SACREWELL MILL, SACREWELL FARM, GREAT NORTH ROAD, THORNHAUGH, PETERBOROUGH, PE8 6HJ

ARCHAEOLOGICAL MONITORING

PCA

FEBRUARY 2013

PRE-CONSTRUCT ARCHAEOLOGY

R11384

ARCHAEOLOGICAL MONITORING AT SACREWELL MILL, SACREWELL FARM, GREAT NORTH ROAD, THORNHAUGH, PETERBOROUGH, PE8 6HJ

Site Code: N/A

Report No: R11384

Central National Grid Reference: NGR TF 07905 00057

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February 2013

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ABSTRACT

Pre-Construct Archaeology was commissioned by Purcell UK Limited on behalf of the William Scott Abbott Trust to carry out archaeological monitoring of a hand-dug test pit adjacent to the south-eastern gable wall of the mid-18th-century Grade II Listed watermill at Sacrewell Farm, Thornhaugh, Peterborough. Heritage Lottery Funding has been granted to restore and conserve the mill and to improve visitor access. The test pit was dug in order to investigate the foundations of the mill and to gauge the suitability of the ground for construction of an external staircase. The monitoring was undertaken on 19th February 2013. The Barnack limestone foundations of the mill were revealed, in addition to the brick foundation of a small later (c. 19th-century) outbuilding or wall, and an earlier undated metalled track underlying the existing farm track to the east of the mill building.*

1 INTRODUCTION

1.1 This report details the methodology and results of archaeological monitoring carried out by Pre-Construct Archaeology (PCA) at Sacrewell Mill, Sacrewell Farm and Country Centre, Great North Road, Thornhaugh, Peterborough (Figure 1; Plate 1). The project was commissioned by Purcell UK Limited on behalf of the William Scott Abbott Trust as part of a programme of building works to restore and conserve the historic Grade II* Listed mid-18th-century watermill and to improve visitor access. The monitoring was of a test pit adjacent to the south-eastern gable wall of the mill building. The test pit was dug in order to investigate the foundations of the mill and to gauge the suitability of the ground for construction of an external staircase.

1.2 The client received advice from the Peterborough City Council Planning Archaeologist, Rebecca Casa-Hatton, that due to the historic and architectural importance of the watermill, archaeological monitoring of the test pit would be required. No formal brief for archaeological work was issued. The fieldwork took place on the 19th February 2013 and was managed for PCA by Mark Hinman and supervised by Tom Woolhouse.

1.3 Sacrewell Farm is located approximately 8km west of Peterborough, just north-east of the junction of the A1 and A47. The watermill is situated at *c*. 10m OD in the valley of a small stream which flows eastwards into the river Nene (Plates 2 and 3). A farm track runs approximately north to south past the east side of the mill buildings (Plates 4 and 5). The test pit was located directly beside the wall of the building, outside the room currently used as a toilet, in a part of the building which has a shallower pitched roof and is likely to be a slightly later extension to the original mid-18th-century groundplan (Plates 6-8). The solid geology of the area is Lincolnshire Limestone (British Geological Survey); no superficial geology is mapped but deposits of alluvium are likely to occur in places along the course of the stream. The stream is prone to periodic flooding (Head Ranger, pers. comm.).

2 ARCHAEOLOGICAL AND HISTORICAL BACKGROUND

2.1 Sacrewell Mill is a Grade II* Listed mid-18th-century pitchback watermill. Domesday Book records three watermills in the Wittering area, one of which is likely to have been on this site. After the Norman Conquest, Sacrewell Farm was part of the manor of Thornhaugh and is recorded as being owned by the St Medard family. In the 16th century, the land passed to the ownership of the Bedford Estate. All the main extant buildings were constructed in around 1750, when the land went from supporting 20 or more farmers to there being just three main tenants. In 1917, the farm was bought by William Scott Abbott. He and his wife Mary were keen for the farm to prosper and benefit others, so arranged for ownership to pass to a charitable trust after their deaths.

