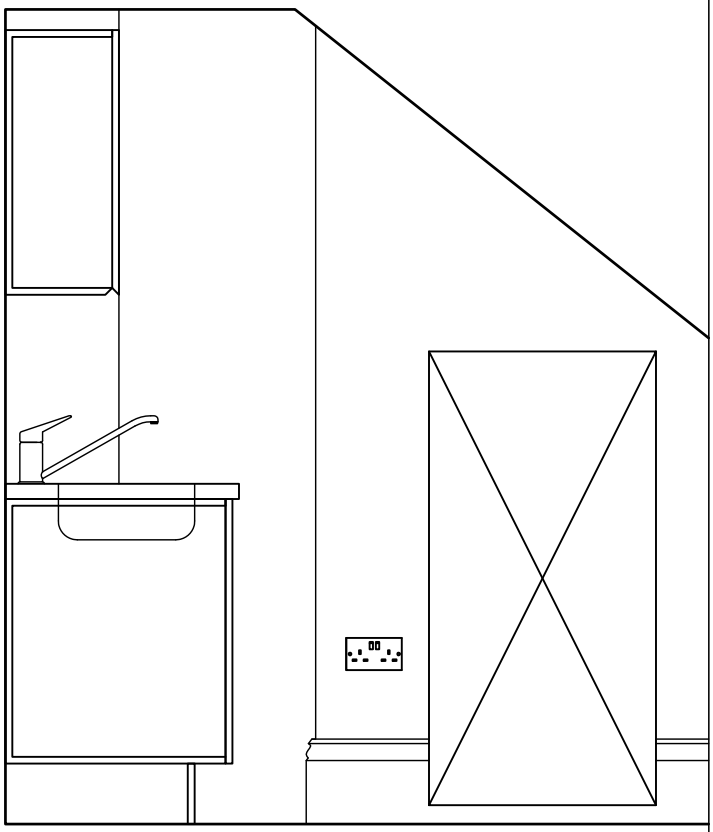
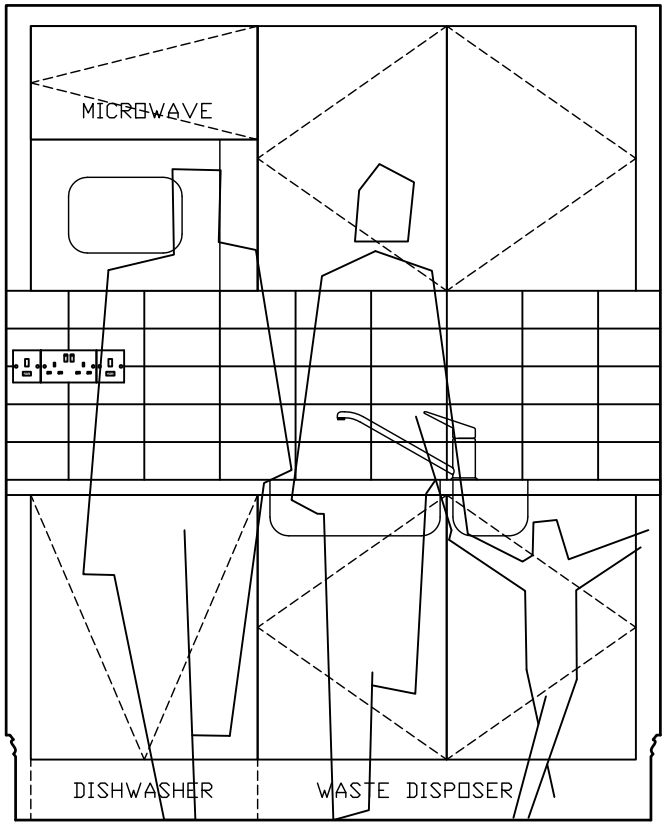
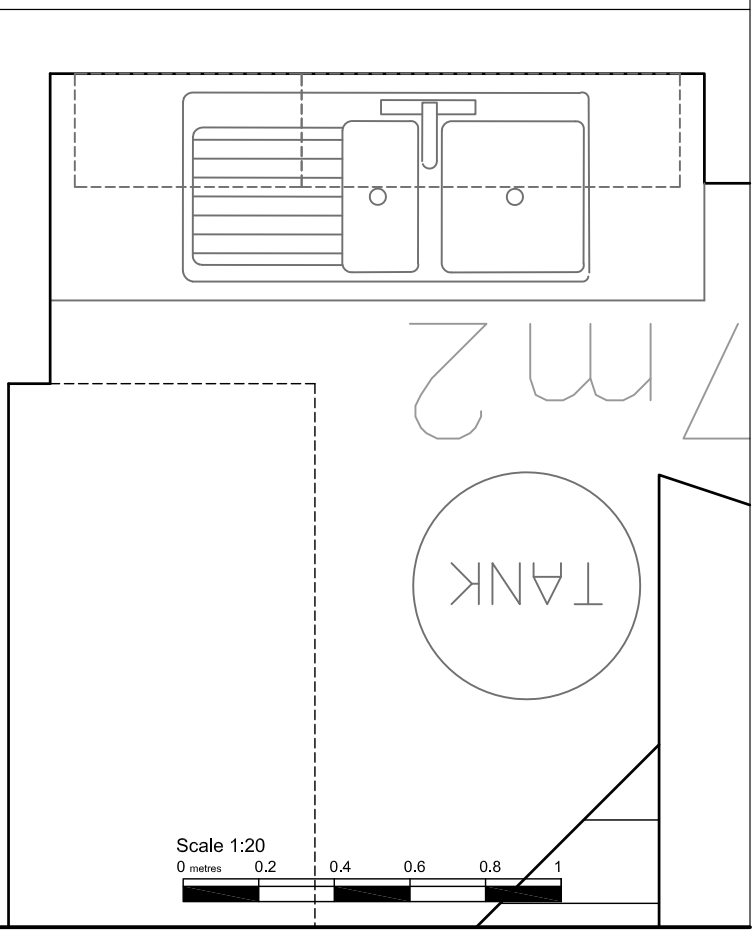
Gregory Munson RIBA . architect

REVISIONS	Detail drawings see Schedule of Works Remove modern boiler room	30 Museum Street, WC1A 1LH for P Athill Esq.			
A 16.10.15		SCALE	DATE	DWG.No	REV
		1:20@A3	25.09.15	B1	A

34 RAGLAN STREET, LONDON, NW5 3DA. TEL 07887 545004 EMAIL gregorymunson@ymail.com







Gregory Munson RIBA . architect

REVISIONS	Detail drawings see Schedule of Works Basement Teapoint	30 Museum Street, WC1A 1LH for P Athill Esq.			
A 16.10.15		SCALE	DATE	DWG.No	REV
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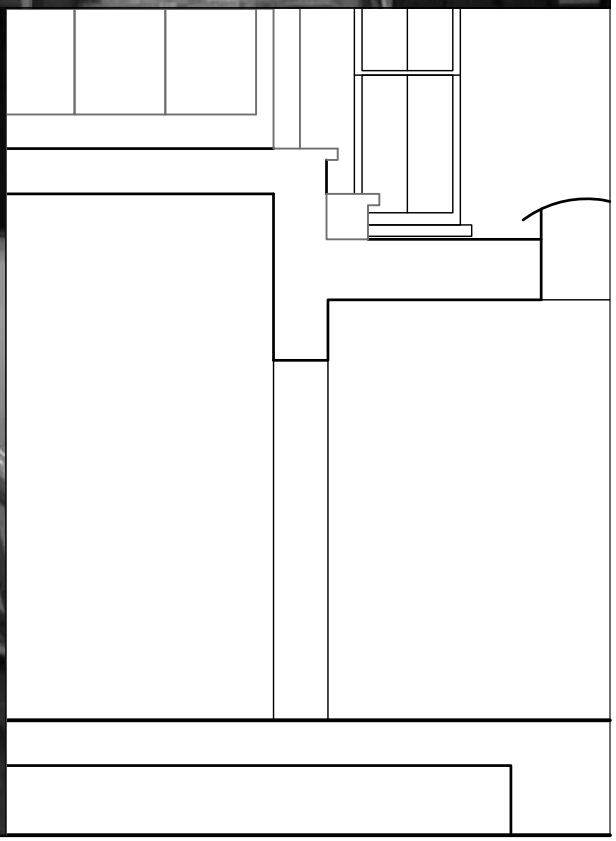

