

Mill of Lethnot, Edzell, Brechin, DD2 7UG
Report on Level 2 Standing Building Survey



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SUMMARY

A Level 2 standing building survey was carried out on 10 April 2018. Three main phases of construction were identified. In Phase 1, probably dating to the mid-late 18th century, the main mill was constructed. A small roofed building at the SE end for housing the overshot wheel does not appear on the 1st Edition OS and it may therefore have been added in the early 19th century (and survives until at least 1924 the 3rd Edition OS map). The main mill building was probably one room at that time. Evidence for the late 19th or early 20th century mill refurbishment can be seen throughout the building and the wooden floor was probably added at this time and possibly the wooden stairs. These improvements may have been due to developments in technology and included improved building standards, better kilns, advanced lifting and hoisting techniques and improved grinding stones to carry out the shelling and mealing processes in tandem.

In the early to mid-20th century the building was again altered with Room 2 being converted for housing animals.

It is recommended that no further archaeological work is required during the current planning application.

1 INTRODUCTION

- 1.1 The site (Illus 1) is located on the W of Edzell to the N of Balfield and Bridgend. It is centred on NGR NO 5399 6879, at 140-150m OD (Illus 1) and in the parish of Lethnot and Navar.
- 1.2 The work was commissioned by Peter Campbell. A planning application Angus Ref. No. 17/00510/FULL & 17/00511/LBC for the proposed Restoration & Conversion of Existing Mill Building to Ancillary Accommodation was approved on 25 Jan 2018 and there is a requirement for a Level 2 standing building survey (condition 2).
- 1.3 All the archaeological work was carried out in the context of Scottish Planning Policy (SPP) Planning Advice Note (PAN 2/2011) and Scottish Historic Environment Scotland's Policy Statement (HESPS), which state that archaeological remains should be regarded as part of the environment to be protected and managed.



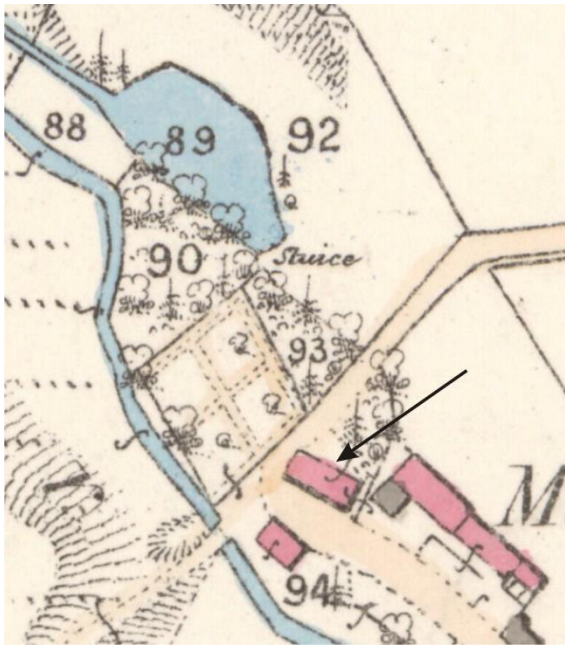
Illus 1 Location plan (Contains Ordnance Survey data © Crown copyright and database right 2018)

2 BACKGROUND

The building is a former corn mill (HER NO56NW0047; Illus 2) and it is C-listed. A mill at Lethnot is depicted on Roy's 1745-55 map (Illus 25) and by the 1st Edition OS map (Illus 3, 28) it is depicted as a rectangular corn mill, with three associated rectangular buildings and a long L-plan building. There is a garden enclosure depicted to the north, which is quartered. There is a pond and sluice further to the north, with a mill lade joining it to the river to the north-west. On the 2nd edition OS map, the southern-most associated rectangular building is depicted as L-plan, and the pond to the north is depicted as having a dam. The garden enclosure to the north is no longer depicted as being quartered. Current maps show the long L-plan building has been shortened, and only two of the associated buildings remain. The southern-most L-plan building has been extended to the south. The mill is two-storey and rubble-built, with a piended roof at the NW end. There is ashlar work at the wheel on the south-east gable, which is now removed but was approximately 3.4 metres (11ft) in diameter. The mill is initialled IY IS and dated 1772. The garden enclosure has been removed. The pond remains, but the mill lade, dam and sluice are no longer depicted. It was the property of the Earl of Dalhousie, for the grinding of oats and barley (OSNB 1857-61).



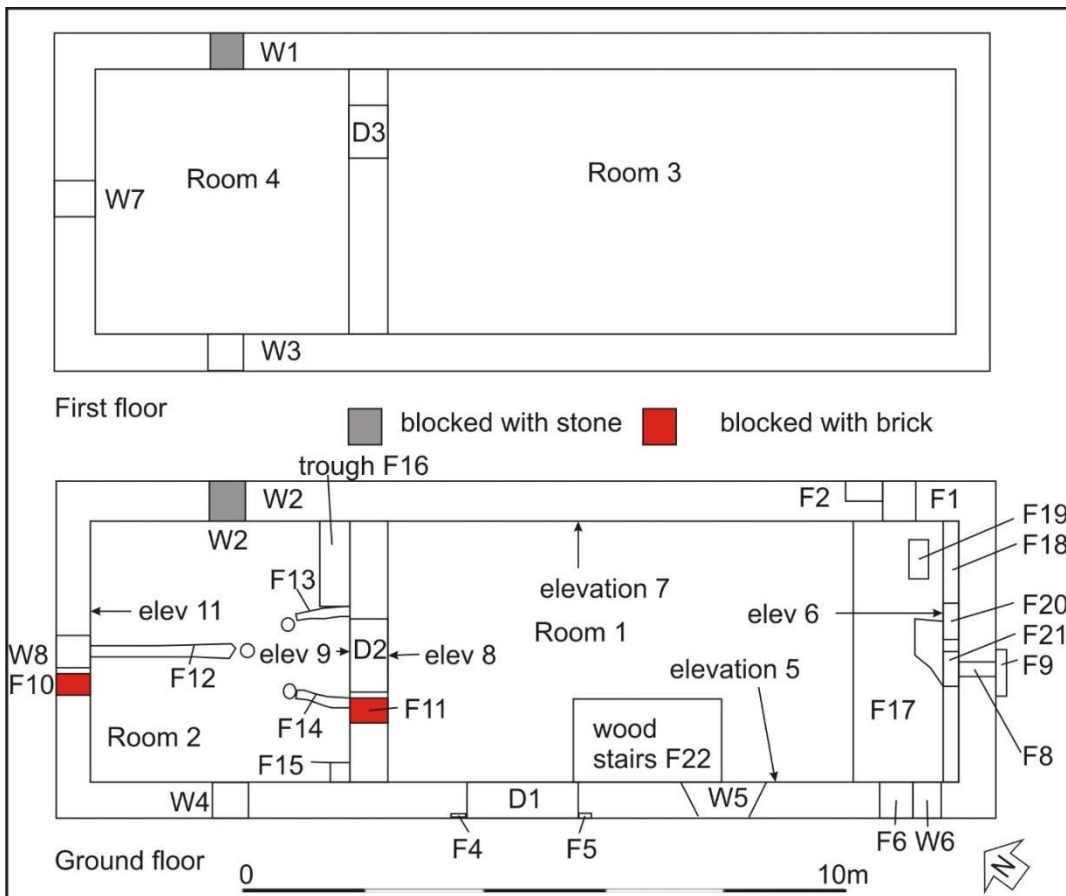
Illus 2 Photograph of mill with wheel *in situ*; copyright unknown, print belongs to a neighbour of current owner; facing N