3 METHODOLOGY

3.1 The monitoring archaeologist was present on site on the 19th February 2013 and observed the excavation of a 0.75m square hand-dug test pit adjacent to the south-eastern elevation of the mill building. Excavation ceased at a depth of 0.57m, when the Lincolnshire Limestone solid geology was encountered.

3.2 All aspects of the monitoring were conducted in accordance with the Institute for Archaeologists' Code of Conduct and the Standards and Guidance for Archaeological Field Evaluations (2008), as well as the Standards for Field Archaeology in the East of England (Gurney 2003). Field techniques and guidance are detailed within the PCA fieldwork induction manual (Taylor and Brown 2009).

4 RESULTS

4.1 Beneath the grass verge adjacent to the south-east elevation of the mill is a shallow (0.15m deep) garden soil (1). Below this, the modern asphalt surface (2) of the adjacent farm track (up to 0.10m deep) extends right up to the wall of the mill building. The surface of the farm track is constructed on top of a 0.17m deep levelling layer of small to medium-sized (<180mm) and generally flat limestone rubble fragments in a silty sand matrix (3) (Plate 13).

4.2 Below (3) is a compact yellowy-orange silty sand layer (4) which becomes thicker to the east (up to 0.10m) (Plate 9). This overlies a layer of fairly tightly-packed limestone rubble in sandy silt (5), similar to Levelling Layer (3) but firmer. Layer (5) becomes shallower to the east, measuring 0.13m deep adjacent to the side of the mill but only 0.05m deep at the south-east edge of the test pit. The overlying silty sand layer (4) is likely to be a flood-borne alluvial deposit from the stream located a few metres to the east. Layer (5) represents an earlier metalled surface of the farm track, still thick adjacent to the side of the mill building, but worn and therefore shallower further away from the side of the building, where most of the farm traffic is likely to have moved (Plate 13).

4.3 The Lincolnshire Limestone solid geology is present at 0.57m below modern ground level (Plates 11 and 13).

4.4 The below-ground foundations of the mill consist of four courses of roughly squared Barnack Limestone blocks (7), generally measuring around 180-220mm long x 100-120mm deep (width unknown as only seen in elevation) separated by 10mm joints containing light grey-yellow lime mortar (Plates 11 and 12). The stones are identical to the blocks used in the above-ground part of the wall apart from being slightly smaller on average. Whether there is any consistent coursing was difficult to determine within the small test pit, but the blocks appeared to be laid in a

stretcher bond. The lowest course rests on a foundation layer (0.12m deep) of rough limestone rubble fragments (each <150mm) bonded with the same lime mortar (8) and resting directly (unbonded) on the surface of the bedrock.

4.5 Directly in front of the mill's wall foundation and parallel to it was a low (0.30m high in total) north to south-aligned brick wall (9) (Plates 9 and 10). This comprised two courses of pinkish-red bricks with relatively even firing, sparse to moderate small quartz inclusions, fairy regular arises and dimensions of 220 x 68 x 52mm. The bricks were laid on their sides rather than flat and bonded with light bluish-grey cement. The brick courses were bonded to a 0.16m deep foundation of limestone rubble (10), which was cut through alluvial Layer (4) and sealed by Levelling Layer (3) and Asphalt (2). To the west, there was a 10mm gap between Brick Wall (9) and Masonry Wall (7); the two were bonded together with the same cement used to bond the bricks. The appearance of the bricks and the stratigraphic position of the wall suggest a *c*. 19th-century date. The wall's ephemeral construction indicates that it was associated with a small outbuilding, such as a shed or store, or a non-structural wall, rather than being part of a larger building.

5 CONCLUSIONS

The monitoring identified the Barnack Limestone foundations of the mill, the later (*c*. 19th-century) brick foundation of a small outbuilding or lean-to structure, and an undated earlier metalled surface of the farm track which runs north to south past the mill buildings. The Lincolnshire Limestone solid geology is present at 0.57m below modern ground level.