Gregory Munson RIBA . architect

REVISIONS A 16.10.15	Detail drawings see Schedule of Works Remove modern doorway	30 Museum Street, WC1A 1LH for P Athill Esq.			
		SCALE 1:20@A3	DATE 25.09.15	DWG.No G1	REV A

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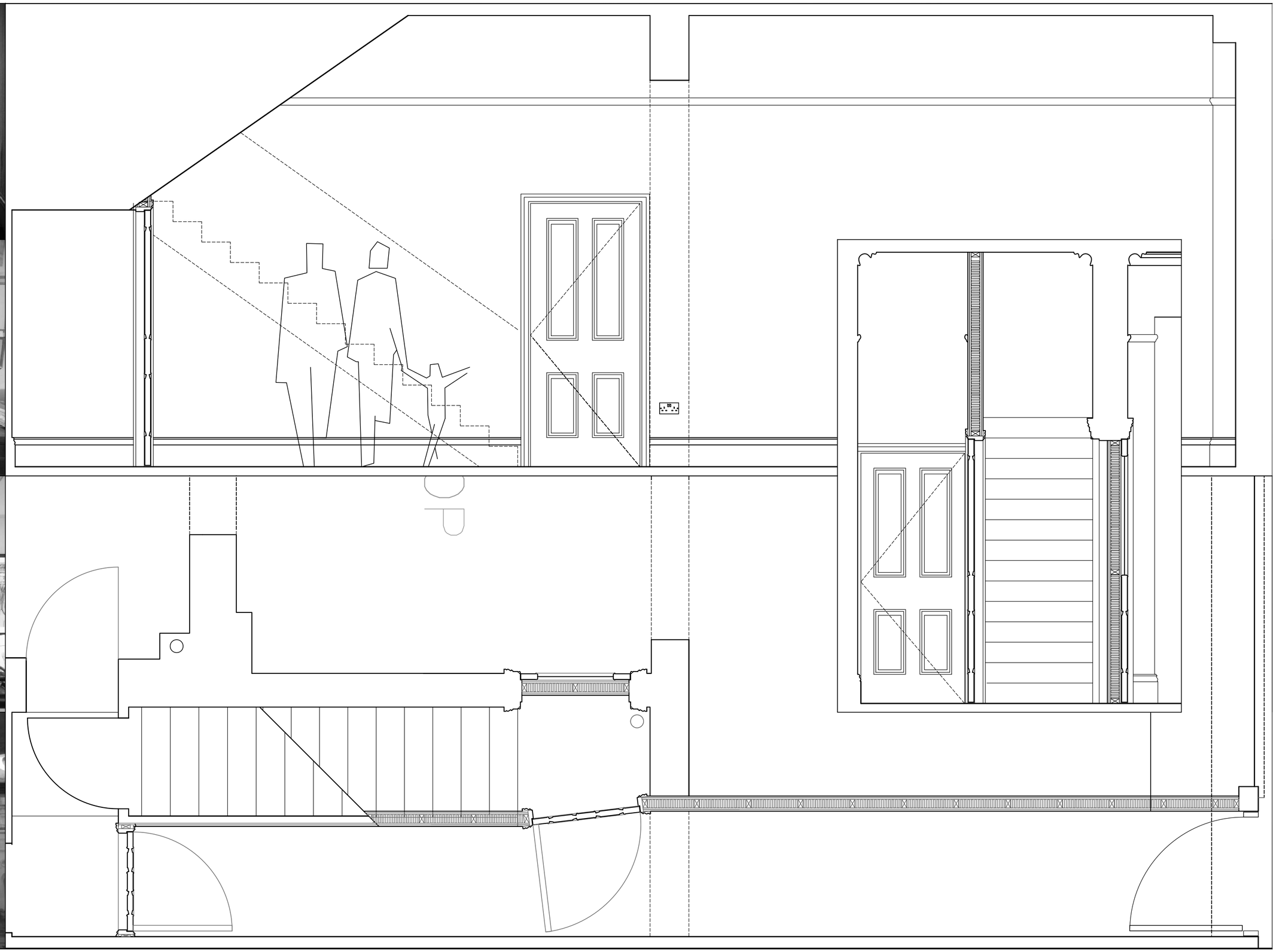

Gregory Munson RIBA . architect

Scale 1:20
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REVISIONS		30 Museum Street, WC1A 1LH for P Athill Esq.			
A 16.10.15	Detail drawings see Schedule of Works Entrance works	SCALE	DATE	DWG.No	REV
		1:20@A2	25.09.15	G2,G3,G4	A

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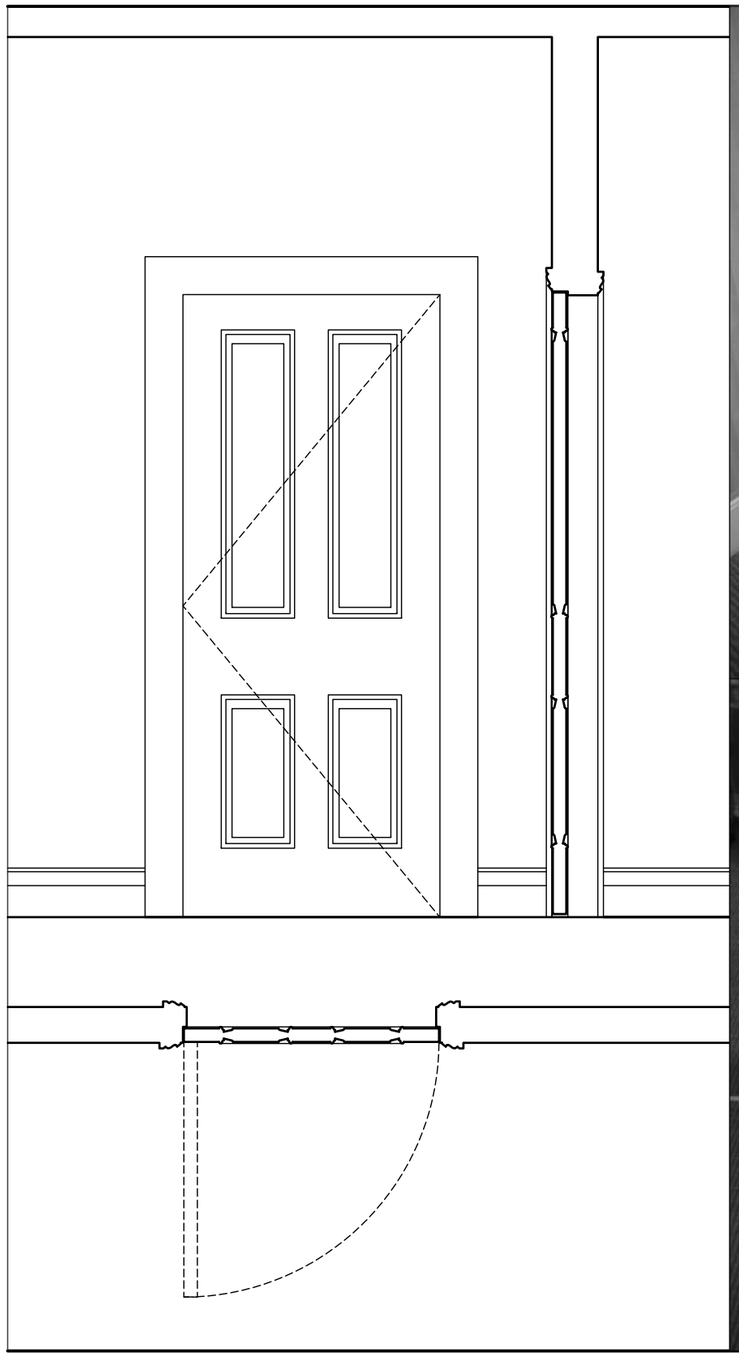