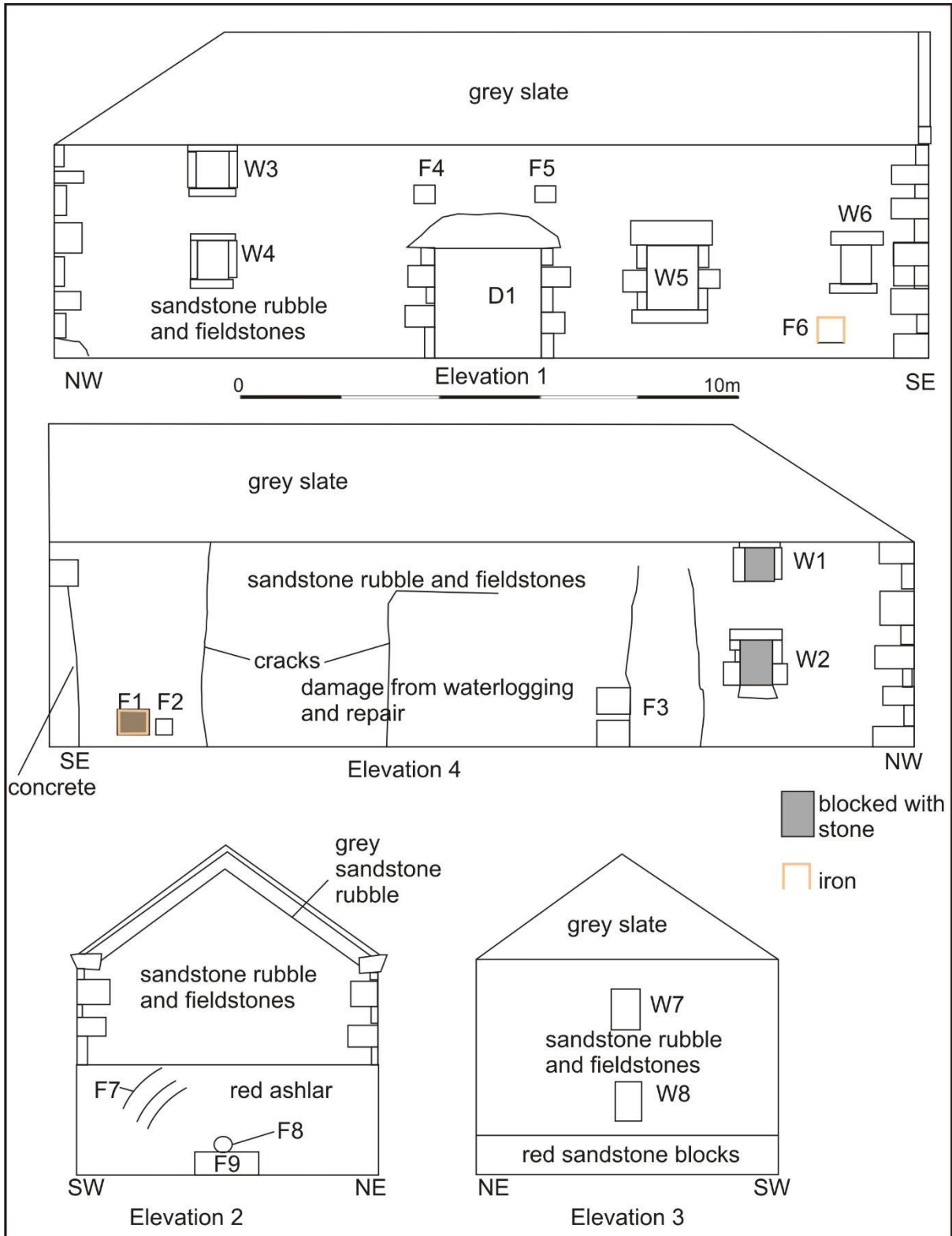
Illus 3 Detail of First Edition OS map with mill (arrowed) showing mill pond (top left) and mill lade leading to mill (copyright National Library of Scotland).

3 THE LEVEL 2 STANDING BUILDING SURVEY

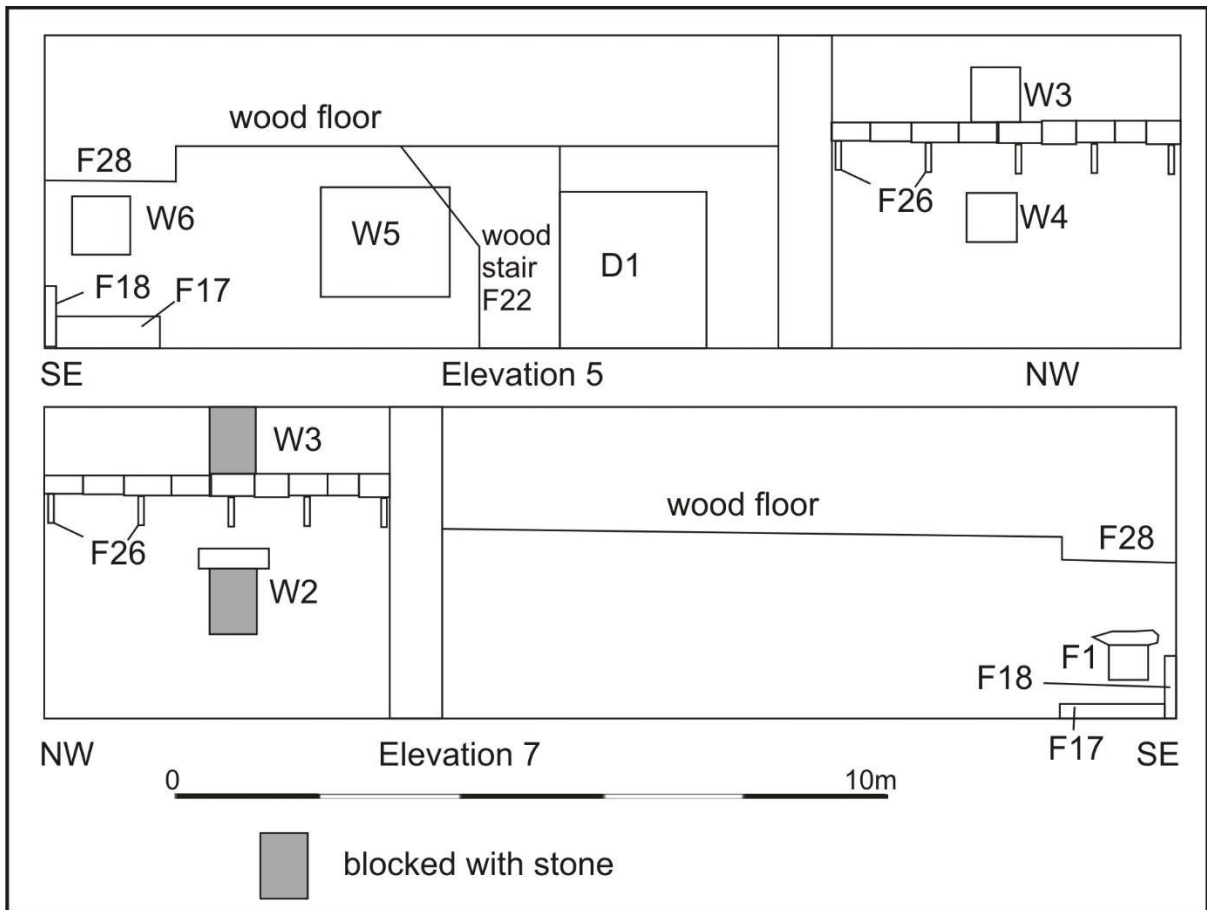
A level 2 standing building survey was carried out on 10 April 2018. The ground floor was fully accessible but the first floor wooden floor was in very poor condition and so photographs were taken from the beam at the top of the stairs only. Architects plans and elevation were accessed but new drawings were made of all aspects (Illus 4-7).



Illus 4 First floor (top) and ground floor (bottom) plans with elevation numbers used in this survey