6 ACKNOWLEDGEMENTS

Pre-Construct Archaeology Limited is grateful to Matthew Wittrick of Purcell UK Limited for commissioning the project and to staff at Sacrewell Farm and Country Centre for their assistance.

7 REFERENCES

Gurney, D. 2003 *Standards for Field Archaeology in the East of England*. East Anglian Archaeology Occasional Paper No. 14, ALGAO, Gressenhall

Institute for Archaeologists 2008 *Code of Conduct and Standards and Guidance for Archaeological Field Evaluations*

Taylor, G. and Brown, J. 2009 *Fieldwork Induction Manual.* Pre-Construct Archaeology Ltd, London

APPENDIX 1: PLATES

Plate 1: Sacrewell Mill, view north-west

Plate 2: Mill stream to east of mill, view east

Plate 3: Mill Stream to east of mill, view south

Plate 4: Farm track to east of mill, view south

Plate 5: Farm track to east of mill, view north

Plate 6: Mill building, south-east and north-east elevations, view west

Plate 7: Location of test pit

Plate 8: The shallower pitched roof (right hand side) over the current hallway and toilet of the mill is a slightly later (*i.e*. after the mid 18th century) extension

Plate 9: Silty sand alluvial deposit (4), cut by rubble foundation (10) of Brick Wall (9), view west (50cm scale)

Plate 10: Brick Wall (9), view west (50cm scale)

Plate 11: Barnack Limestone foundations (7) and (8) of mill, resting on Lincolnshire Limestone bedrock (6), view west (50cm scale)

Plate 12: Barnack Limestone foundations (7) and (8) of mill, view west (50cm scale)

Plate 13: South-facing section of test pit, showing (from top to bottom): Topsoil (1), Asphalt (2), Levelling Layer (3), Alluvium (4), (sloping down to east) Metalled Surface (5), and the Lincolnshire Limestone Natural Geology (6) (50cm scale)

APPENDIX 2: CONTEXT REGISTER

Context	Type	Category	Notes
(1)	Topsoil	Layer	Soil of grass verge between south-east elevation of mill building and farm track. Modern.
(2)	Asphalt	Layer	Current surface of farm track, extending under verge. Modern.
(3)	Levelling Layer	Layer	Limestone rubble in silty sand matrix. Levelling deposit for farm track. Modern.
(4)	Alluvium	Layer	Silty sand flood-borne deposit.
(5)	Metalled Surface	Layer	Tightly-packed limestone rubble in silty sand matrix. Earlier surface of farm track. Undated.
(6)	Natural Geology	Layer	Lincolnshire Limestone solid geology.
(7)	Masonry Wall	Structure	Squared Barnack Limestone blocks bonded with lime mortar. Foundation for south-eastern elevation of mill building. Mid 18th C+.
(8)	Foundation	Structure	Limestone rubble foundation for (7). Mid 18th C+.
(9)	Brick Wall	Structure	Red brick wall foundation bonded with cement. 19th-century?
(10)	Foundation	Structure	Limestone rubble foundation for (9). 19th-century?

APPENDIX 3: OASIS SUMMARY

OASIS ID: preconst1-144200

Project details

Project name	Archaeological Monitoring at Sacrewell Watermill, Thornhaugh
Short description of the project	Pre-Construct Archaeology was commissioned by Purcell UK Limited on behalf of the William Scott Abbott Trust to carry out archaeological monitoring of a hand-dug test pit adjacent to the south-eastern gable wall of the mid-18th-century Grade II* Listed watermill at Sacrewell Farm, Thornhaugh, Peterborough. Heritage Lottery Funding has been granted to restore and conserve the mill and to improve visitor access. The test pit was dug in order to investigate the foundations of the mill and to gauge the suitability of the ground for construction of an external staircase. The monitoring was undertaken on 19th February 2013. The Barnack limestone foundations of the mill were revealed, in addition to the brick foundation of a small later (c. 19th-century) outbuilding or wall, and an earlier undated metalled track underlying the existing farm track to the east of the mill building.
Project dates	Start: 19-02-2013 End: 19-02-2013
Previous/future work	Not known / Not known
Type of project	Recording project
Site status	Listed Building
Current Land use	Community Service 2 - Leisure and recreational buildings
Monument type	WALL Post Medieval
Monument type	WALL Post Medieval
Monument type	COBBLED ROAD Uncertain
Significant Finds	BRICK Post Medieval
Investigation type	"Test-Pit Survey"
Prompt	Planning condition