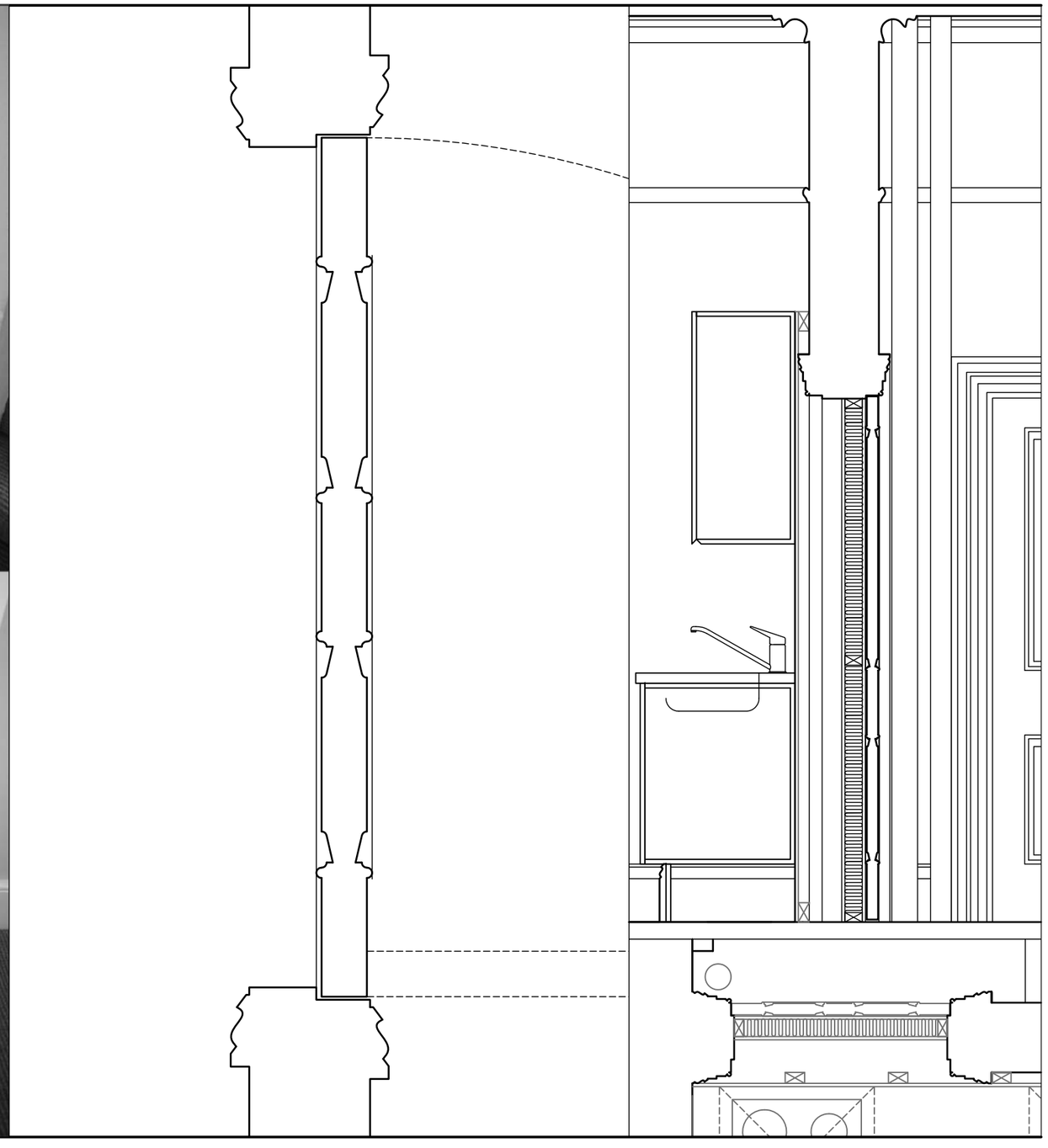

Gregory Munson RIBA . architect

Scale 1:20
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REVISIONS
A 16.10.15

Detail drawings
see Schedule of Works
Internal doors

30 Museum Street, WC1A 1LH
for P Athill Esq.

SCALE	DATE	DWG.No	REV
1:20@A3	25.09.15	G5,F4,S2,S3	A

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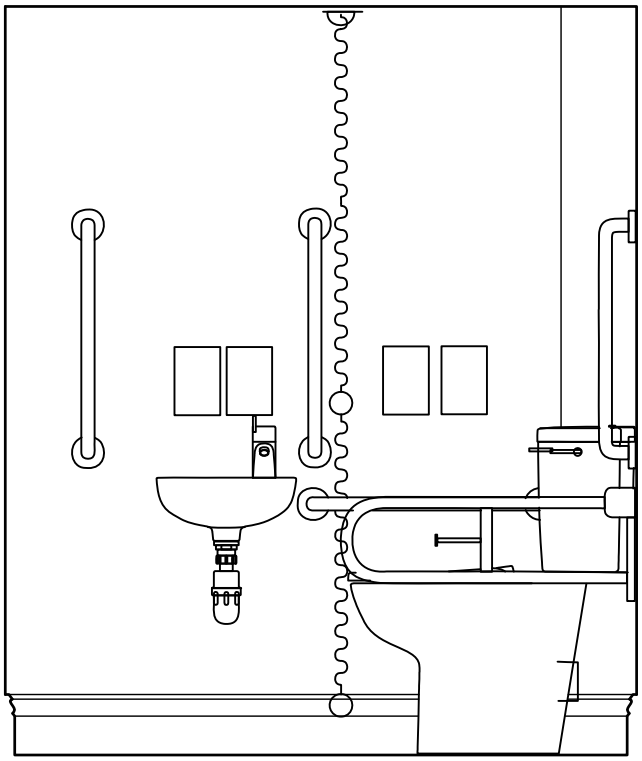