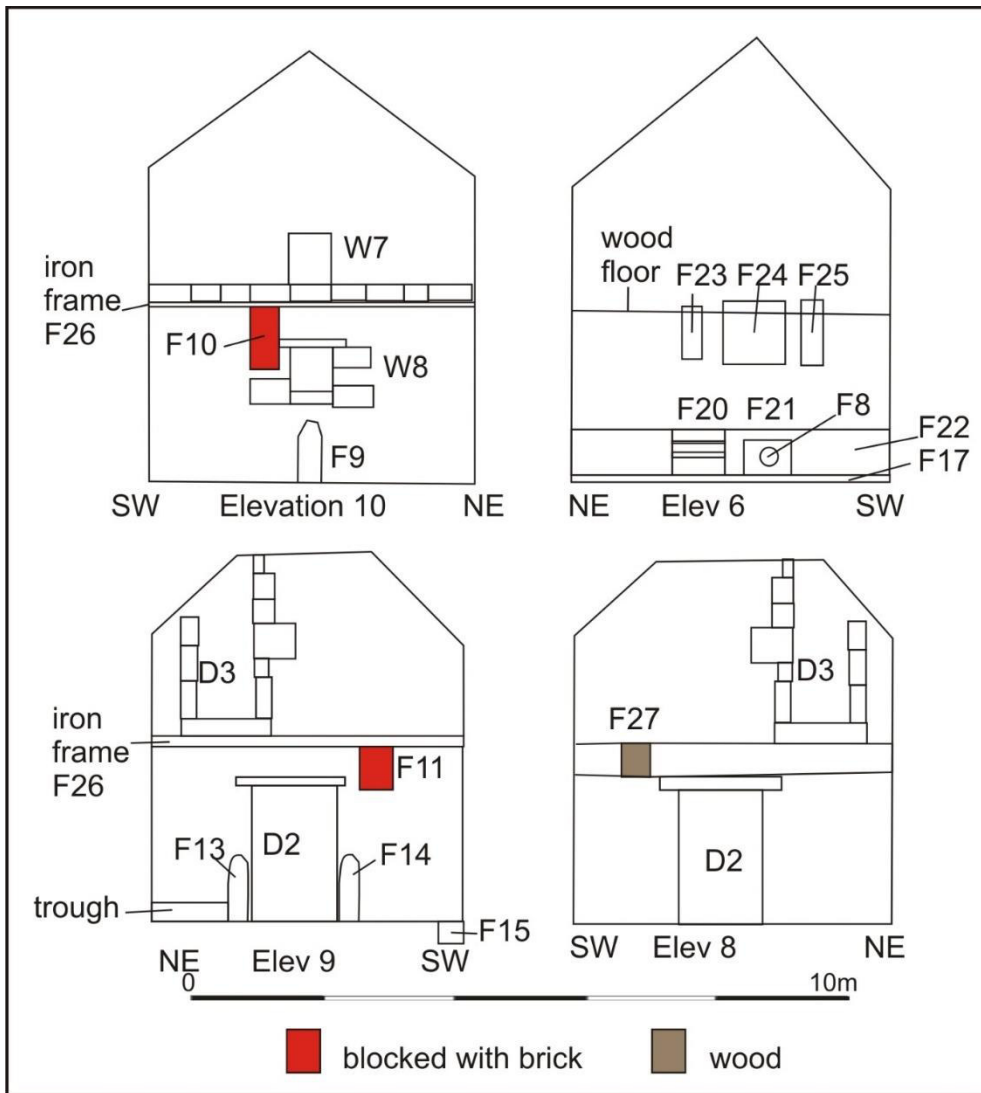
Illus 5 Elevations 1-4



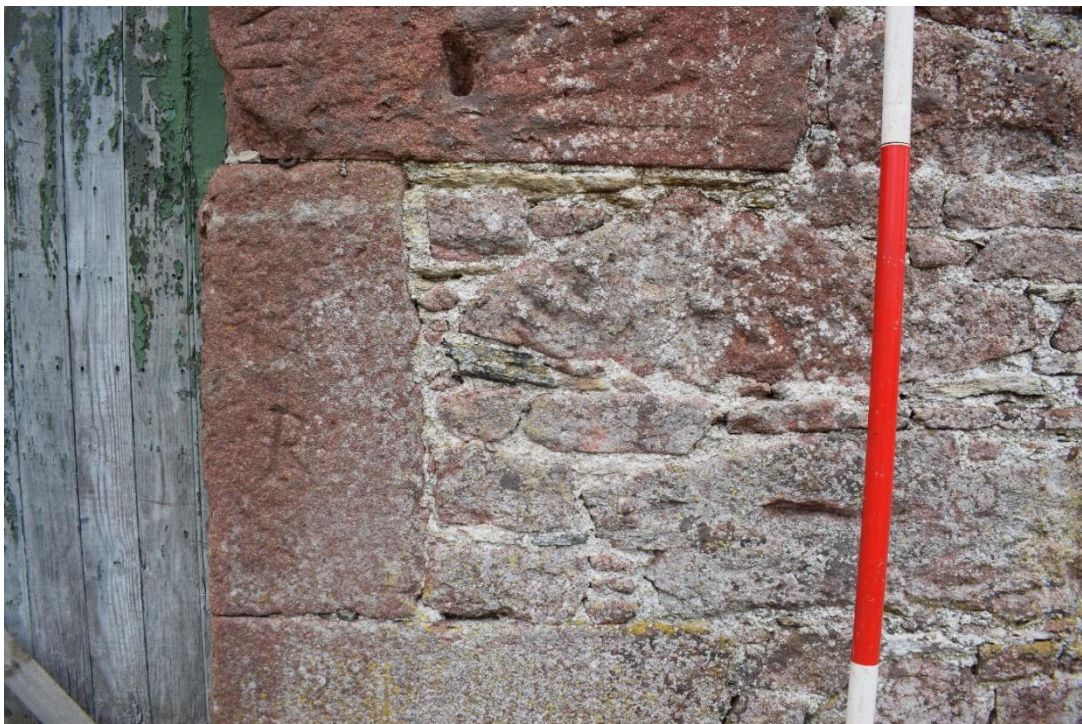
Illus 6 Elevations 5 and 7

The mill building was probably built in 1772. It is 15.2m long, 5.5m wide and 5.7m from ground to roof ridge. It is constructed of sandstone rubble and fieldstones with pink sandstone blocks for quoins and most lintels and sills. The lower courses of the NW elevation are red sandstone blocks with the rest of the wall made of rubble. Gravel is covering the base courses of other walls. The building is on a NW-SE alignment on the N side of the Burn of Drumcairn but the water for the overshot millwheel was collected by gravity in a pond to the NW of the mill (Illus 3) and fed by a lade to the mill. The pond is still extant but the remaining structures have been infilled. There is damage to the N wall of the mill probably caused by the amount of water in the vicinity to the N of, and uphill from, the property.

The mill has a main entrance (D1) on the SW wall of the property with windows and there are small windows on the NE wall of the property, now infilled. The roof is covered in grey slate but this roof is a later addition; when it was constructed it removed the upper portion of first floor door D3.



Illus 7 Elevations 6, 8-10



Illus 8 SE jamb door D1 showing tooled red sandstone blocks and inscribed 'R'; facing NE.

3.1 Room 1

Room 1 is 9 x 4m in size on the ground floor. It is likely that Rooms 1 and 2 were originally one room as the internal dividing wall is not tied in to the main walls (Illus 9). The NE wall of this room is slightly bowed as it has had historical water damage and has been repaired several times (Illus 5).

The aperture F8 for the waterwheel drive shaft is probably part of the original construction of this building as is door D1 and windows W1-W4 and W5-W8 as they all have red sandstone lintels, jambs and sills. D1 is of tooled red sandstone and one of the jamb stones is incised with an 'R' (Illus 8). There are red sandstone blocks incised with 'IY/17' (F4) and 'IS/72' (F5) (see cover illustrations); these appear integral to the constructions of the building, do not appear to have been inserted later and therefore give an indication to the date of the original construction of the building around 1772.

W5 was probably added in Phase 2 as it has grey sandstone pecked mouldings. Apertures F1 and F6 were probably added in Phase 2 and are associated with the later use of the mill. Wooden chute F11 (Illus 16) allowed the dried grain to be transferred from the kiln (see Room 2 below) to the hopper and into the grinding mechanism.

During refurbishment of the mill, probably in the late 19th or early 20th centuries, concrete plinths F17 and F18 were added at the SE end of the room as was hearth or boiler F20 and concrete block F19 which had 2 iron bolts in the upper surface for attaching part of the waterwheel inner mechanism (Illus 10; 11). At this time apertures F1 (Illus 13-14) and F6 were added; they are rectangular apertures lined with iron plate 2cm thick and with an iron bar and bolts, possibly for attaching a support for the internal mechanisms of the milling mechanism. The wooden floor above Room 1 has an extra platform at the SE end (F28; Illus 12) for supporting the upper mechanisms of the mill wheel mechanisms including the hoppers and the mill wheels. A wooden stair (F22, Illus 15) now leads to the first floor. Shallow recesses F23, 24 and 25 (Illus 7) are behind the wooden framing for the floor above and may be associated with the first phase of the millwheel mechanism.



Illus 9 Room 1 NW wall, probably a Phase 2 division with D2 (centre); facing NW



Illus 10 Room 1 SE wall F1 (left), concrete block F19, hearth F20, F21, W6 (right); facing SE



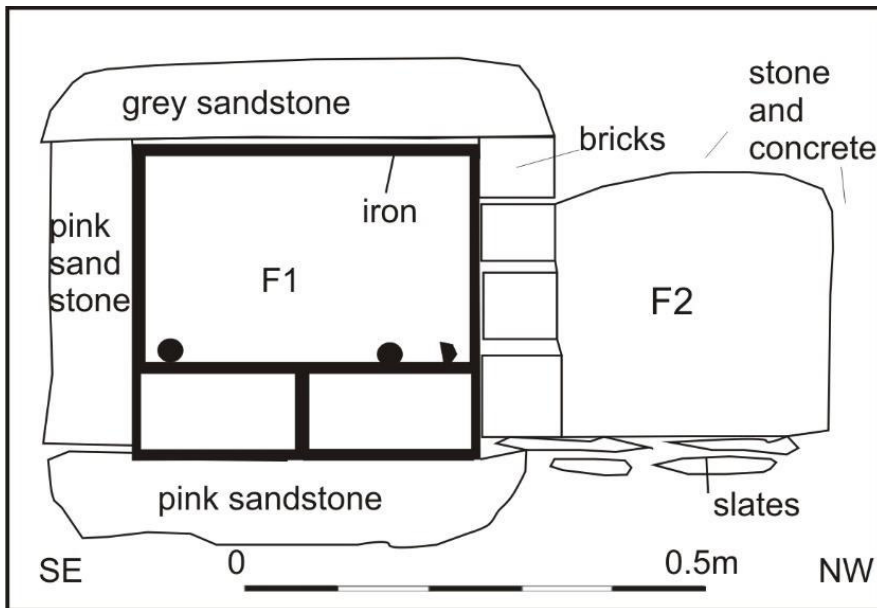
Illus 11 Detail of hearth F20 (left) and F21 (right) set in concrete plinths (F18; centre) and F17 (bottom); facing SE



