortar bonding [3], was noted in the north end of the trench. This clearly collapsed in the flood of 1940. The construction of house A was much poorer than house B, although the walls of both contained rounded field or beach pebbles. The walls of A were mainly of beach or field stone, and clay bonded, except where repaired [4].

Between the two was a gap about 1m wide. Trample and rubble debris formed the surface here: there was no sign of a constructed surface [13,7]. The western side of this gap had been blocked by a revetting wall made of rounded cobbles packed with clay [2].

Buildings with a similar footprint were shown here on the 1830 map. However, nothing remained of the road frontages or floor levels of either of the former houses.

No further archaeological work is recommended at this site, though further evidence of the development of this part of Cromarty should be sought if other developments take place nearby in future.

Stratigraphy

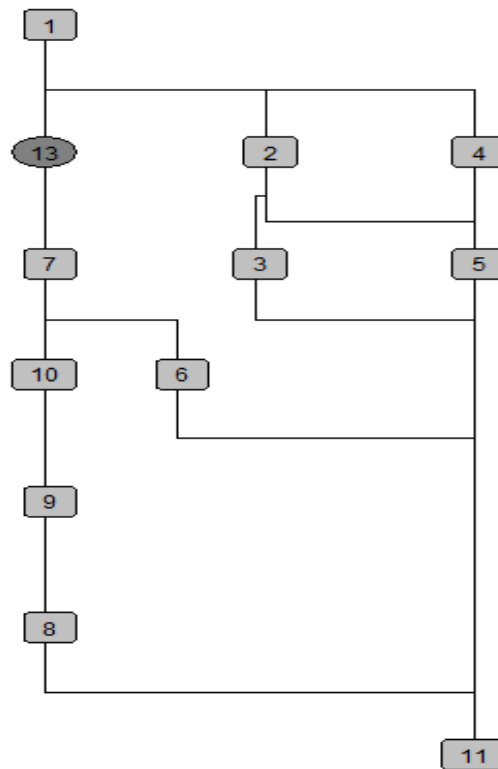


Figure 12 Stratigraphic diagram (Harris Matrix)

Table 1 Contexts

Ctxt No	Type	Earlier than	Equal to	Later than	Description / interpretation
1	Deposit	-		13,2,4	Overburden, garden soil
2	Structure	1		3,5	Blocking wall: rounded pebbles
3	Structure	2		11	Wall of building B: rough dressed sandstone, lime mortar bonding
4	Structure	1		5	repair to wall of Bdg A: rounded pebbles; replaced section, lime mortared and harled on inside
5	Structure	4		11	Wall of building A: rounded pebbles, clay bonded
6	Structure	7		11	Bdg A N gable - (remains of) – a line of rounded pebbles similar to those in [5]
7	Deposit	13		6, 10	Mixed destruction debris, including wall stones, dark clay and ash, and lime mortar.
10	Deposit	7		9	Cellar fill: dark grey organic silt / soil material containing large quantities of mid 20 th c. artefacts
9	Structure	10		8	cellar lining: rounded pebbles revetting the sides – clay bonded
8	Cut	9		11	cellar cut
11	Natural	8, 6, 3, 5		-	natural: clean yellow sand
12	deleted				
13	Trampled Surface of 7	1		7	Demolition surface

Photographs

Photographs (camera points) are located on Figures 14-16 below.

Table 2 Client Photos

Photo No.	Location	Direction	Subject	Taken by	Date
DSCF5985	35	SW	Fence	ZS	03/11/14
DSCF5986	35	W	Fence	ZS	03/11/14
DSCF5987	35	NW	Fence	ZS	03/11/14
DSCF5988	13	W	Fence	ZS	03/11/14
DSCF5989	49	SSW	Outhouse	ZS	03/11/14
DSCF5990	49	SSW	Outhouse	ZS	03/11/14
DSCF5991	50	W	Site Pre-ex	ZS	03/11/14
DSCF5992	50	W	Site Pre-ex	ZS	03/11/14
DSCF5993	28	NNE	Corner of N house wall	ZS	03/11/14
DSCF5994	48	NNE	Fence	ZS	03/11/14
DSCF5995	35	W	Fence	ZS	03/11/14
DSCF5996	50	W	Garden wall	ZS	03/11/14
DSCF5997	50	W	Garden wall	ZS	03/11/14
DSCF5998	50	WNW	Garden wall	ZS	03/11/14
DSCF5999	16	ESE	Garden wall	ZS	03/11/14
DSCF6000	28	NE	Wall, fence	ZS	03/11/14
DSCF6001	28	ESE	Wall	ZS	03/11/14
DSCF6002	28	SE	Wall	ZS	03/11/14
DSCF6003	28	SE	Wall	ZS	03/11/14
DSCF6004	28	E	Wall	ZS	03/11/14
DSCF6005	52	SW	Wall	ZS	03/11/14
DSCF6006	52	SW	Wall	ZS	03/11/14
DSCF6009	13	WSW	View up Oswald Lane; fence	ZS	03/11/14
DSCF6010	26	SW	View up Oswald Lane; fence	ZS	03/11/14
DSCF6011	37	NNW	View across Oswald Lane; fence	ZS	03/11/14
DSCF6012	36	NW	View across Oswald Lane; fence	ZS	03/11/14
DSCF6013	35	W	View across Oswald Lane; fence	ZS	03/11/14
DSCF6014	48	NE	View down Oswald Lane; fence	ZS	08/11/14
DSCF6015	49	NW	View in plot showing garden wall	ZS	03/11/14
DSCF6016	45	NW	View in plot showing garden wall	ZS	03/11/14
DSCF6017	47	WNW	View in plot showing garden wall	ZS	03/11/14
DSCF6018	46	WSW	View in plot showing garden wall	ZS	03/11/14
DSCF6019	27	WNW	View in plot showing garden wall	ZS	03/11/14
DSCF6020	43	WNW	View in plot showing old wall with corner	ZS	03/11/14