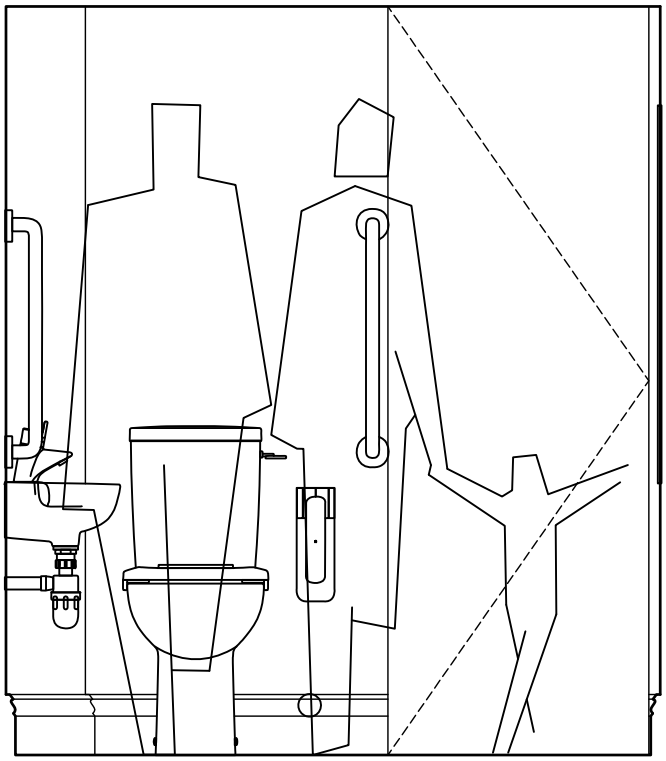

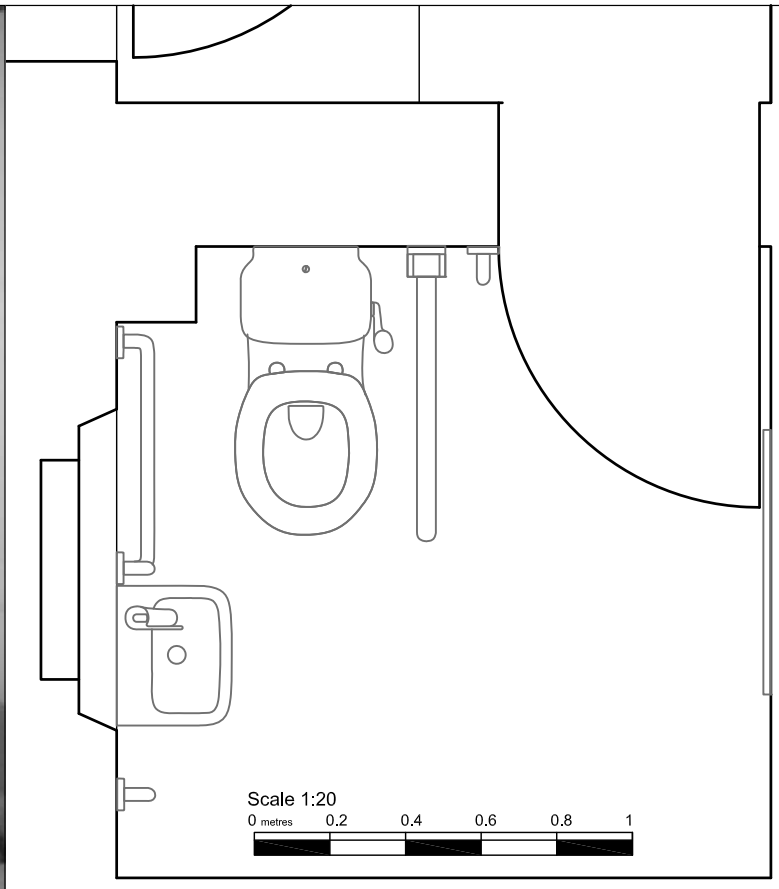

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REVISIONS	Detail drawings see Schedule of Works Shop toilet	30 Museum Street, WC1A 1LH for P Athill Esq.			
A 16.10.15		SCALE	DATE	DWG.No	REV
		1:20@A3	25.09.15	G6	A

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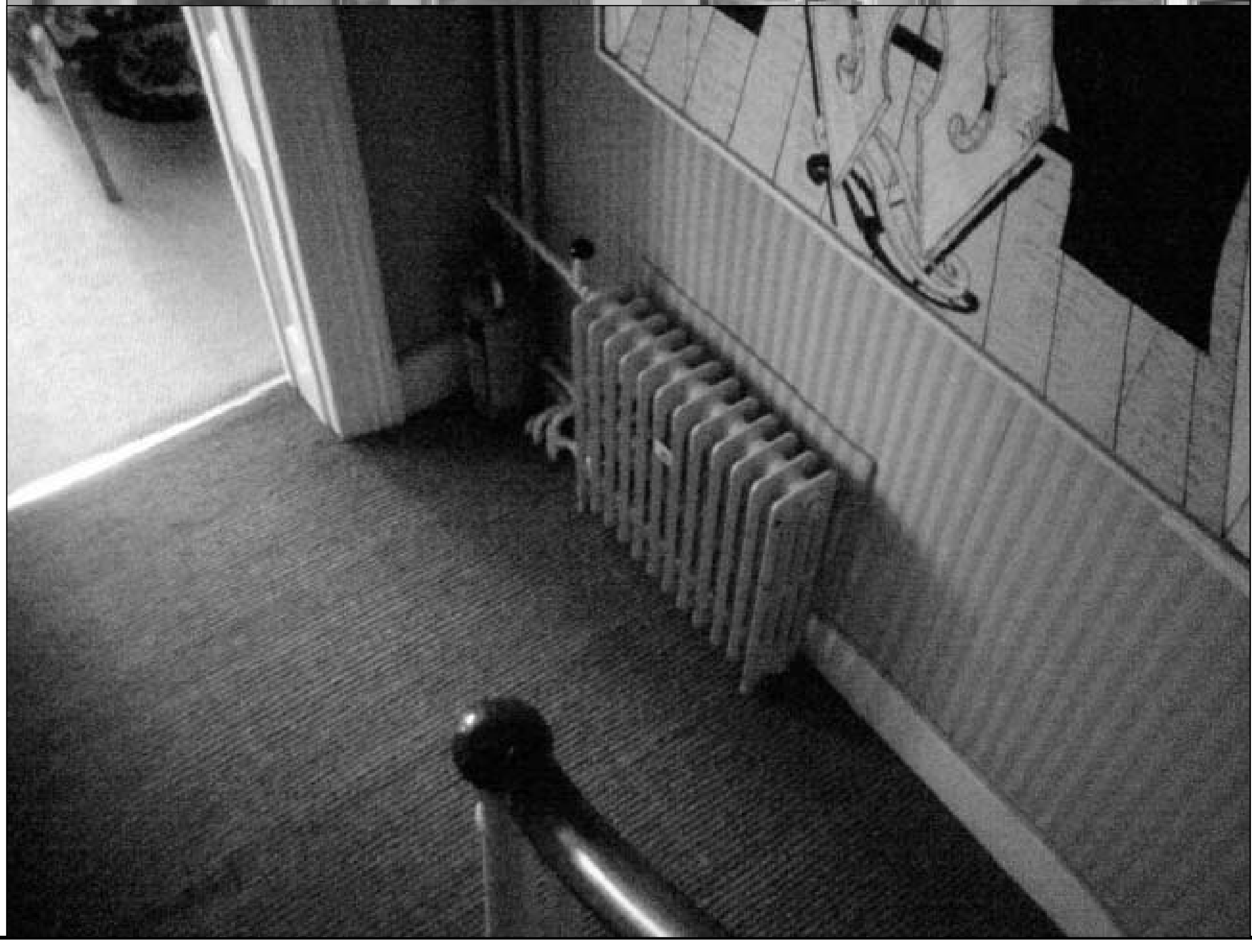

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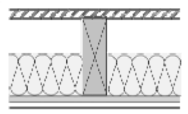
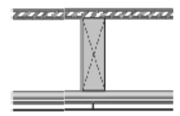
Table 2b - Indirect fix plasterboard to new or existing solid timber joist floors
Solutions to satisfy the requirements of *BS 476: Part 21: 1987*

1



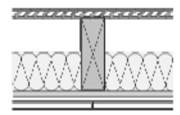
22mm t&g (softwood or chipboard) floor boarding over minimum 195mm x 38mm timber joists at 600mm centres. Gypframe RB2 SureFix Bars fixed to underside of joists at 450mm centres and at perimeter with ceiling linings as in table fixed into the bars only. 100mm Isover APR 1200 in the cavity.

2



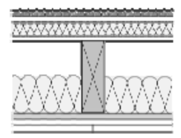
22mm t&g (softwood or chipboard) floor boarding over minimum 195mm x 38mm timber joists at 600mm centres. Gypframe RB1 Resilient Bars fixed to underside of joists at 450mm centres and at perimeter with ceiling linings as in table fixed into the bars only.

3



22mm t&g (softwood or chipboard) floor boarding over minimum 195mm x 38mm timber joists at 600mm centres. Gypframe RB1 Resilient Bars fixed to underside of joists at 450mm centres and at perimeter with ceiling linings as in table fixed into the bars only. 100mm Isover Spacesaver Ready-Cut in the cavity.

4



Typical platform floor construction (comprising walking surface of 18mm t&g wood board flooring, spot-bonded with Gyproc Sealant at 300mm centres to a substrate of Gyproc Plank laid on 25mm Isover Sound Deadening Floor Slab, laid on a minimum of 12mm wood-based sheet sub-deck nailed to the joists) over minimum 195mm x 38mm timber joists at 600mm centres. Gypframe RB1 Resilient Bars fixed to underside of joists at 450mm centres and at perimeter with ceiling linings as in table fixed into the bars only. 100mm Isover Spacesaver Ready-Cut in the cavity.