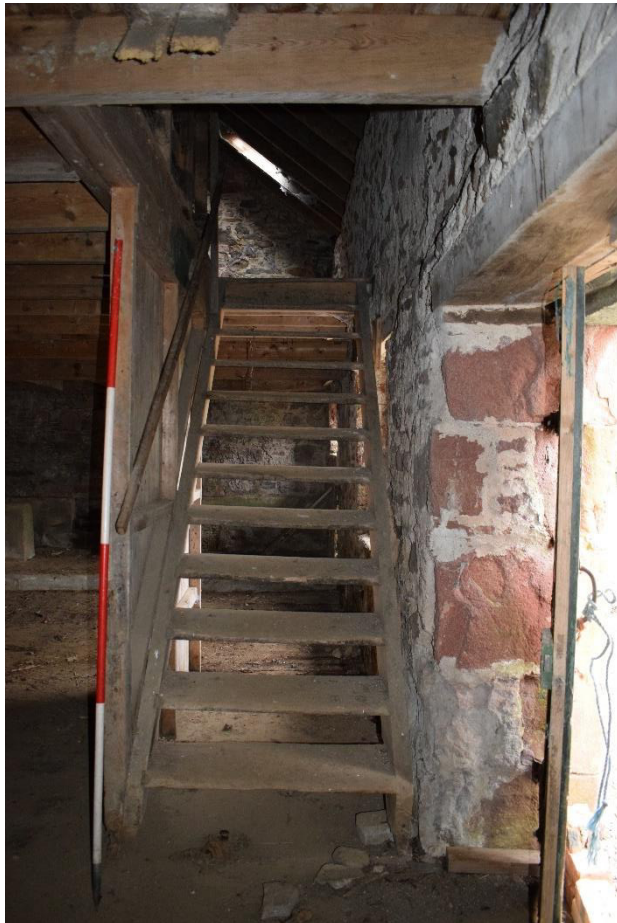
Illus 12 SW wall SE end W6 (left) F6 (behind metal sheet), concrete plinth F17 (bottom) and W5 (right) with wooden platform F28 (above); facing SW



Illus 13 F1 (left) F2 (right); facing SW



Illus 14 SE-NW exterior elevation F1 and F2



Illus 15 Wooden stairs F22 with D1 (right); facing SE



Illus 16 Wooden chute F27 NW wall Room 1 above D2.

3.2 Room 2

Room 2 is 4 x 4m in size on the ground floor. It is at the NW end of the property and has a window W8 on the NW wall, window W2 on the NE wall. It is the remains of the kiln room. The basic processes of the corn mill would have involved bringing harvested cereals into the mill at first floor level, probably via aperture F10 and poured onto the drying floor of the kiln (F26; Illus 17, 18)). Once dried, the grain must have been conveyed to the mill stones (Room 1) through wooden chute F11 (Illus 16) and the chaff to a chaff /husk store, possibly Room 2. Charring can be seen on the walls of Room 4 and the iron frame and mesh above Room 2 (F26, Illus 17) and walls of mills of this type often had to be repaired and replaced due to the intense heat. Aperture F10 was infilled with brick after use as a kiln and prior to conversion.

The room has a concrete floor and was converted for animal use in Phase 3, the late 19th to early 20th century, with the construction of partition walls (F12, 13, 14) creating stalls, with concrete trough (F16) in the E corner.



Illus 17 Room 2 NW wall showing burnt stonework and iron frame and mesh with W8 (centre) and brick-blocked aperture F10 (left) probably grain chute and Phase 3 wall F12 (bottom); facing NW.



Illus 18 Room 2 iron frame and mesh F26 for drying grain with D3 (left) and blocked aperture F11 (right) grain chute leading to wooden chute in Room 1; facing SE

3.3 Room 3

Room 3 is 9 x 4m in size on the first floor. It was not fully accessible because of the poor condition of the floor but had a door D3 to Room 4 in the NW wall. This room would have housed the hoppers, millwheels and associated mechanisms.



Illus 19 Room 3 NW wall with D

3.4 Room 4

Room 4 is 4 x 4m in size on the first floor and is presumably the kiln area of the original mill. There is no access to this room but it has a metal frame F26 (Illus 17, 18) with iron mesh on top, for grain drying. It has a door D3 on the SE wall, W1 on the NE wall and window W7 in the NW wall. There is blackening on the interior of the NW wall of the building and the iron frame and mesh are heat-blackened.

3.5 Mill wheel

A small roofed building had been attached to the SE end of the building (see 2nd and 3rd edition OS maps; Illus 29-30) and there is a scar under the roofline, probably where this building had been sited (Illus 20).

The wheel pit and lade have been infilled but there is a concrete block (F9) 1m long and 0.42m high and 0.3m deep with iron fittings on the upper surface. This may be the outer headstock (Illus 21-23), usually located on the exterior of the millwheel. There are scars on the ashlar lower section of the SE gable (F7; see cover illustration) where the millwheel created grooves in the stone suggesting a diameter of about 2.5m for the millwheel.



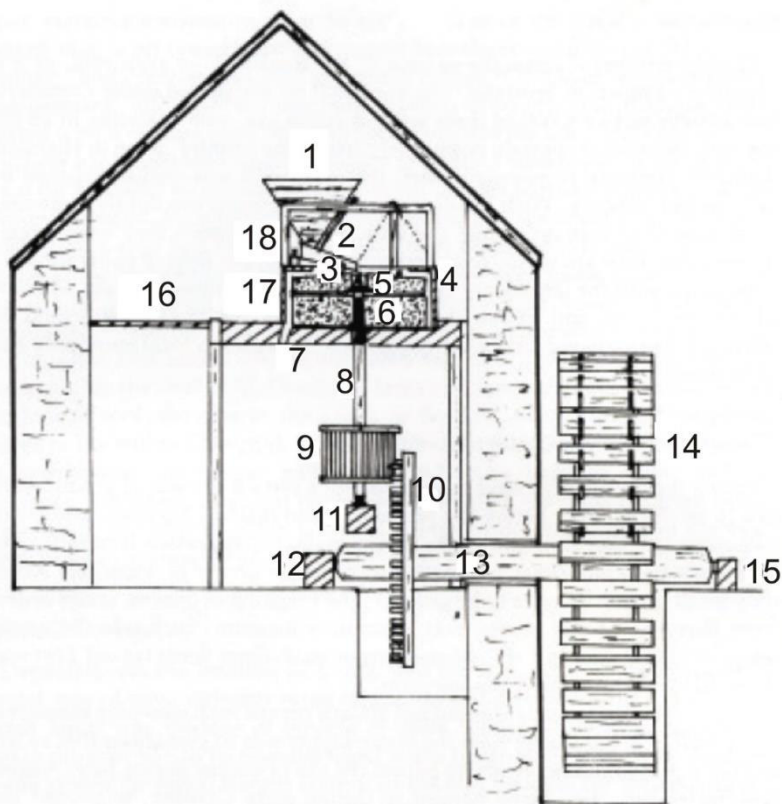
Illus 20 SE gable upper section showing grey sandstone scar under roofline where structure was attached for mill wheel; facing NW



Illus 21 SE gable lower section showing concrete outer headstock (F9) and circular axletree aperture (F8; centre) and three incised circular scars (F7; left) on red sandstone ashlar where mill wheel has scored the ashlar; facing NW



Illus 22 Concrete block possibly the outer headstock (F9) and circular axletree aperture (F8; above).



Illus 23 Illustration of how Mill of Lethnot might have operated (after Shaw 1984).