Photo No.	Location	Direction	Subject	Taken by	Date
DSCF6021	52	WNW	View in plot showing old central wall	ZS	03/11/14
DSCF6022	20	WNW	View in plot showing garden wall	ZS	03/11/14
DSCF6023	50	NW	View in plot showing garden wall	ZS	03/11/14
DSCF6024	14	NE	View in plot showing old flower bed wall	ZS	03/11/14
DSCF6025	51	SSE	View in plot showing garden wall	ZS	03/11/14
DSCF6026	28	ENE	View in plot showing old wall with corner	ZS	03/11/14
DSCF6027	38	ESE	Detail of wall section	ZS	03/11/14
DSCF6028	39	ESE	Detail of wall section	ZS	03/11/14
DSCF6029	40	ESE	Detail of wall section showing wood	ZS	03/11/14
DSCF6030	41	ESE	View over wall section	ZS	03/11/14
DSCF6031	42	SE	View over wall section	ZS	03/11/14
DSCF6032	28	NNE	Detail of wall section	ZS	03/11/14
DSCF6033	44	S	View from plot showing lean-to outhouses	ZS	08/11/14
DSCF6034	16	SE	View from plot showing lean-to outhouses	ZS	03/11/14
DSCF6037	14	NNE	Wall [5]	ZS	17/12/14
DSCF6038	52	WNW	Wall [5]	ZS	17/12/14
DSCF6039	43	WSW	Wall [5]	ZS	17/12/14
DSCF6040	14	NNE	Wall [5]	ZS	17/12/14
DSCF6041	16	NE	Wall [5]	ZS	17/12/14
DSCF6042	16	E	Wall [5]	ZS	17/12/14
DSCF6043	28	ESE	Wall [5]	ZS	17/12/14
DSCF6044	28	SSW	Wall [5]	ZS	17/12/14
DSCF6045	31	SSW	Wall [5]	ZS	17/12/14
DSCF6046	27	N	Wall [5]	ZS	17/12/14
DSCF6047	19	W	Wall [5]	ZS	17/12/14
DSCF6050	19	N	Wall [5]	ZS	18/12/14
DSCF6051	43	NW	Wall [5]	ZS	18/12/14
DSCF6052	43	W	Wall [5]	ZS	18/12/14
DSCF6053	52	WNW	Wall [5]	ZS	18/12/14
DSCF6054	52		Wall [5]	ZS	18/12/14
DSCF6055	52		Wall [5]	ZS	18/12/14
DSCF6056	52		Wall [5]	ZS	18/12/14
DSCF6057	52	WNW	Wall [5]	ZS	18/12/14
DSCF6058	52	WNW	Wall [5]	ZS	18/12/14
DSCF6059	10	WNW	Wall [5]	ZS	18/12/14
DSCF6060	-		Oil tank before relocation	ZS	18/12/14
DSCF6061	-		Artefacts from surface of cellar area	ZS	19/12/14
DSCF6062	22	WSW	Wall repair [4]	ZS	19/12/14
DSCF6063	22	W	Wall repair [4]	ZS	19/12/14
DSCF6064	10	WNW	Wall blocking [2] and apparent return of S gable, house B - before excavation	ZS	19/12/14
DSCF6065	10	WNW	surface [13]	ZS	19/12/14
DSCF6066	52	WNW	Wall end. House B	ZS	19/12/14
DSCF6067	52	WNW	Wall Blocking [2]	ZS	19/12/14