Project location

Country	England
Site location	CAMBRIDGESHIRE PETERBOROUGH THORNHAUGH Sacrewell Watermill, Sacrewell Farm, Thornhaugh, Peterborough
Postcode	PE8 6HJ
Study area	0.60 Square metres
Site coordinates	TF 07905 00057 52 0 52 35 14 N 000 24 25 W Point
Height OD / Depth	Min: 9.40m Max: 9.40m

Project creators

Name of Organisation	Pre-Construct Archaeology Ltd
Project brief originator	Rebecca Casa-Hatton
Project design originator	Mark Hinman
Project director/manager	Mark Hinman
Project supervisor	Tom Woolhouse
Type of sponsor/funding body	Charity
Name of sponsor/funding body	The William Scott Abbott Trust

Project archives

Physical Archive Exists?	No
Physical Archive notes	No finds
Digital Archive recipient	Cambridgeshire County Council Archaeology Store
Digital Contents	"none"
Digital Media available	"Images raster / digital photography","Text"
Digital Archive notes	Digital photos and grey report only
Paper Archive recipient	Cambridgeshire County Council Archaeology Store
Paper Contents	"none"
Paper Media available	"Unpublished Text"

Project bibliography 1

Publication type	Grey literature (unpublished document/manuscript)
Title	Archaeological Monitoring at Sacrewell Mill, Sacrewell Farm, Great North Road, Thornhaugh, Peterborough, PE8 6HJ
Author(s)/Editor(s)	Woolhouse, T.

Date	2013
Issuer or publisher	Pre-Construct Archaeology
Place of issue or publication	Stapleford
Description	30-page A4 bound report containing 13 digital photos and a location plan of the test pit
Entered by	Thomas Woolhouse (twoolhouse@pre-construct.com)
Entered on	**20 FEBRUARY 2013**

OASIS:

Please e-mail English Heritage for OASIS help and advice

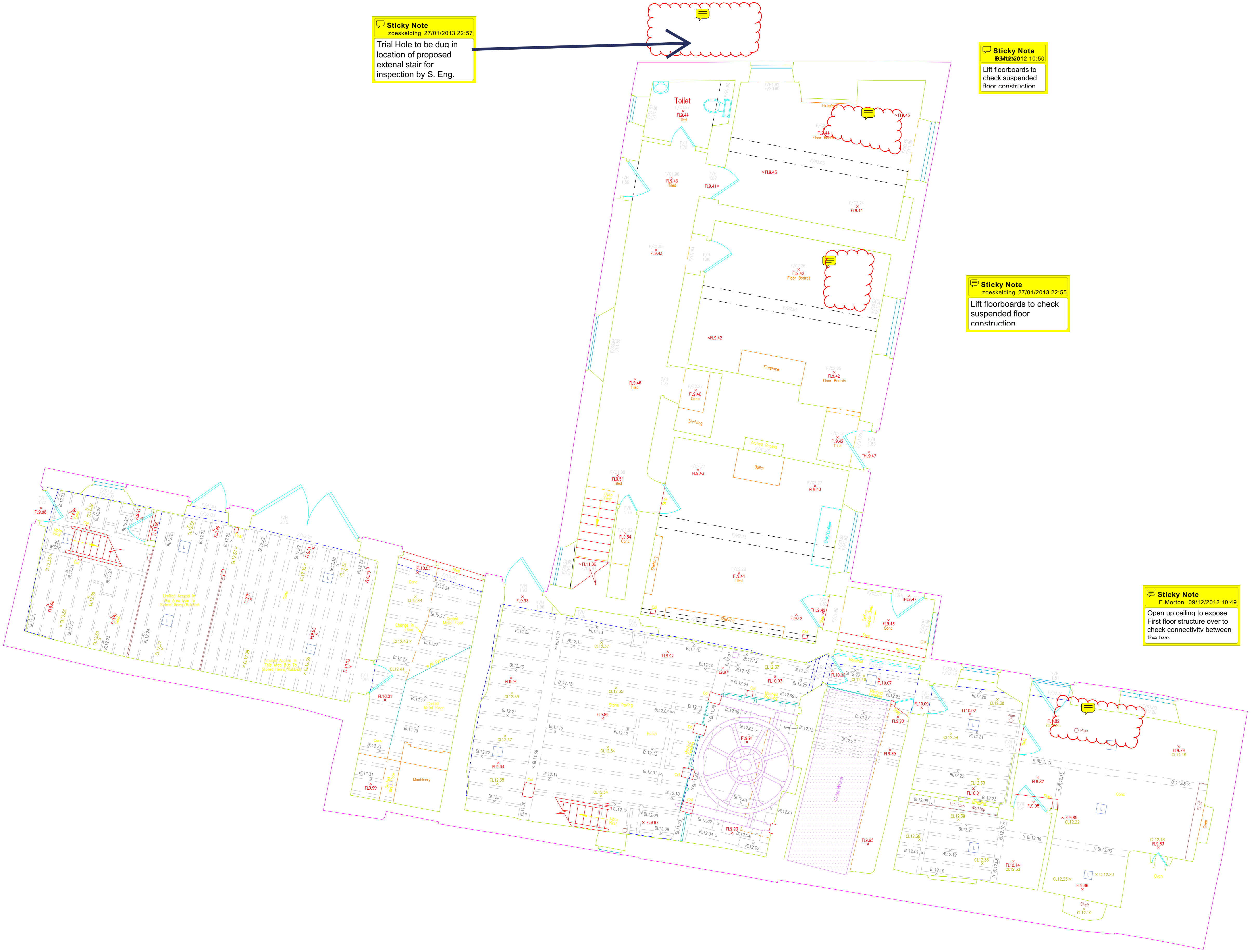
Cite only: http://www.oasis.ac.uk/form/print.cfm for this page

Sticky Note
zoeskelding 27/01/2013 22:57
Trial Hole to be dug in location of proposed extenal stair for inspection by S. Eng.

Sticky Note
E.Morton 09/12/2012 10:50
Lift floorboards to check suspended floor construction

Sticky Note
zoeskelding 27/01/2013 22:55
Lift floorboards to check suspended floor construction

Sticky Note
E.Morton 09/12/2012 10:49
Open up ceiling to expose First floor structure over to check connectivity between the two



1 0 1 2 3 4 5 6 7 Metres
Scale Bar

Survey Notes
Grid: N/A
Levels: Related to Arbitrary Datum 10.00m
Located as Threshold level

Notes

Measured Building Survey Legend

ELECTRICAL SERVICES
- MCU : Mains consumer unit/Fusebox/Meter
- : Single wall socket
- : Double wall socket
- : Single wall socket and switch
- : Double wall socket and switch
- 1 : Single floor socket
- 2 : Double floor socket
- : 1-way lighting switch
- : 2-way lighting switch
- L : Ceiling point lighting
- : Fluorescent light fittings
- Lighting Pullcord
- SL : Spot lighting
- : Wall lighting
- EL : Emergency lighting
- : Emergency lighting
- : Fused spur connection box with switch
- : Unfused spur connection box
- C : Cooker connection box
- : Earth point
- : Incoming Electrical point
- : Strobe Warning Light

SECURITY SERVICES
- : CCTV
- : Passive infa-red detector
- SAP : Security alarm panel
- : Security Door Swipe
- : Intergrated CCTV & Intercom
- E : Emergency Door Release
- D : Door Release
- SC : Smoke Cloak
- A : Alarm Siren
- : Panic button