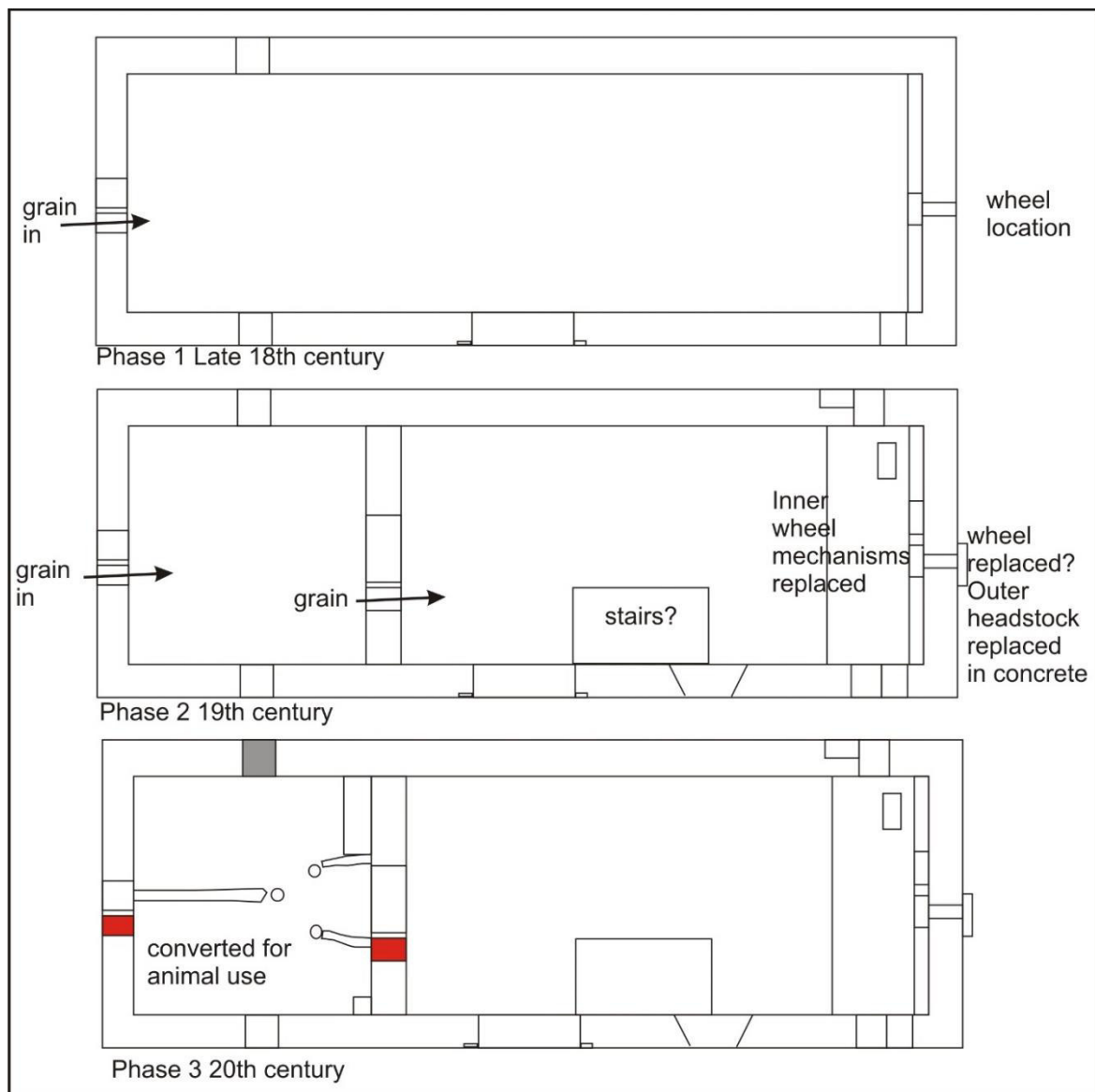
Key: 1: Hopper, 2: shoe, 3: clapper, 4: rind, 5: upper stone, 6: nether stone, 7: mill eye, 8: spindle, 9: trindle, 10: inner wheel, 11: bridge tree, 12: inner headstock, 13: axletree, 14: outer wheel, 15: outer headstock, 16: mill stool, 17: hoops, 18: crub.

4 CONCLUSIONS AND RECOMMENDATIONS

A Level 2 standing building survey was carried out on 10 April 2018. Three main phases of construction were identified (Illus 21). In Phase 1, probably dating to the mid-late 18th century, the main mill was constructed. A small roofed building at the SE end for housing the overshot wheel does not appear on the 1st Edition OS and it may therefore have been added in the early 19th century (and survives until at least 1924 the 3rd Edition OS map). The main mill building was probably one room at that time. Evidence for the late 19th or early 20th century mill refurbishment can be seen throughout the building and the wooden floor was probably added at this time and possibly the wooden stairs. These improvements may have been due to developments in technology and included improved building standards, better kilns, advanced lifting and hoisting techniques and improved grinding stones to carry out the shelling and mealing processes in tandem (Shaw 1984).

In the early to mid-20th century the building was again converted with Room 2 being converted for housing animals.

It is recommended that no further archaeological work is required during the current planning application.



Illus 24 Phase plan

5 REFERENCES

Shaw, J (1984) *Water Power in Scotland 1550-1870*. Edinburgh: John Donald.

6 ACKNOWLEDGEMENTS

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APPENDIX 1 FEATURES RECORDED IN THIS SURVEY

Feature no	Description	Size
D1	SW façade grey lintel, red sandstone jambs	1.75 w, 1.9m h
D2	Between Rooms 1 and 2 ground floor	2m h, 1.1m w
D3	Between Rooms 3 and 4 first floor, pink sandstone jambs, cut through by later roof, lintel removed.	C 2.2m h, 0.7m wide
W1	First floor NE wall	0.5m w, 0.6m h
W2	Ground floor NE wall	0.5m w, 0.6m h
W3	SW elevation NW end first floor	0.49m w, 0.63m h
W4	SW elevation NW end ground floor	0.49m w, 0.63m h
W5	SW elevation SE end	0.92m w, 1.08m h ext.
W6	Ground floor SW elevation SE end	0.47m w, 0.62m h
W7	Ground floor NW elevation	0.5m w, 0.65m h
W8	First floor NW elevation	0.5m w, 0.66m h
F1	Iron-lined vent through NE wall SE end	0.4m w, 0.37 h, iron 0.092m thick
F2	Hole next to F1	0.26m h 0.28m w
F3	NE wall central areas repairs and cracks caused by water damage	
F4	Block of pink sandstone inscribed I Y/1 7	0.3m w, 0.23m h
F5	Block of pink sandstone inscribed I S/172	0.3m w, 0.23m h
F6	Iron-lined vent through SW wall SE end	0.4m w, 0.37 h, iron 0.092m thick

F7	3 parallel incised scars SE gable where mill wheel was sites	1cm wide, 0.02cm deep
F8	Hole through SE gable for mill wheel drive shaft, axeltree	0.17m h, 0.22m w
F9	Concrete block under F8, possibly outer headstock	1m long, 0.3m deep, 0.42m high
F10	Aperture NW gable at first floor level blocked with brick; probably for wooden grain chute	0.43m w
F11	Aperture partition wall between Rooms 1 and 2 and first floor level blocked with brick; probably for wooden grain chute	0.43m w
F12	Room 2 Phase 2 stone and concrete wall	0.25m wide, 0.85m high
F13	Room 2 Phase 2 stone and concrete wall	0.25m wide, 0.85m high
F14	Room 2 Phase 2 stone and concrete wall	0.25m wide, 0.85m high
F15	Hole in SW corner Room 2 – drain in concrete floor?	
F16	Trough E corner Room 2	1.5m l, 0.8m w
F17	SE end Room 1 interior concrete plinth	1.5m wide, 0.19m high
F18	SE end Room 1 interior concrete plinth along base of wall	0.6m high, 0.11m wide
F19	SE end Room 1 interior concrete block with 2 iron bolts in top; fitting for interior mechanism of wheel; appears to be an inner headstock?	
F20	SE end Room 1 interior hearth in F18.	0.55m w, 0.42m h
F21	SE end Room 1 interior aperture in F18 with mill wheel driveshaft aperture F8 in centre; associated with wheel mechanism. Blocked with brick.	0.54m w, 0.48m h
F22	Wood stairs Room 1	
F23	Aperture interior SE gable first floor level – covered by later wooden floor	0.12m w, 0.54m h, 0.01m deep
F24	Aperture interior SE gable first floor level – covered by later wooden floor	0.72m w, 0.54m h, 0.01m deep
F25	Aperture interior SE gable first floor level – covered by later wooden floor	0.18m w, 0.54m h, 0.01m deep
F26	Iron frame on floor Room 4 iron plates with rods and mesh attached to upper surface	Iron plate 0.14m wide, 0.02m thick, 4m long (length of room)
F27	Wooden chute between first floor Room 4 and Room 1 at first floor height	C0.6m w, 0.5m h
F28	Wooden platform at SE end Room 1 for housing mill wheels and associated mechanism	1.7m wide

APPENDIX 2 MAPS



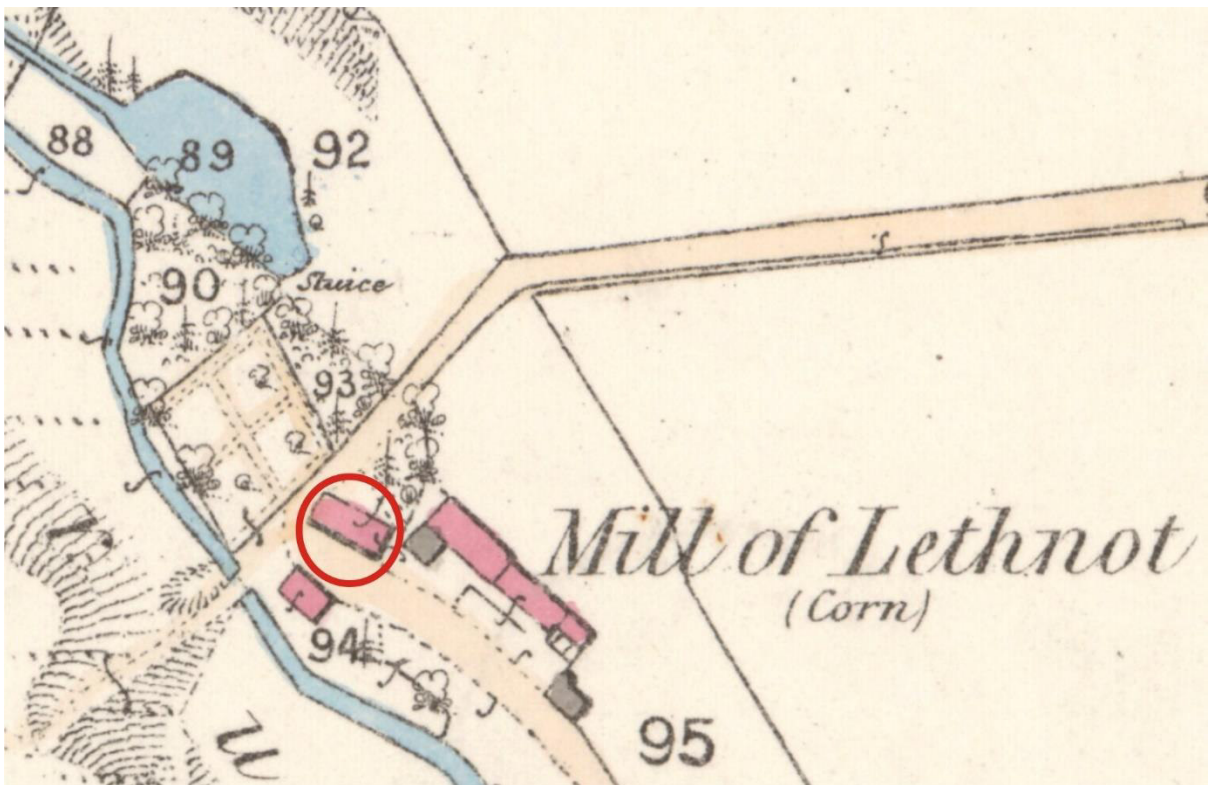
Illus 25 Roy map of 1745-55 showing 'Mill of Laithnott' circled in red (copyright National Library of Scotland)