Photo No.	Location	Direction	Subject	Taken by	Date
DSCF6068	14	ESE	Starting clean of cellar fill surface	ZS	19/12/14
DSCF6082	22	NW	Starting clean of cellar fill surface	ZS	19/12/14
DSCF6083	22	NW	cellar surface clean - dressed stone in infill	ZS	19/12/14
DSCF6084	20	WNW	cellar surface clean in progress	ZS	19/12/14
DSCF6085	22	NW	cellar surface clean in progress	ZS	19/12/14
DSCF6087	14	ESE	cellar surface clean in progress	ZS	19/12/14
DSCF6088	48	W	cellar surface clean in progress	ZS	19/12/14
DSCF6089	approx 17	SSW	cellar surface clean in progress	ZS	19/12/14
DSCF6090	47	WNW	lime harl on wall [4,5]	ZS	19/12/14
DSCF6091	47	NNW	lime harl on wall [4,5]	ZS	19/12/14
DSCF6092	46	SW	wall [5]	ZS	19/12/14
DSCF6093	14	NNE	wall [5]	ZS	19/12/14
DSCF6094	51	ESE	cellar surface clean in progress	ZS	19/12/14
DSCF6095	approx 31	SE	wall [5]	ZS	19/12/14
DSCF6096	approx 31	E	wall [5]	ZS	19/12/14
DSCF6097	approx 32	ESE	wall [5]	ZS	19/12/14
DSCF6098	approx 32	E	wall [5]	ZS	19/12/14
DSCF6099	40	SE	wall [5]	ZS	19/12/14
DSCF6100	40	SE	wall [5]	ZS	19/12/14
DSCF6101	28	SSW	wall [5]	ZS	19/12/14
DSCF6102	38	SSE	breaking concrete	ZS	19/12/14
DSCF6103	31	S	wall [5]	ZS	19/12/14
DSCF6104	48	NW	wall [5]	ZS	19/12/14
DSCF6105	48	N	breaking concrete	ZS	19/12/14
DSCF6106	26	WNW	breaking concrete	ZS	19/12/14
DSCF6107	13	WNW	breaking concrete	ZS	19/12/14
DSCF6108	34	SW	breaking concrete	ZS	19/12/14
DSCF6109	10	WNW	Section 1	ZS	19/12/14
DSCF6110	10	WNW	Section1, [13], [7]	ZS	19/12/14
DSCF6111	10	WNW	Section1, [13], [7]	ZS	19/12/14
DSCF6112	10	WNW	Section1, [13], [7]	ZS	19/12/14

Table 3 HAS Photographs

All photography by digital SLR: DSC = Nikon D40; IMG P = Pentax 1stD

Photo No.	Location (CP)	Direction	Subject	Taken by	Date
DSC_0062	1	ESE	View from site	JW	15/12/14
DSC_0063	1	N	View to site	JW	15/12/14
DSC_0064	1	WNW	View to site	JW	15/12/14
DSC_0065	1	SW	View to site	JW	15/12/14
DSC_0066	2	NNE	Oswald Lane	JW	15/12/14
DSC_0067	2	N	Oswald Lane	JW	15/12/14
DSC_0068	2	WNW	Oswald Lane	JW	15/12/14
DSC_0069	3	NNE	Oswald Lane	JW	15/12/14

Photo No.	Location (CP)	Direction	Subject	Taken by	Date
DSC_0070	4	SSW	Oswald Lane	JW	15/12/14
DSC_0071	4	SSW	Oswald Lane (Zoom)	JW	15/12/14
DSC_0072	5	NE	Site on arrival	JW	15/12/14
DSC_0073	5	NE	Site on arrival	JW	15/12/14
DSC_0074	5	N	Site on arrival	JW	15/12/14
DSC_0075	5	N	Site on arrival	JW	15/12/14
DSC_0076	5	N	Site on arrival	JW	15/12/14
DSC_0077	5	NW	Site on arrival	JW	15/12/14
DSC_0078	5	WNW	Site on arrival	JW	15/12/14
DSC_0079	6	SE	Site on arrival	JW	15/12/14
DSC_0080	6	E	Site on arrival	JW	15/12/14
DSC_0081	6	ENE	Site on arrival	JW	15/12/14
DSC_0082	6	NE	Site on arrival	JW	15/12/14
DSC_0083	6	NNE	Site on arrival	JW	15/12/14
DSC_0084	6	N	Site on arrival	JW	15/12/14
DSC_0085	7	SSW	General site view	JW	15/12/14
DSC_0086	7	S	General site view	JW	15/12/14
DSC_0087	7	SSE	General site view	JW	15/12/14
DSC_0088	7	SE	General site view	JW	15/12/14
DSC_0089	8	SE	General site view	JW	15/12/14
DSC_0090	9	E	General site view	JW	15/12/14
DSC_0091	9	SE	General site view	JW	15/12/14
DSC_0092	9	SSE	General site view	JW	15/12/14
DSC_0093	9	S	General site view	JW	15/12/14
DSC_0094	10	NW	General site view	JW	15/12/14
DSC_0095	10	WNW	General site view	JW	15/12/14
DSC_0096	10	WSW	General site view	JW	15/12/14
DSC_0097	10	SW	General site view	JW	15/12/14
DSC_0098	10	SSW	General site view	JW	15/12/14
DSC_0099	10	WNW	General site view: Wall partly demolished	JW	16/12/14
DSC_0100	10	WNW	General site view: Wall partly demolished	JW	16/12/14
DSC_0101	10	WNW	General site view: Wall partly demolished	JW	16/12/14
DSC_0102	11	N	General site view	JW	16/12/14
DSC_0103	11	N	General site view	JW	16/12/14
DSC_0104	12	NNE	General site view	JW	16/12/14
DSC_0105	10	WNW	General site view	JW	16/12/14
DSC_0106	10	WNW	General site view	JW	16/12/14
DSC_0107	2	NE	General site view: Fence removed	JW	16/12/14
DSC_0108	13	NW	General site view: Fence removed	JW	16/12/14
DSC_0109	5 (Approx)	NE	General site view: Site clearance starts	JW	16/12/14
DSC_0110	5 (Approx)	NE	General site view: Site clearance starts	JW	16/12/14
IMGP0511	18	NNW	General site view	JW	16/12/14
IMGP0512	10 approx	NW	Wall corner - N building	JW	16/12/14
IMGP0513	10 approx	NW	Wall corner - N building	JW	16/12/14