Detail	Nominal floor depth mm	Board type	Ceiling lining thickness mm	Maximum loadbearing ratio	Sound insulation R_w (R_w + Ctr) Airborne dB	Sound insulation L_{nw} Impact dB	System reference
30 minutes fire resistance BS							
1	240	WallBoard	1 x 12.5	100%	41	76	C206006
60 minutes fire resistance BS							
2	258	FireLine	2 x 12.5	100%	45	72	C016031
3	263	SoundBloc	2 x 15	100%	54	60	C206039
4	315	SoundBloc	2 x 15	100%	64 (53)	54	C016040

NB The fire resistance and sound insulation performances are for imperforate partitions, walls and ceilings incorporating boards with all joints taped and filled, or skimmed according to British Gypsum's recommendations. The quoted performances are achieved only if British Gypsum components are used throughout, and the Company's fixing recommendations are strictly observed. Any variation in the specifications should be checked with British Gypsum.

NB Where boards are fixed direct to timber joists, Gyproc Drywall Timber Screws should be used instead of nail-fixing to minimise the risk of fixing defects occurring.

Loadbearing - timber joist floors and ceilings

12

NBS work section K10 - Plasterboard drylinings / partitions / ceilings; K11 - Rigid sheet flooring / sheathing / sarking / decking / linings / castings; K20 - Timber board flooring / sarking / linings / castings

453

Gregory Munson RIBA . architect

REVISIONS			
A 16.10.15	Detail drawings see Schedule of Works Fire and acoustic separation	30 Museum Street, WC1A 1LH for P Athill Esq.	

SCALE	DATE	DWG.No	REV
1:20@A3	25.09.15	F1	A

Scale 1:20
0 metres 0.2 0.4 0.6 0.8 1

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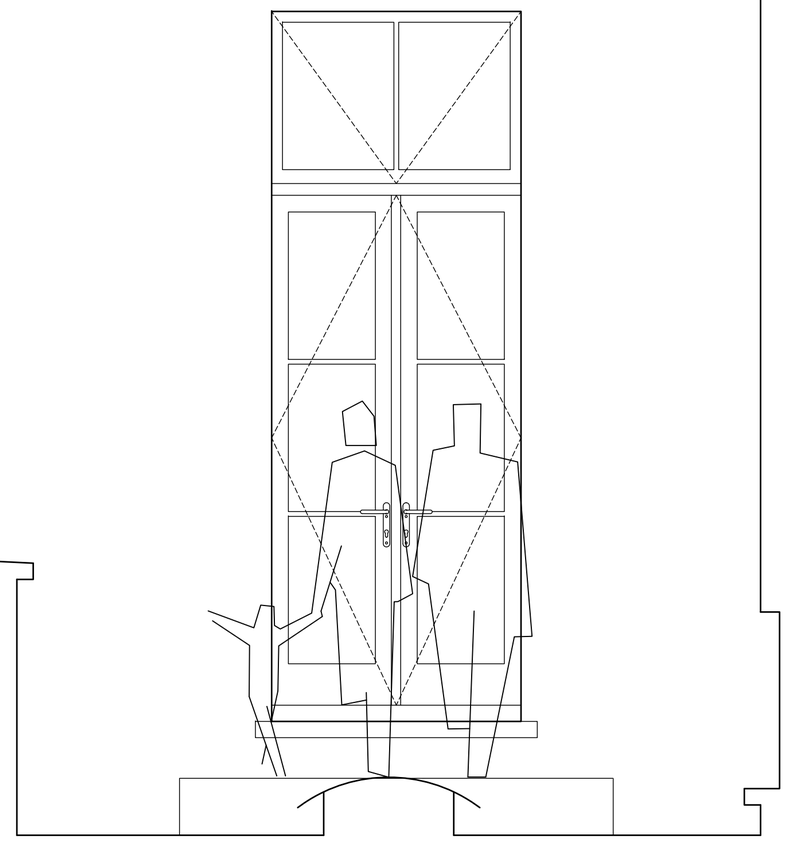
SECOND FLOOR OF CLOSET WING

FIRST FLOOR OF CLOSET WING

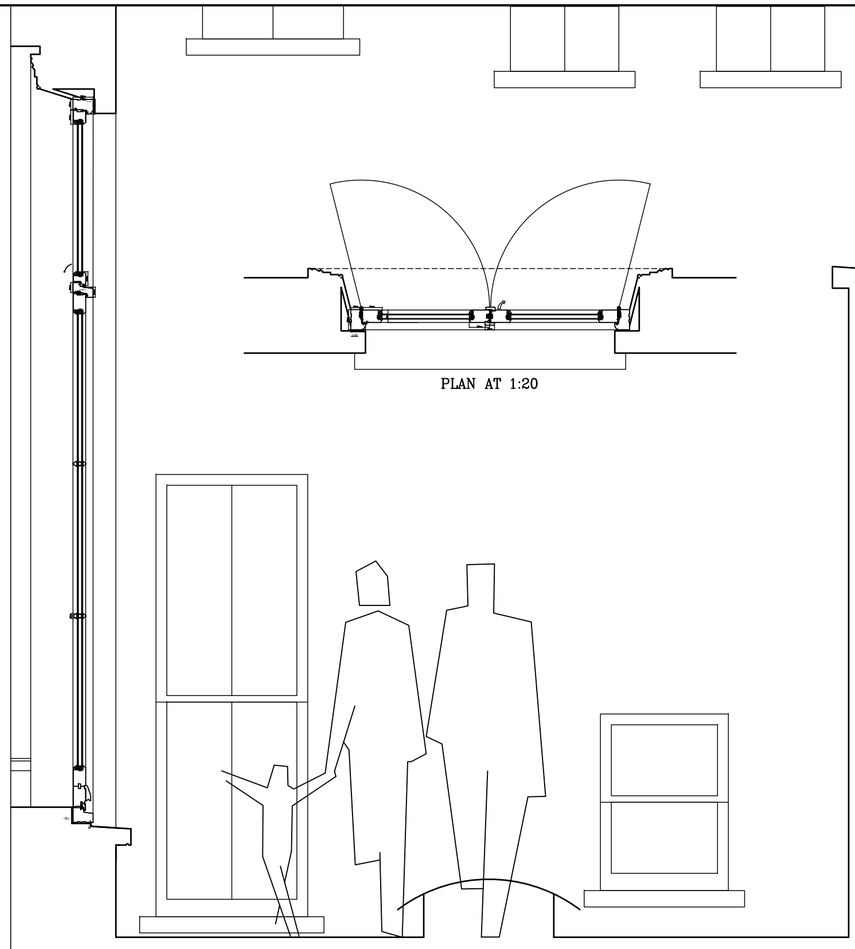
35 LITTLE RUSSELL ST.