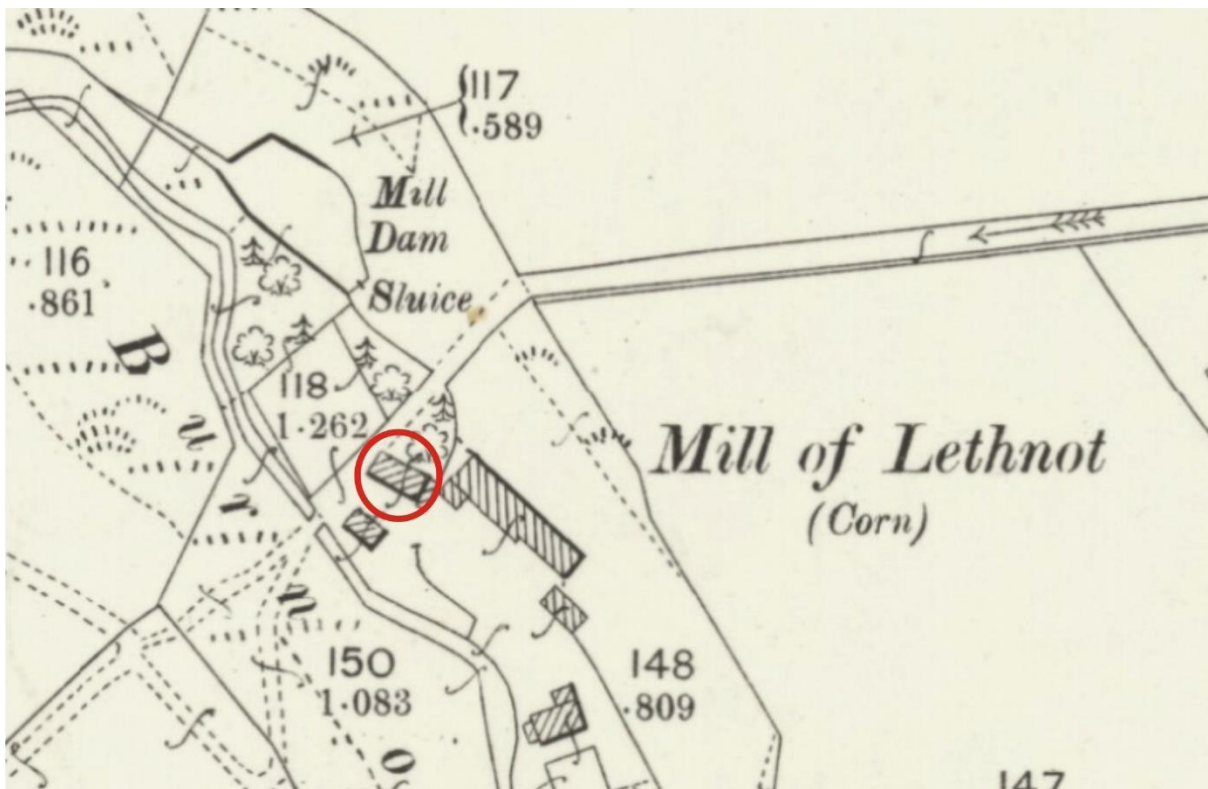
Illus 26 Thomson map of 1825 showing Lethnot Kirk and Manse (but no mill) (copyright National Library of Scotland)



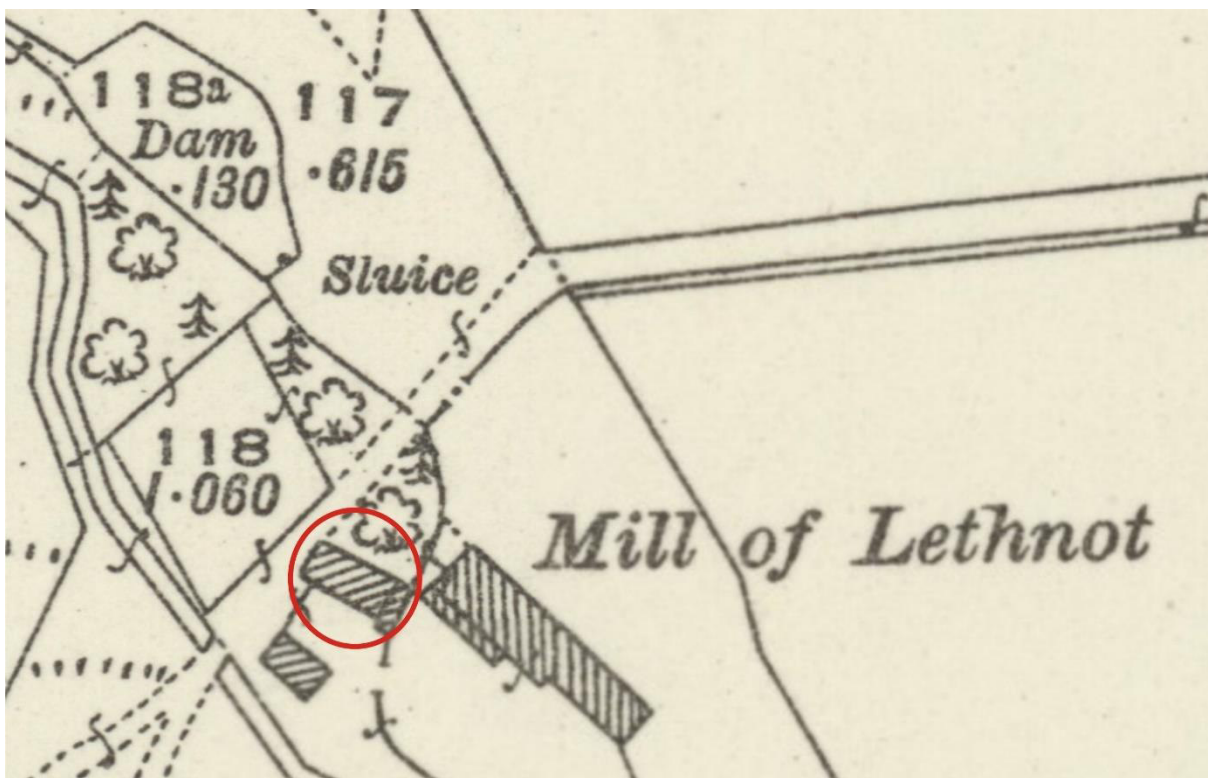
Illus 27 Ainslie map of 1794 showing Lethnot Kirk and Manse (but no mill) (copyright National Library of Scotland)



Illus 28 First Edition Ordnance Survey map (copyright National Library of Scotland) Forfarshire XIX.7 (Lethnot & Navar) Survey date: 1862 Publication date: 1866