Photo No.	Location (CP)	Direction	Subject	Taken by	Date
IMGP0514	10 approx	NW	Wall corner - N building	JW	16/12/14
IMGP0515	10 approx	NW	Wall corner - N building and blocking in gap	JW	16/12/14
IMGP0516	10 approx	NW	Wall corner - N building and blocking in gap	JW	16/12/14
IMGP0517	10 approx	NW	Wall corner - N building and blocking in gap	JW	16/12/14
IMGP0518	-	NW	Wall from SE side, working N-S	JW	16/12/14
IMGP0519	-	NW	Wall from SE side, working N-S	JW	16/12/14
IMGP0520	-	NW	Wall from SE side, working N-S	JW	16/12/14
IMGP0521	-	NW	Wall from SE side, working N-S	JW	16/12/14
IMGP0522	-	NW	Wall from SE side, working N-S	JW	16/12/14
IMGP0523	-	NW	Wall from SE side, working N-S	JW	16/12/14
IMGP0524	-	NW	Wall from SE side, working N-S	JW	16/12/14
IMGP0525	-	NW	Wall from SE side, working N-S	JW	16/12/14
IMGP0526	-	NW	Wall from SE side, working N-S	JW	16/12/14
IMGP0527	-	NW	Wall from SE side, working N-S	JW	16/12/14
IMGP0528	-	NW	Wall from SE side, working N-S	JW	16/12/14
IMGP0529	-	NW	Wall from SE side, working N-S	JW	16/12/14
IMGP0530	-	NW	Wall from SE side, working N-S	JW	16/12/14
IMGP0531	14	NE (up)	Wall from S end	JW	16/12/14
IMGP0532	14	NE (down)	1940s cermics and glass from adjoining cellar fill	JW	16/12/14
IMGP0533	14	NE (down)	Wall - harl staining, E face, S end	JW	16/12/14
IMGP0534	Deleted			JW	16/12/14
IMGP0535	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0536	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0537	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0538	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0539	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0540	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0541	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0542	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0543	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0544	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0545	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0546	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0547	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0548	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0549	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0550	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0551	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0552	-	SE	Wall from NW side, working N-S	JW	16/12/14
IMGP0553	14	NE	View along wall	JW	16/12/14
IMGP0554	14	NE	View along wall	JW	16/12/14
DSC_0111	14	NE	House / revetting wall on line of garden wall - initial clean	JW	16/12/14

Photo No.	Location (CP)	Direction	Subject	Taken by	Date
DSC_0112	-		Wall from NW side - sequence S-N	JW	16/12/14
DSC_0113	-		Wall from NW side - sequence S-N	JW	16/12/14
DSC_0114	-		Wall from NW side - sequence S-N	JW	16/12/14
DSC_0115	-		Wall from NW side - sequence S-N	JW	16/12/14
DSC_0116	-		Wall from NW side - sequence S-N	JW	16/12/14
DSC_0117	-		Wall from NW side - sequence S-N	JW	16/12/14
DSC_0118	-		Wall from NW side - sequence S-N	JW	16/12/14
DSC_0119	-		Wall from NW side - sequence S-N	JW	16/12/14
DSC_0120	-		Wall from NW side - sequence S-N	JW	16/12/14
DSC_0121	14	NE	House / revetting wall on line of garden wall - initial clean	JW	16/12/14
DSC_0122	-		Wall top S-N	JW	16/12/14
DSC_0123	-		Wall top S-N	JW	16/12/14
DSC_0124	-		Wall top S-N	JW	16/12/14
DSC_0125	-		Wall top S-N	JW	16/12/14
DSC_0126	-		Wall top S-N	JW	16/12/14
DSC_0127	-		Wall top S-N	JW	16/12/14
DSC_0128	-		Wall top S-N	JW	16/12/14
DSC_0129	-		Wall top S-N	JW	16/12/14
DSC_0130	-		Wall top S-N	JW	16/12/14
DSC_0131	Deleted			JW	16/12/14
DSC_0132	14	NE	wall top	JW	16/12/14
DSC_0133	-		Wall top S-N	JW	16/12/14
DSC_0134	-		Wall top S-N	JW	16/12/14
DSC_0135	-		Wall top S-N	JW	16/12/14
DSC_0136	-		Wall top S-N	JW	16/12/14
DSC_0137	-		Wall top S-N	JW	16/12/14
DSC_0138	-		Wall top S-N	JW	16/12/14
DSC_0139	-		Wall top S-N	JW	16/12/14
DSC_0140	-		Wall top S-N	JW	16/12/14
DSC_0141	-		Wall top S-N	JW	16/12/14
DSC_0142	-		Wall top S-N	JW	16/12/14
DSC_0143	-		Wall top S-N	JW	16/12/14
DSC_0144	-		Wall top S-N	JW	16/12/14
DSC_0145	-		Wall top S-N	JW	16/12/14
DSC_0146	-		Wall top S-N	JW	16/12/14
DSC_0147	-		Wall top S-N	JW	16/12/14
DSC_0148	-		Wall top S-N	JW	16/12/14
DSC_0149	-		Wall top S-N	JW	16/12/14
DSC_0150	-		Wall top S-N	JW	16/12/14
DSC_0151	-		Wall top S-N	JW	16/12/14
DSC_0152	-		Wall top S-N	JW	16/12/14
DSC_0153	-		Wall top S-N	JW	16/12/14
DSC_0154	-		Wall top S-N	JW	16/12/14