BLIND BOUNDARY WITH

PROPOSED ROOF TERRACE

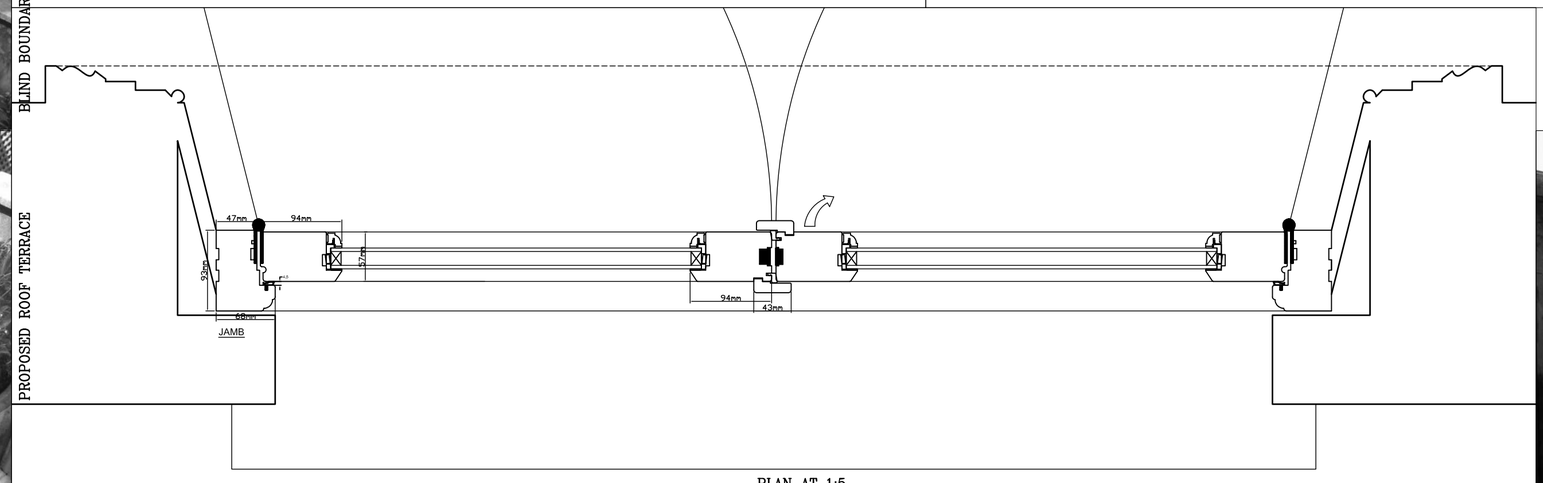


ELEVATION AT 1:20



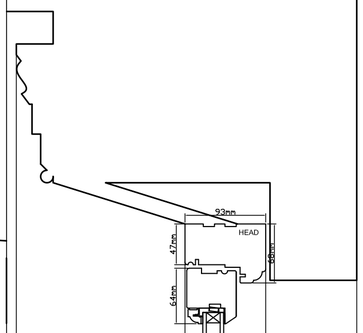
SECTION AT 1:20

PLAN AT 1:20

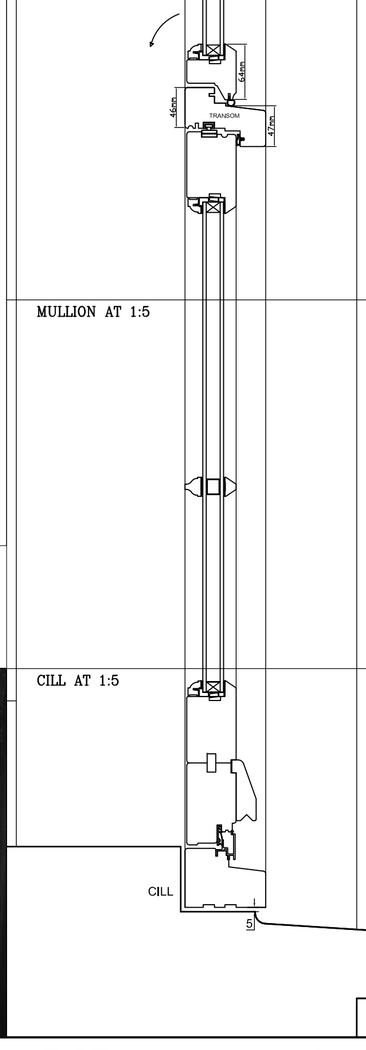


PLAN AT 1:5

HEAD AT 1:5



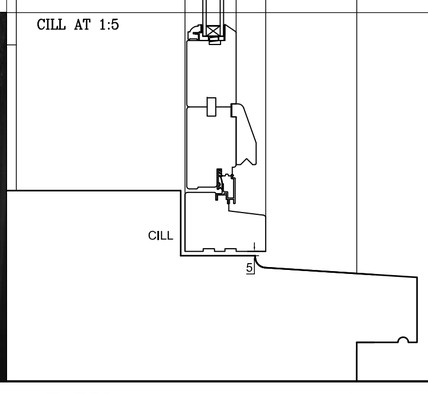
TRANSOM AT 1:5



MULLION AT 1:5

BOUNDARY WITH NO.31

CILL AT 1:5



Scale 1:5
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Scale 1:20
0 metres 0.2 0.4 0.6 0.8 1

Gregory Munson RIBA . architect

REVISIONS	Detail drawings see Schedule of Works French doors	30 Museum Street, WC1A 1LH for P Athill Esq.			
		SCALE	DATE	DWG.No	REV
		@A2	25.09.15	F2	-

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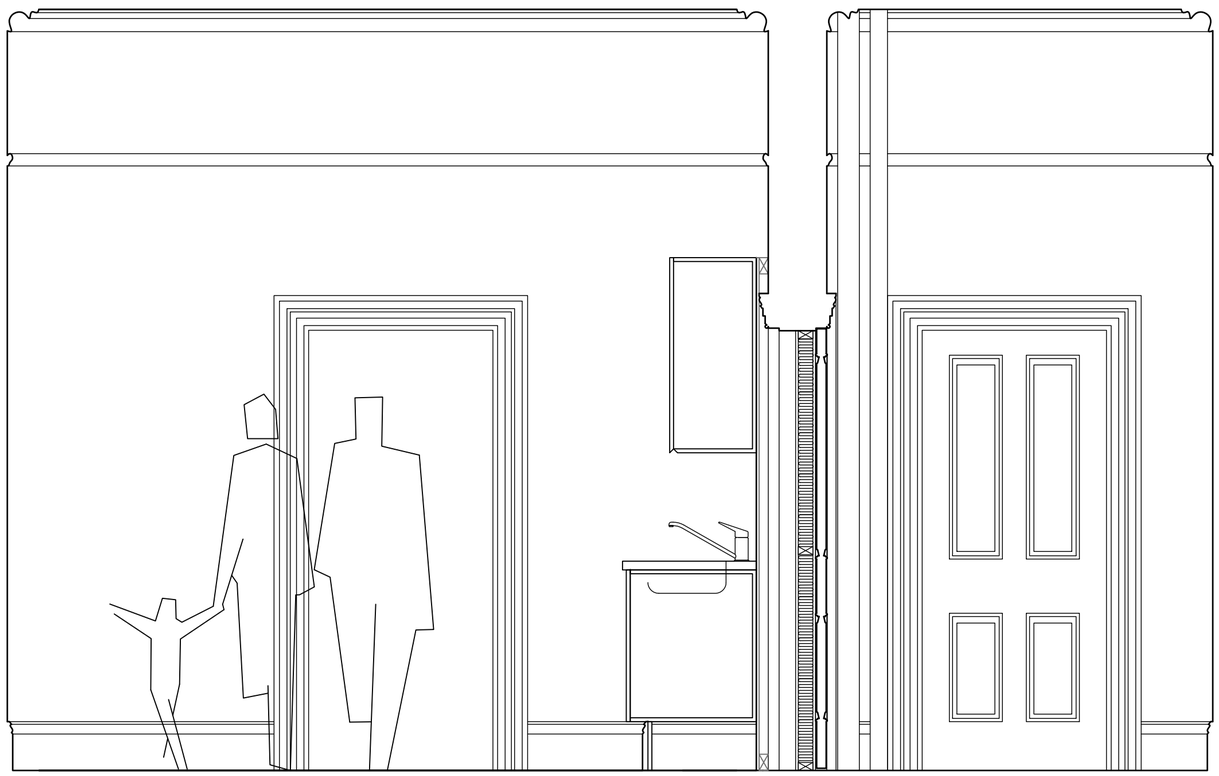