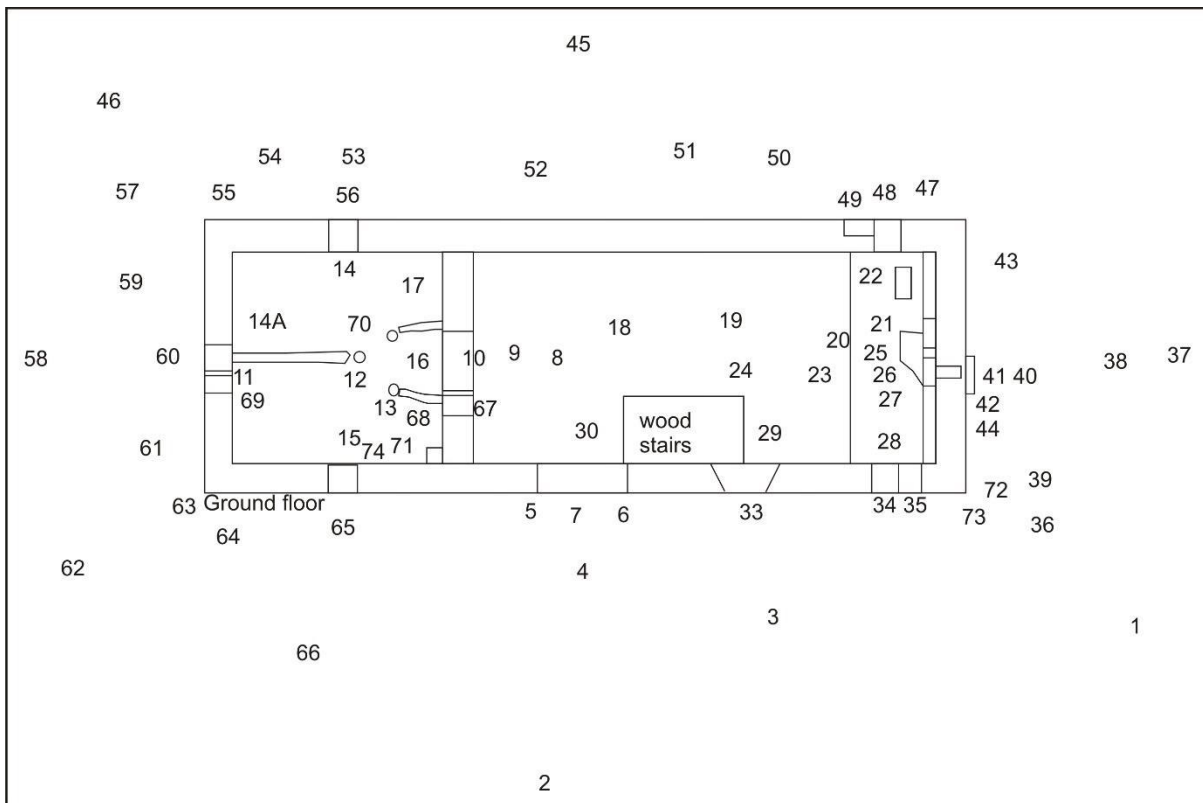


Illus 29 Second Edition Ordnance Survey map (copyright National Library of Scotland) Forfarshire XIX.7 (Lethnot and Navar) Publication date: 1902 Revised: 1901

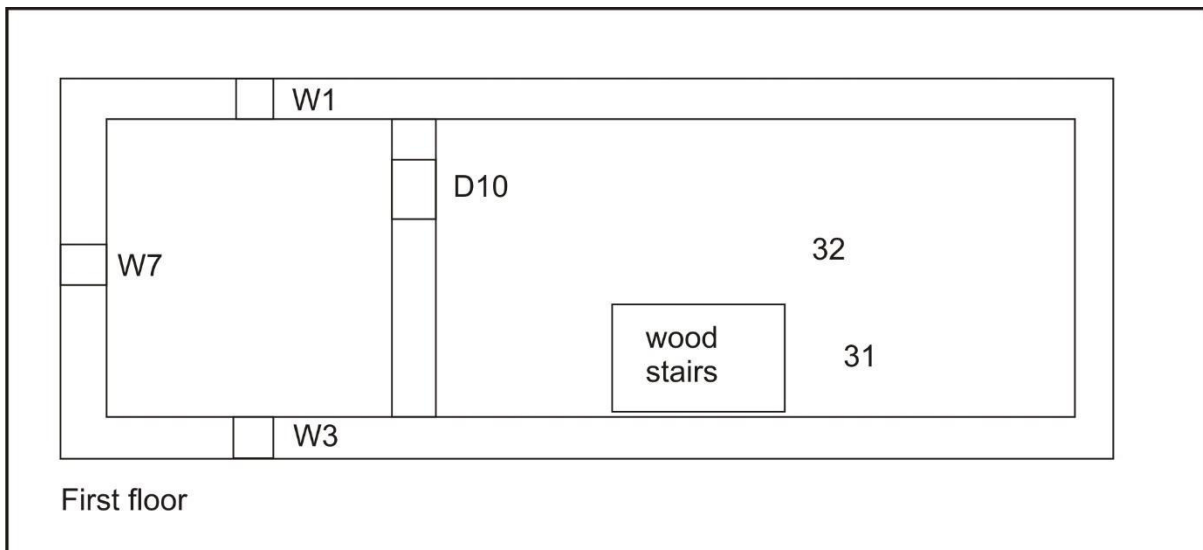


Illus 30 Third Edition Ordnance Survey map (copyright National Library of Scotland) Forfarshire XIX.7 (Lethnot and Navar) Publication date: 1924 Revised: 1922 Levelled: 1901

APPENDIX 2 PHOTOGRAPHS



Illus 31 Ground floor camera points used in this survey



Illus 32 First floor camera points used in this survey

Photo no	Description	Camera point	Facing
7432-33	Mill from S	1	N
7434-5	Mill from SW	2	NE
7436	SW façade D1 (left) W5, F6, W6	3	NE
7437	D1	4	NE
7438	F5	6	NE
7439	F4	5	NE
7440-44	D1 lintel and jamb details	7	NE

7445-49	D1 SE jamb with tool marks on red sandstone blocked and incised R	6	NE
7450-54	D1 SE jamb	7	E
7455	D1	8	SW
7456	Room 1 NW wall D2	9	NW
7457	D2	10	NW
7458	D2 threshold and step	10	NW
7459-60	D2 NE jamb	10	N
7461	D2 wood lintel	10	NW
7462-3	D2 SW jamb	10	W
7464	Room 2 SE wall D2 with F11 (top right), wall F9 (centre)	11	SE
7465	Room 2 iron frame and mesh F26 with D3 above	11	SE
7466	D2	12	SE
7467	F11	13	SE
7468	Room 2 iron frame and mesh F26	13	SE
7469	Room 2 iron frame and mesh F26	13	E
7470	Room 2 SW wall W4	14	SW
7471	Room 2 SW wall W4 (bottom) with WW3 above and iron frame F26 in between	14	SW
7472	F15	13	S
7473	W4	15	SW
7474-5	W3 with F26	15	SW
7476	Room 2 NW wall with F9 (bottom) W8 (centre) W7 (top)	16	NW
7477	Room 2 NW wall with F9 (bottom) W8 (centre) W7 (top)	16	NW
7478-81	W8	11	NW
7482	W8 NE jamb	11	NNE
7483	W8 SW jamb	11	W
7484-5	Room 2 NE wall blocked W4 (bottom) W3 (top) with iron frame F26 in between	15	NE
7486	W3 with iron frame F26	14	NE
7487-8	W4	14	NE
7487-91	Room 2 SE wall D2 with F11 (top right), wall F9 (centre)	14A	SE
7492	D3	17	SE
7493	Trough between D2 and NE wall	17	SE
7494-5	D2	16	SE
7496	Room 1 NE wall showing water damage and repointing	9	NE
7497	Room 1	9	SE
7498	Room 1 wooden beams	9	SE
7499	Room 1 NE wall showing water damage and repointing	18	NE
7500	Room 1 NE wall	19	NE
7501	Room 1 wood stairs	29	NW
7502	Room 1 NE wall F1 (centre) with concrete block F19	20	NE
7503	F1 (left) F19 (right)	21	NE
7504-6	F1	22	NE
7507-8	Wood floor	21	NE
7509	Room 1	8	SE
7510	Room 1 roof timbers above	8	SE
7511	Room 1 SE wall F1 (left) F19, F20, F21 and w6 (right)	24	SE

7512	F1 (left) F19 (right)	20	E
7513	F1 (left) F19 (centre) F20, F21 with F23-25 above	20	SE
7514	F23, F24	25	SE
7515	F24 F25	26	SE
7516	F20 F21	25	SE
7517-21	F23	21	SE
7522	F21 (bottom left) F24 F25 above	27	SE
7523-24	W6 (left) W5 (right)	27	SW
7525-26	W6	28	SW
7527	W5	29	SW
7528	wood stairs to first floor	29	NW
7529	wood stairs to first floor	30	SE
7530	First floor Room 3 SE gable	31	SE
7531	First floor Room 3 rotten floorboards	31	SE
7532	Room 3 NE wall	31	NE
7534	Room 3 NE wall	31	N
7535	Room 3 NW wall D3	32	NW
7536	Room 3 NW end rotten floorboards	32	NW
7537-39	Room 3 SW wall and rotten floorboards	32	W
7540	Room 3 NE wall	32	N
7542-3	W5	33	NE
7544	F6	34	NE
7545	W6	35	NE
7546	Mill from S	36	N
7547	Mill SE gable	37	NW
7548	Mill SE gable red ashlar blocks with F8 (centre) F9 (below) and F7 (left)	38	NW
7549	Mill SE gable upper section with grey sandstone rubble section under wall head	38	NW
7550	Mill SE gable red ashlar blocks with F8 (centre) F9 (below) and F7 (left)	38	NW
7551	Mill SE gable red ashlar blocks with F8 (centre) F9 (below) and F7 (left)	39	N
7552	Mill SE gable upper section with grey sandstone rubble section under wall head	39	N
7553-55	F8 and F9 below	40	NW
7556-7	F8	41	NW
7558-9	F9	42	NE
7560	F9	41	NW
7561-3	SE gable NE end with concrete repair at corner and red sandstone quoins above	43	NW
7564-7	Mill SE gable red ashlar blocks with F8 (centre) F9 (below) and F7 (left)	43	WSW
7568-9	F7	44	WSW
7570	Mill from NE	45	SW
7571-2	Mill from N	46	S
7573-7	NE wall SE end with concrete repair at corner and red sandstone quoins above	47	SW
7578-9	F1 (left) F2 (right)	49	SW
7580-2	wall above F1 and F2	48	SW