Photo No.	Location (CP)	Direction	Subject	Taken by	Date
DSC_0155	-		Wall top S-N	JW	16/12/14
DSC_0156	-		Wall top S-N	JW	16/12/14
DSC_0157	10 approx	NW	Wall corner, N buildng	JW	16/12/14
DSC_0158	10 approx	NW	Wall corner, N buildng	JW	16/12/14
DSC_0159	10 approx	W	Wall corner, N buildng	JW	16/12/14
DSC_0160	15	SSW	along wall	JW	16/12/14
DSC_0161	15	SSW	along wall	JW	16/12/14
DSC_0162	16	NE		JW	16/12/14
IMGP0555	19	NE	Destruction levels	JW	18/12/14
IMGP0556	10	NW	Destruction levels	JW	18/12/14
IMGP0557	10	WSW	View across site	JW	18/12/14
IMGP0558	10	NW	Destruction levels	JW	18/12/14
IMGP0559	20	WNW	E face of wall - sequence moving N	JW	18/12/14
IMGP0560	-	WNW	E face of wall - sequence moving N	JW	18/12/14
IMGP0561	-	WNW	E face of wall - sequence moving N	JW	18/12/14
IMGP0562	-	WNW	E face of wall - sequence moving N	JW	18/12/14
IMGP0563	-	WNW	E face of wall - sequence moving N	JW	18/12/14
IMGP0564	-	WNW	E face of wall - sequence moving N	JW	18/12/14
IMGP0565	-	WNW	E face of wall - sequence moving N	JW	18/12/14
IMGP0566	-	WNW	E face of wall - sequence moving N	JW	18/12/14
IMGP0567	-	WNW	E face of wall - sequence moving N	JW	18/12/14
IMGP0568	-	WNW	E face of wall - sequence moving N	JW	18/12/14
IMGP0569	-	WNW	E face of wall - sequence moving N	JW	18/12/14
IMGP0570	-	WNW	E face of wall - sequence moving N	JW	18/12/14
DSC_0163	11	SW	View across site	JW	18/12/14
DSC_0164	11	SW	View across site	JW	18/12/14
DSC_0165	11	W	View across site	JW	18/12/14
DSC_0166	11	WNW	View across site	JW	18/12/14
DSC_0167	11	NW	View across site	JW	18/12/14
DSC_0168	11	NNW	View across site	JW	18/12/14
DSC_0169	11	NW	View across site	JW	18/12/14
DSC_0170	10	NW	N edge of site	JW	18/12/14
DSC_0171	10	WNW	Wall collapse	JW	18/12/14
DSC_0172	11	SSW	Working shot - initial clearance of cellar area	JW	18/12/14
DSC_0173	11	WNW	Wall collapse	JW	18/12/14
DSC_0174	16	WNW	Wall collapse	JW	18/12/14
DSC_0175	16	WSW	Wall	JW	18/12/14
DSC_0176	16	SW	Wall	JW	18/12/14
DSC_0177	16	W	Wall	JW	18/12/14
DSC_0178	16	WNW	Wall	JW	18/12/14
IMGP0571	21	WNW	working shot	JW	18/12/14
IMGP0572	21	WNW	Cellar area cleaned	JW	18/12/14
IMGP0573	22	NE	Cellar area cleaned	JW	18/12/14

Photo No.	Location (CP)	Direction	Subject	Taken by	Date
IMGP0574	5	NE	Cellar area cleaned	JW	18/12/14
IMGP0575	5	NE	Cellar area cleaned	JW	18/12/14
IMGP0576	14 (down)	NE	Cellar area cleaned	JW	18/12/14
IMGP0577	23	W	Cellar area cleaned	JW	18/12/14
IMGP0578	17 (approx)	SSW	Cellar area cleaned	JW	18/12/14
IMGP0579	17 (approx)	SSW	Cellar area cleaned	JW	18/12/14
IMGP0580	5	NE	Cellar area cleaned	JW	18/12/14
IMGP0581	21	WNW	Cellar area cleaned	JW	18/12/14
IMGP0582	14 (down)	NE	Cellar area cleaned	JW	18/12/14
IMGP0583	14	NE	View along wall	JW	18/12/14
IMGP0584	16	NE	View across site	JW	18/12/14
IMGP0585	16	E	View across site	JW	18/12/14
IMGP0586	16	SE	View across site	JW	18/12/14
IMGP0587	24	SW	W cellar wall	JW	18/12/14
IMGP0588	5(down)	NE	Finds from surface of cellar infill	JW	18/12/14
IMGP0589	5(down)	NE	Finds from surface of cellar infill	JW	18/12/14
IMGP0590	22 (down)	NE	E cellar wall	JW	18/12/14
IMGP0591	25	SE	W cellar wall	JW	18/12/14
IMGP0592	25	SE	W cellar wall	JW	18/12/14
IMGP0593	25	E	Cellar wall	JW	18/12/14
IMGP0594	22	N	View across site	JW	18/12/14
IMGP0595	26	W	View across site	JW	18/12/14
IMGP0596	26	WNW	View across site	JW	18/12/14
IMGP0597	26	NW	View across site	JW	18/12/14
IMGP0598	13	WNW	View across site	JW	18/12/14
IMGP0599	13	WNW	View across site	JW	18/12/14
IMGP0600	17 approx	NE	View across site	JW	18/12/14
IMGP0601	27	NE	View across site	JW	18/12/14
IMGP0602	27	NE	View across site	JW	18/12/14
IMGP0603	28	SE (down)	View across site	JW	18/12/14
IMGP0604	28	SE (down)	End wall, N house	JW	18/12/14
IMGP0605	28	SE (down)	End wall, N house	JW	18/12/14
IMGP0606	28	SE (down)	End wall, N house	JW	18/12/14
IMGP0607	28	SE (down)	End wall, N house	JW	18/12/14
IMGP0608	28	SE (down)	End wall, N house	JW	18/12/14
IMGP0609	29	SW	End wall, N house	JW	18/12/14
IMGP0610	29	SW	End wall, N house	JW	18/12/14
IMGP0611	29	SW	End wall, N house	JW	18/12/14
IMGP0612	29	SW	End wall, N house	JW	18/12/14
IMGP0613	29	SW	End wall, N house	JW	18/12/14
IMGP0614	29	SW	End wall, N house	JW	18/12/14
IMGP0615	29	SW	End wall, N house	JW	18/12/14
IMGP0616	10	NW	End wall, N house	JW	18/12/14