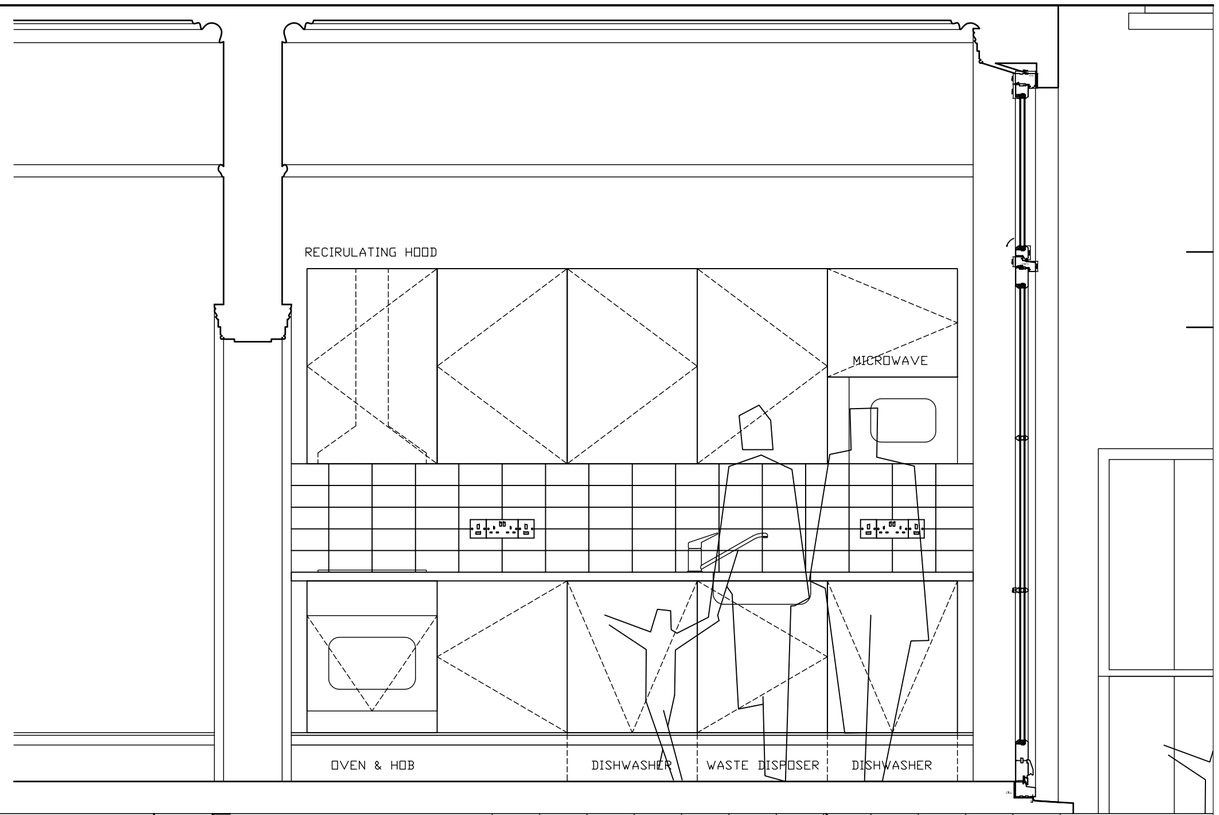

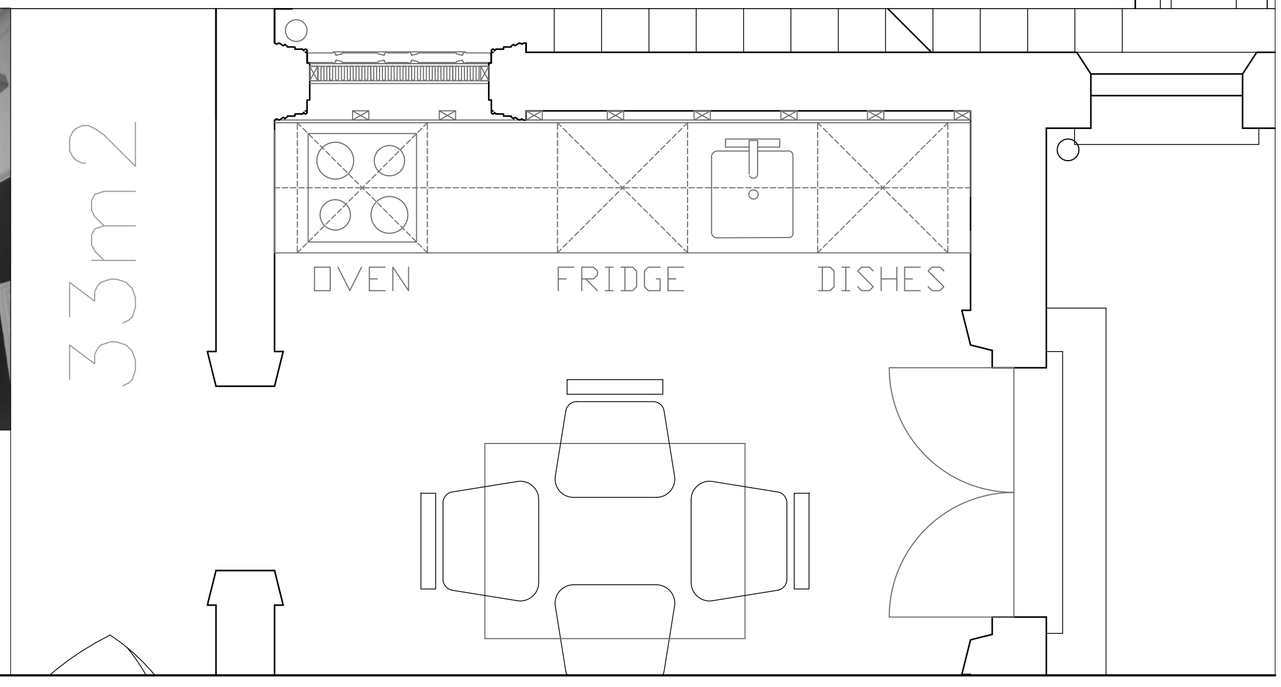

Gregory Munson RIBA . architect

Scale 1:20
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REVISIONS		30 Museum Street, WC1A 1LH for P Athill Esq.			
A 16.10.15	Detail drawings see Schedule of Works Kitchen	SCALE	DATE	DWG.No	REV
		1:20@A2	25.09.15	F5	A

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Gregory Munson RIBA . architect

REVISIONS A 16.10.15	Detail drawings see Schedule of Works Bin & cycle store	30 Museum Street, WC1A 1LH for P Athill Esq.			
		SCALE 1:20@A3	DATE 25.09.15	DWG.No F5	REV A

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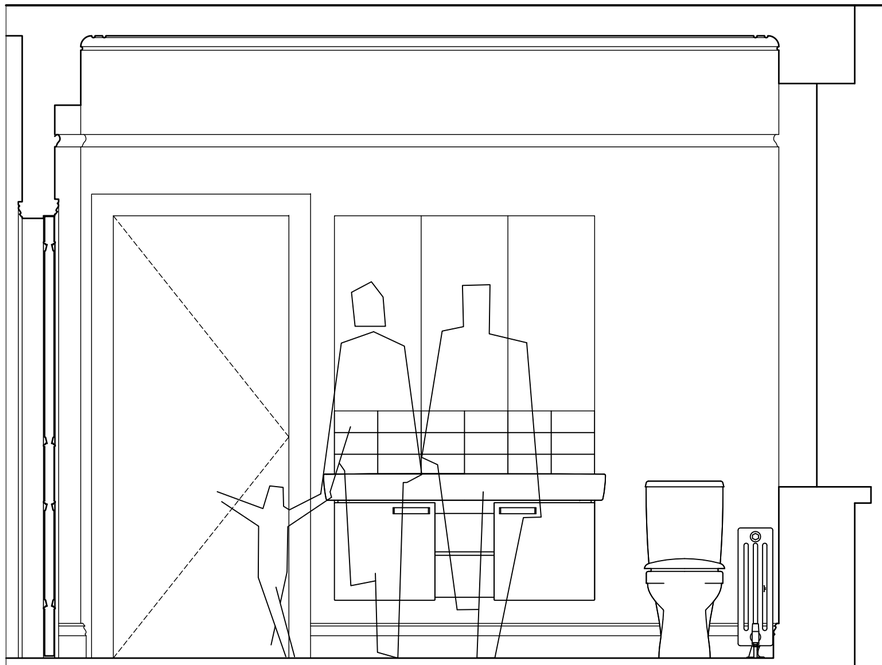