7583-4	Wall next to F2 showing cracks and repairs	48	WSW
7585-6	NE wall SE end	50	SSW
7587-8	Wall next to F2 showing cracks and repairs	50	SW
7589	NE wall central section showing cracks and repairs	51	S
7590	NE wall central section showing cracks and repairs	51	SSW
7591	NE wall central section showing cracks and repairs	52	SW
7592	NE wall NW end W1 and W2 blocked with stone	52	W
7593	NE wall	52	SSE
7594-6	W1 above W2 below	53	SW
7597	W2	56	SW
7598	W1	56	SW
7599-7602	NE wall NW end red sandstone quoins	55	SW
7603-4	Mill from N	57	S
7605-6	Mill NW gable	58	SE
7607-8	Mill NW gable NE end W7 and W8 (right)	59	SE
7609	W8	60	SE
7610	W7	60	SE
7611-12	Mill NW gable SW end W7 and W8 (left)	61	SE
7613-14	Mill from W	62	E
7615-18	W corner red sandstone quoins	63	E
7619-20	W corner red sandstone quoins	64	NE
7621	SW wall NW end W3 above W4	66	NE
7622	W4	65	NE
7623	W3	65	NE
7624	SW wall	66	ENE
7625-6	SW wall NW end W3 above W4 and D1 (right)	66	NE
7627-8	SW wall	2	NE
7629-30	SW wall	2	ENE
7631-33	D1 lintel and F4 (left) F5 (right)	7	NE
7634-5	S corbel	72	N
7636-8	S corbel	73	NE
7639-40	F27	67	NW
7641-2	F11	68	SE
7643-5	W4 sandstone NW jamb	74	W
7646-8	F10	69	NW
7648-50	F10 (left) W7 (top) W8 (below)	11	NW
7651-2	W8 NE sandstone block jamb	69	N
7653	wall F9 (left) F13 and F14 (right)	12	E
7654	wall F9 (right) F13 and F14 (left)	70	S
7655	wall F9 (left) F13 and F14 (right)	12	E
7656	wall F9 (right) F13 and F14 (left)	17	SSE
7657-8	Trough between D2 and NE wall	17	SE
7659	D3	17	SE
7660-62	Room 2 E corner	17	E
7663	F15	71	S
7664-5	F15	74	SE



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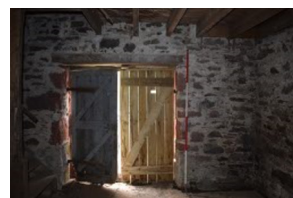
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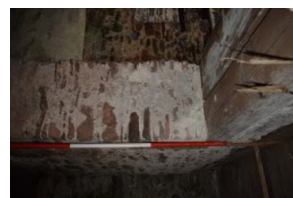
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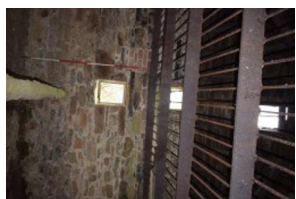
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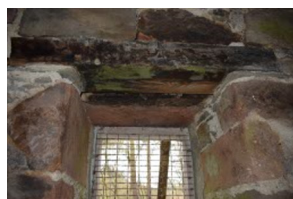
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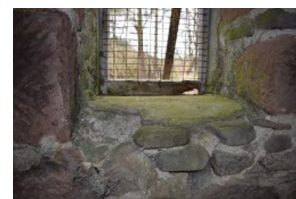
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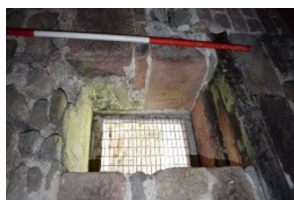
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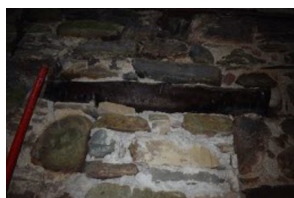
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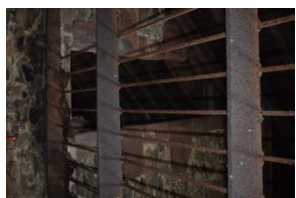
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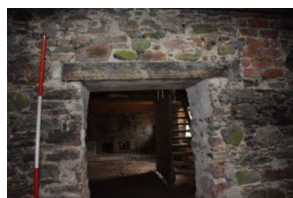
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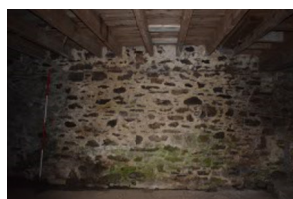
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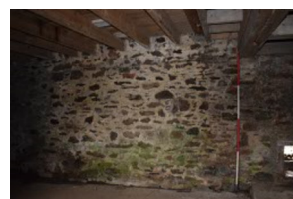
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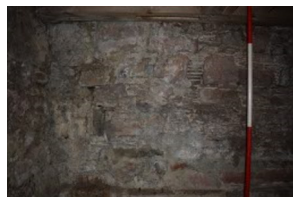
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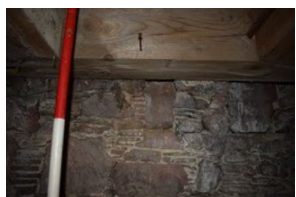
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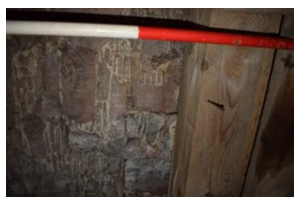
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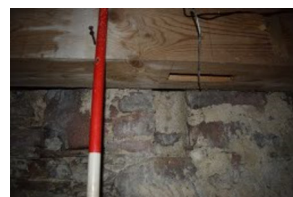
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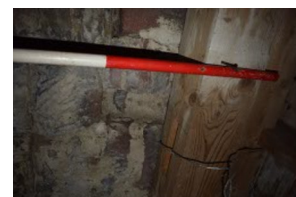
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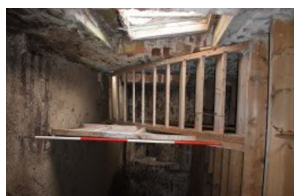
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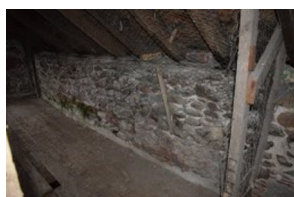
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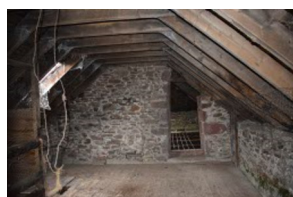
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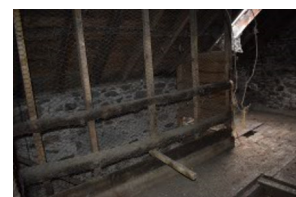
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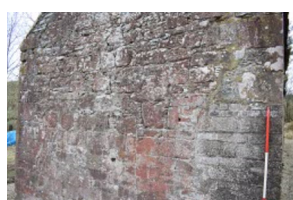
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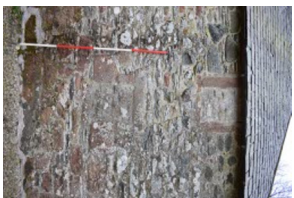
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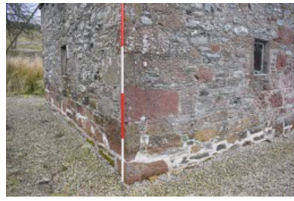
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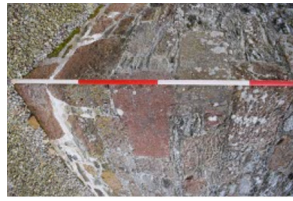
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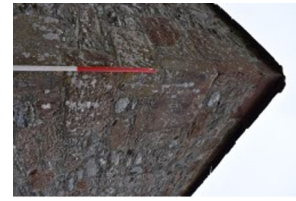
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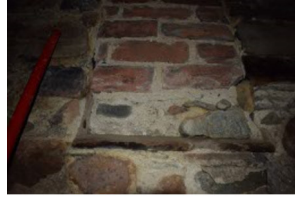
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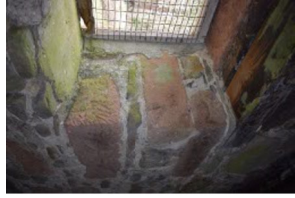
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