MISCELLANEOUS INTERNAL FIXTURES
- : Doorswing
- : Urinal
- : Toilet
- Sink & Drainer
- : Double Sink
- : Sink
- : Hand Basin
- : Hand Dryer
- : Showerhead
- : Shower
- : Bath
- : Breakline between stairs from floor to floor

WATER SERVICES
- : Incoming water point
- ST : Stop tap
- W : Water meter
- HWH : Hot water heater

GAS SERVICES
- G : Incoming gas point
- G : Gas meter

HEATING / AIR CONDITIONING SERVICES
- R : Radiator
- CHB : Central heating boiler
- ESH : Electricity storage heater
- HWT : Hot water tank
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- ACU : Air conditioning unit
- V : Ventilation duct (ceiling)
- : Air conditioning vent (wall)
- T : Central heating thermostat

FIRE PRECAUTION SERVICES
- : Smoke detector
- SP : Sprinkler
- : Fire alarm
- : Fire alarm push
- F CO2 : Fire extinguisher (Carbon dioxide)
- F W : Fire extinguisher (Water)
- F P : Fire extinguisher (Powder)

COMMUNICATION SERVICES
- T : Telephone outlet
- C : Comms outlet
- I : Intercom
- : Television co-axial outlet
- : Bell push
- : Panic Button
- : Speaker
- : Sensor (general)
- : LAN Box
- : Router
- D : Disabled Help Button

GENERAL ABBREVIATIONS
F/A	Floor to Arch Height or Apex
F/B	Floor to Beam Height
F/C	Floor to Ceiling Height
F/FC	Floor to False Ceiling Height
F/H	Floor to Head Height
F/SP	Floor to Springing Height
F/S	Floor to Sill Height
F/U	Floor to Underside Height
FL	Floor Level
HT	General Height
BUW	Bricked Up Window
COL	Column
P	Partition
RSJ	Rolled Steel Joist
STAN	Stanchions
MH	Manhole
IC	Inspection Chamber
CL	Cover Level
IL	Invert Level
F/BT	Floor to beam top
FFL	Finished floor level
FCL	False ceiling level
SCL	Structural ceiling level
WAL	Window arch level
WSL	Window sill level
WHL	Window head level
WASL	Window arch springing level
SPL	Springing level
AL	Arch level
TWL	Top of wall level
DHL	Door head level
GL	General level
JB	Junction Box

Rev.	Date	Description

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survey@mhls.co.uk

Accreditations
RICS, chartered ICES, THE SURVEY ASSOCIATION, BSI REGISTERED FS 14126, Link-up Registered

Client
SMITHS GORE
STUART HOUSE, CITY ROAD
PETERBOROUGH, PE1 1QF

Project
SACREWELL FARM
PETERBOROUGH
PE8 6HJ

Drawing Title
GROUND FLOOR PLAN

Drawn By	A.W	02/12/11	Survey Date	November 2011
Checked by	B.M	02/12/11	Scale	1 : 50

Drawing No 14002 / FP1
Revision

Sticky Note
E.M08/12/2012 10:55
Remove infill between rafters to allow inspection of plate and rafter feet

Sticky Note
E.M08/12/2012 10:55
Remove infill between rafters to allow inspection of plate and rafter feet

1 0 1 2 3 4 5 6 7 Metres
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Drawing Title
FIRST FLOOR PLAN

Drawn By	A.W	08/12/11
Checked by	B.M	08/12/11
Survey Date	November 2011	
Scale	1 : 50	

Drawing No: 14002 / FP2
Revision:

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Remove infill between rafters to allow inspection of plate and rafter feet

Sticky Note
E.Mo 22/2012 10:53
Remove infill between rafters to allow inspection of plate and rafter feet