Photo No.	Location (CP)	Direction	Subject	Taken by	Date
IMGP0617	Approx. 52	-	End wall, N house	JW	18/12/14
IMGP0618	Approx. 52	-	End wall, N house	JW	18/12/14
IMGP0619	Approx. 52	-	End wall, N house	JW	18/12/14
IMGP0620	Approx. 52	-	End wall, N house	JW	18/12/14
IMGP0621	Approx. 52	-	End wall, N house	JW	18/12/14
IMGP0622	Approx. 52	-	End wall, N house	JW	18/12/14
IMGP0623	Approx. 52	-	packed rubble - destruction debris?	JW	18/12/14
IMGP0624	Approx. 52	-	packed rubble - destruction debris?	JW	18/12/14
IMGP0625	Approx. 52	-	packed rubble - destruction debris?	JW	18/12/14
IMGP0626	Approx. 52	-	packed rubble - destruction debris?	JW	18/12/14
IMGP0627	Approx. 52	-	packed rubble - destruction debris?	JW	18/12/14
IMGP0628	Approx. 52	-	packed rubble - destruction debris?	JW	18/12/14
IMGP0629	Approx. 52	-	packed rubble - destruction debris?	JW	18/12/14
IMGP0630	Approx. 52	-	packed rubble - destruction debris?	JW	18/12/14
IMGP0631	Approx. 52	-	packed rubble - destruction debris?	JW	18/12/14
IMGP0632	Approx. 52	-	packed rubble - destruction debris?	JW	18/12/14
IMGP0633	Approx. 52	-	packed rubble - destruction debris?	JW	18/12/14
IMGP0634	Approx. 52	-	packed rubble - destruction debris?	JW	18/12/14
IMGP0635	Approx. 52	-	packed rubble - destruction debris?	JW	18/12/14
IMGP0636	Approx. 52	-	packed rubble - destruction debris?	JW	18/12/14
IMGP0637	Approx. 52	-	packed rubble - destruction debris?	JW	18/12/14
IMGP0638	Approx. 52	-	packed rubble - destruction debris?	JW	18/12/14
IMGP0639	13	WNW	View across site	JW	19/12/14
IMGP0640	11	NE		JW	19/12/14
IMGP0641	11	N		JW	19/12/14

Photo No.	Location (CP)	Direction	Subject	Taken by	Date
IMGP0642	13	WNW		JW	19/12/14
IMGP0643	10	WNW		JW	19/12/14
IMGP0644	11	N		JW	19/12/14
IMGP0645	11 approx)	NE		JW	19/12/14
IMGP0646	30	NW	section through destruction levels	JW	19/12/14
IMGP0647	10	NW		JW	19/12/14
IMGP0648	10	NW		JW	19/12/14
IMGP0649	10	NW		JW	19/12/14
IMGP0650	10	NW		JW	19/12/14
IMGP0651	10	NW		JW	19/12/14



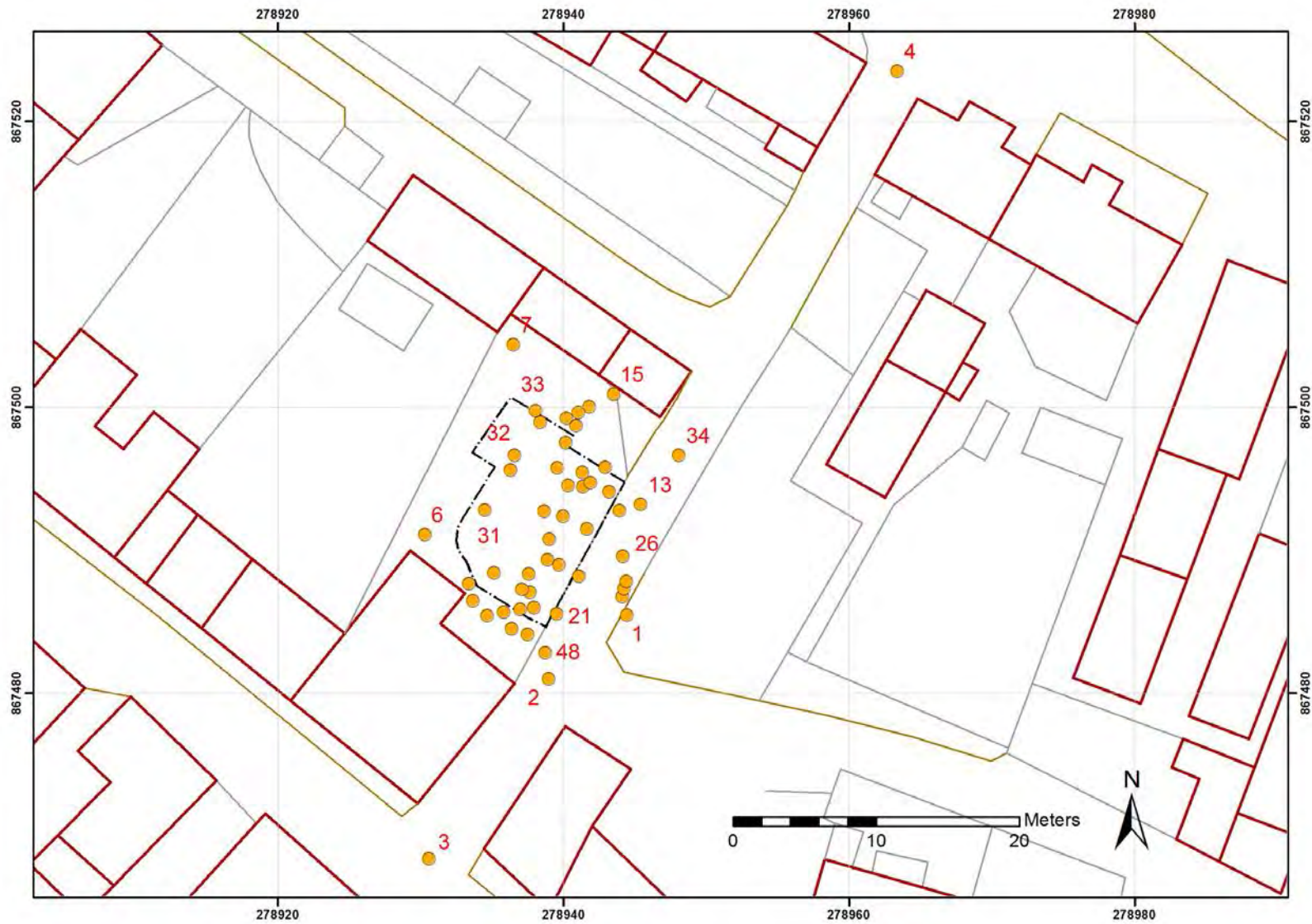


Figure 14 Photo locations (Camera Points) - overview

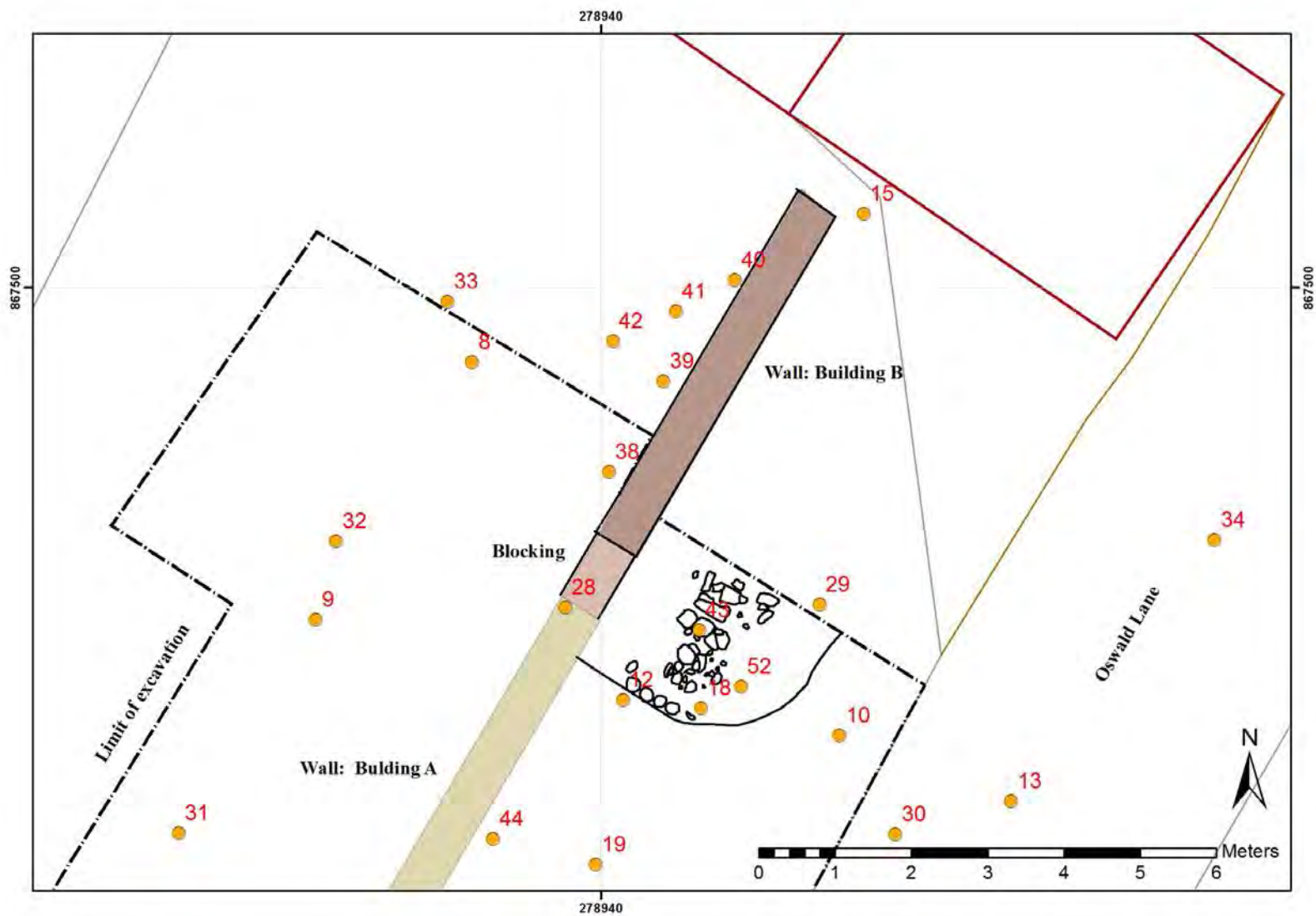