Sticky Note
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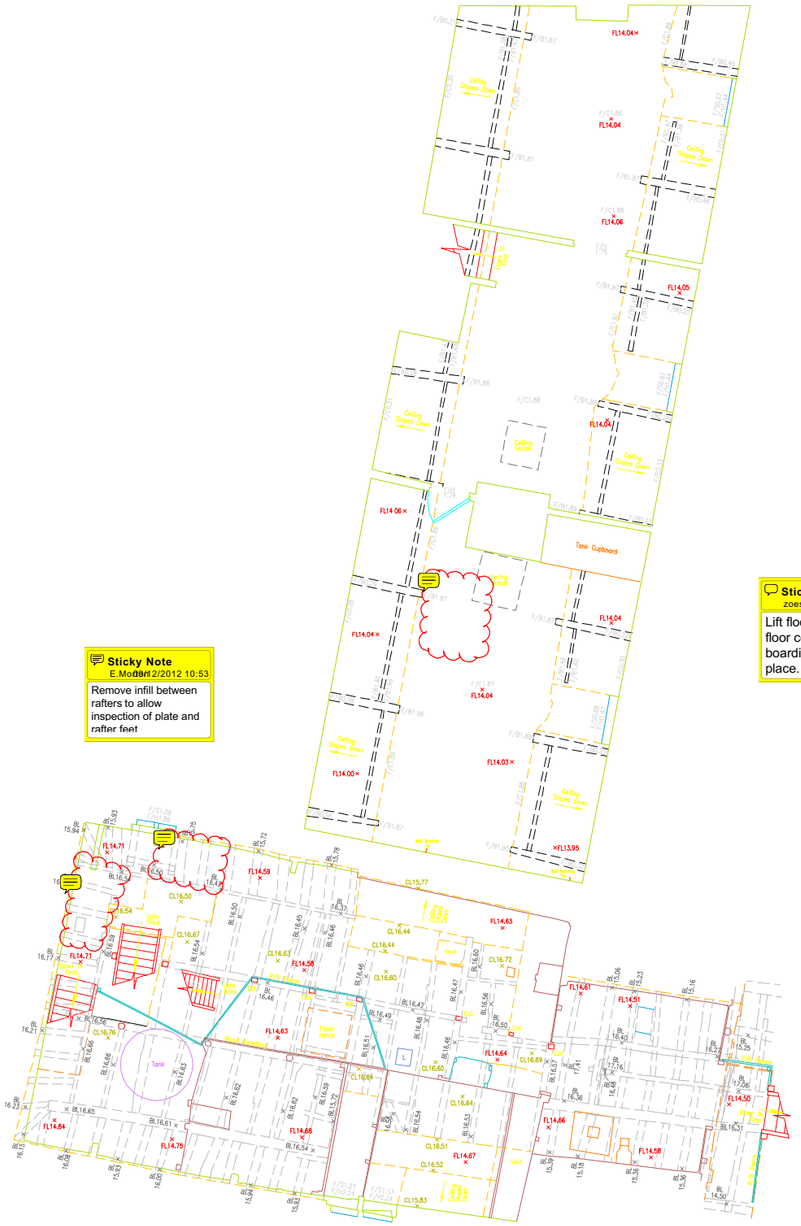
Lift floor boards to check floor construction, double boarding appears to be in place.



1 0 1 2 3 4 5 6 7 Metres
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MALCOLM HUGHES
LAND SURVEYORS
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Accreditations

Client
SMITHS GORE
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Project
SACREWELL FARM
PETERBOROUGH
PE8 6HJ

Drawing Title
SECOND FLOOR PLAN

Drawn By	A.W	16/12/11	Survey Date: November 2011
Checked by	B.M	16/12/11	Scale: 1 : 50

Drawing No: 14002 / FP3
Revision:

Survey Notes

Grid: N/A

Levels: Related to Arbitrary Datum 10.00m
Located as Threshold level

Notes

Measured Building Survey Legend

ELECTRICAL SERVICES

- MCU : Mains consumer unit/Fusebox/Meter
- : Single wall socket
- : Double wall socket
- : Single wall socket and switch
- : Double wall socket and switch
- 1 : Single floor socket
- 2 : Double floor socket
- : 1-way lighting switch
- : 2-way lighting switch
- CL : Ceiling point lighting
- : Fluorescent light fittings
- : Lighting Pullcord
- SL : Spot lighting
- : Wall lighting
- EL : Emergency lighting
- : Emergency lighting
- : Fused spur connection box with switch
- : Unfused spur connection box
- : Cooker connection box
- : Earth point
- : Incoming Electrical point
- : Strobe Warning Light

WATER SERVICES

- : Incoming water point
- ST : Stop tap
- : Water meter
- HWH : Hot water heater

GAS SERVICES

- : Incoming gas point
- : Gas meter

HEATING / AIR CONDITIONING SERVICES

- : Radiator
- CHB : Central heating boiler
- ESH : Electricity storage heater
- HWT : Hot water tank
- CWT : Cold water tank
- ACU : Air conditioning unit
- V : Ventilation duct (ceiling)
- : Air conditioning vent (wall)
- : Central heating thermostat

FIRE PRECAUTION SERVICES

- : Smoke detector
- SP : Sprinkler
- : Fire alarm
- : Fire alarm push
- F CO_2 : Fire extinguisher (Carbon dioxide)
- F W : Fire extinguisher (Water)
- F P : Fire extinguisher (Powder)

COMMUNICATION SERVICES

- : Telephone outlet
- : Comms outlet
- : Intercom
- : Television co-axial outlet
- : Bell push
- : Panic Button
- : Speaker
- : Sensor (general)
- : LAN Box
- : Router
- : Disabled Help Button

SECURITY SERVICES

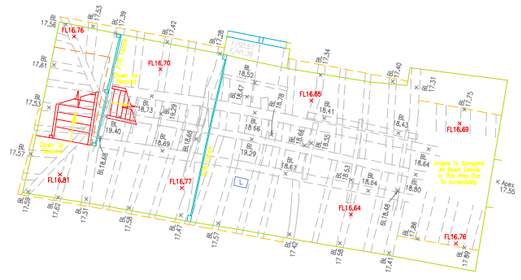
- : CCTV
- : Passive Info-red detector
- SAP : Security alarm panel
- : Security Door Swipe
- : Intergrated CCTV & Intercom
- : Emergency Door Release
- : Door Release
- : Smoke Cloak
- : Alarm Siren
- : Panic button

MISCELLANEOUS INTERNAL FIXTURES

- : Doorswing
- : Urinal
- : Toilet
- : Sink & Drainer
- : Double Sink
- : Sink
- : Hand Basin
- : Hand Dryer
- : Showerhead
- : Shower
- : Bath
- : Breakline between stairs from floor to floor

GENERAL ABBREVIATIONS

F/A	Floor to Arch Height or Apex
F/B	Floor to Beam Height
F/C	Floor to Ceiling Height
F/FC	Floor to False Ceiling Height
F/H	Floor to Head Height
F/SP	Floor to Springing Height
F/S	Floor to Sill Height
F/U	Floor to Underside Height
FL	Floor Level
HT	General Height
BUW	Bricked Up Window
COL	Column
P	Partition
RSJ	Rolled Steel Joist
STAN	Stanchions
MH	Manhole
IC	Inspection Chamber
CL	Cover Level
IL	Invert Level
F/BT	Floor to beam top
FFL	Finished floor level
FCL	False ceiling level
SOL	Structural ceiling level
WAL	Window arch level
WSL	Window sill level
WHL	Window head level
WASL	Window arch springing level
SPL	Springing level
AL	Arch level
TWL	Top of wall level
DHL	Door head level
GL	General level
JB	Junction Box



1 0 1 2 3 4 5 6 7 Metres

Scale Bar

Rev.	Date	Description

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Drawing Title

THIRD FLOOR PLAN

Drawn By	A.W 17/12/11	Survey Date	November 2011
Checked by	B.M 17/12/11	Scale	1 : 50

Drawing No: 14002 / FP4

Revision:

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