Figure 15 Photo locations (Camera Points) - North

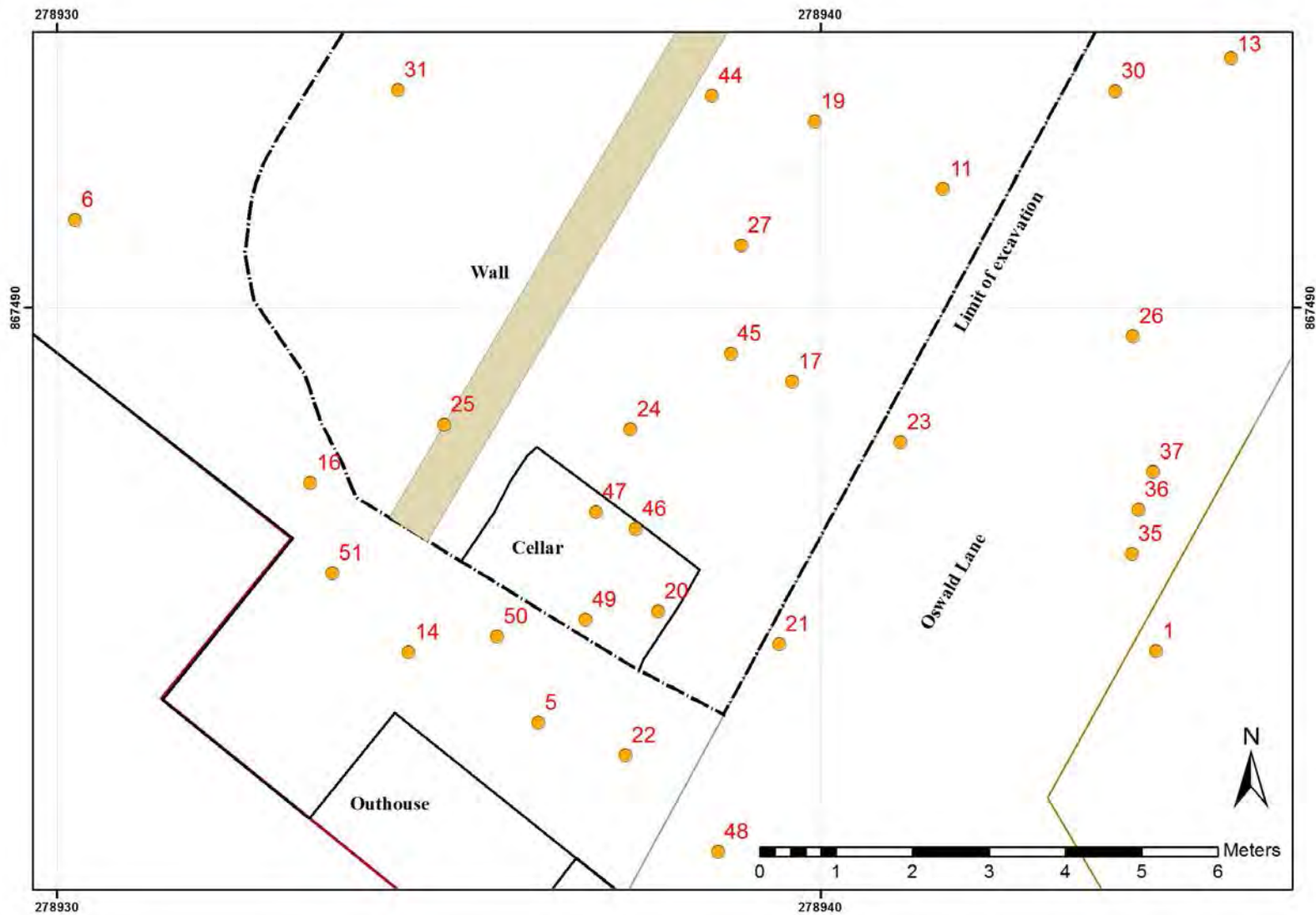


Figure 16 Photo locations (Camera Points) - South