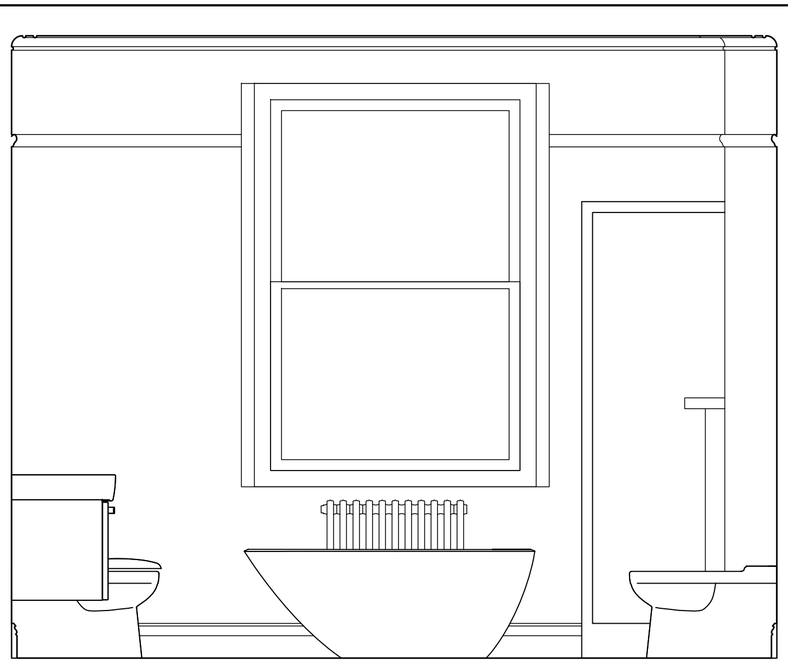

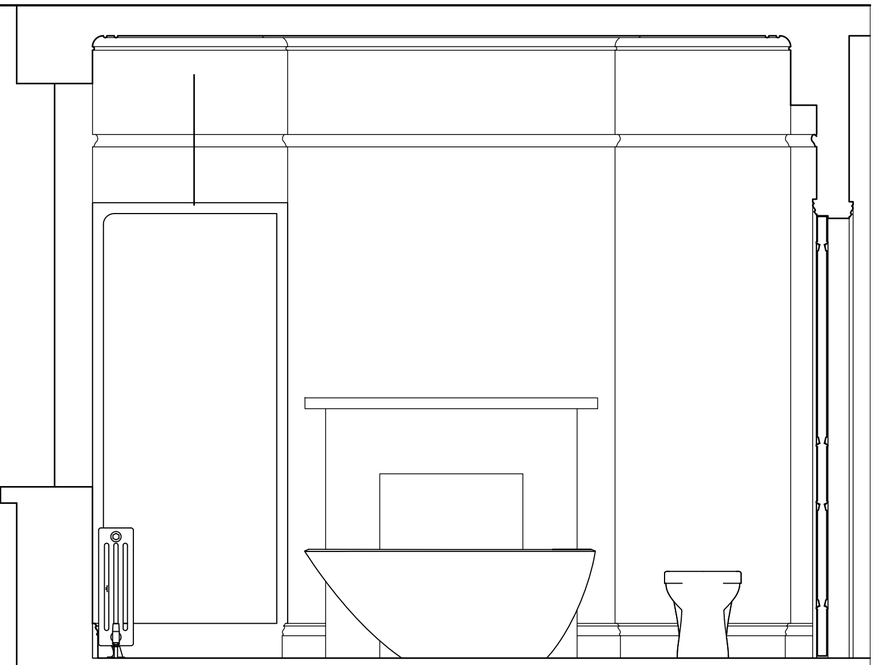

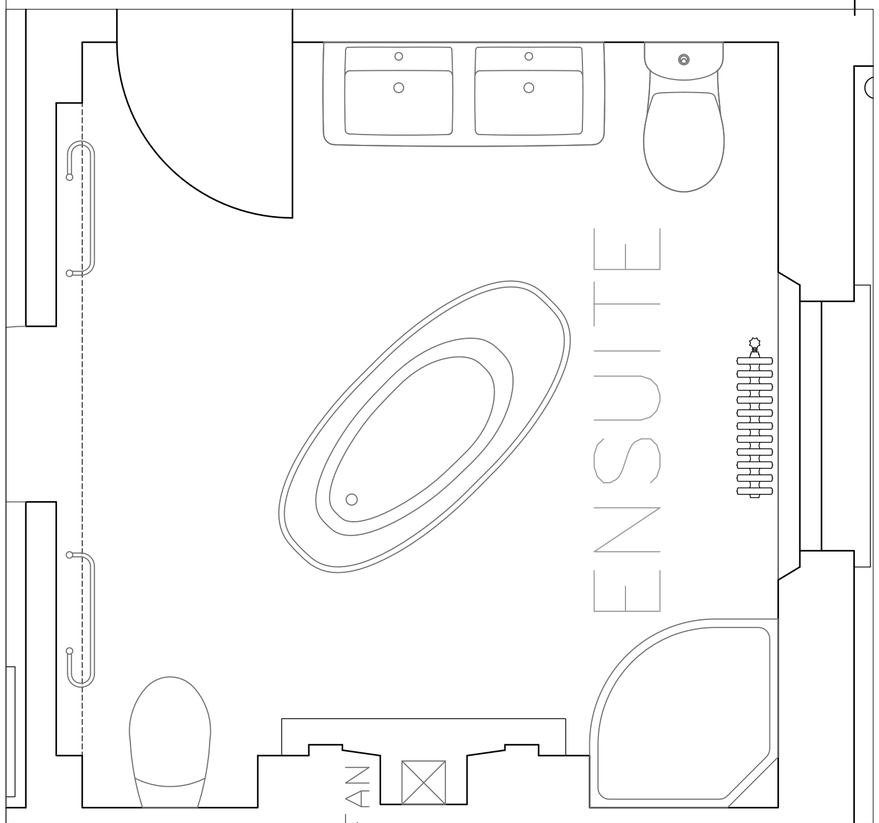

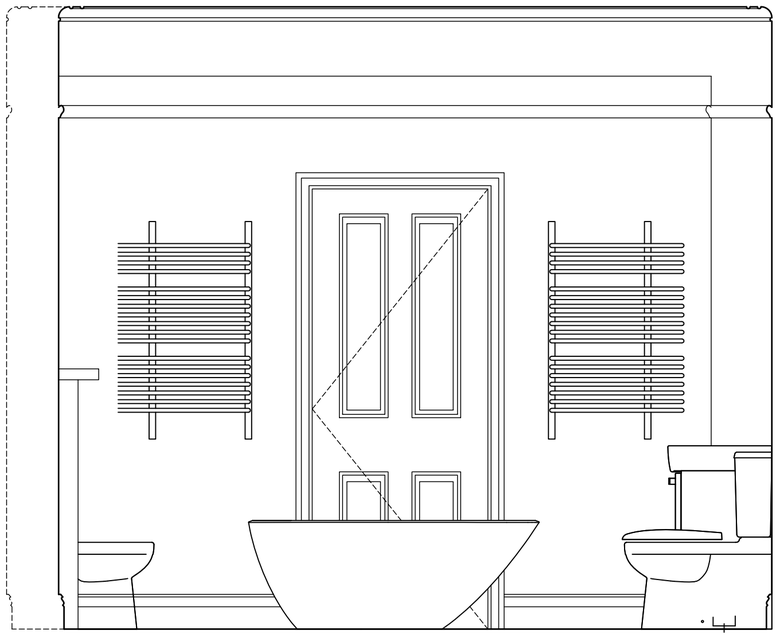

Scale 1:20
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Gregory Munson RIBA . architect

REVISIONS	Detail drawings see Schedule of Works Ensuite bathroom	30 Museum Street, WC1A 1LH for P Athill Esq.			
A 16.10.15		SCALE	DATE	DWG.No	REV
		1:20@A2	25.09.15	S1	A

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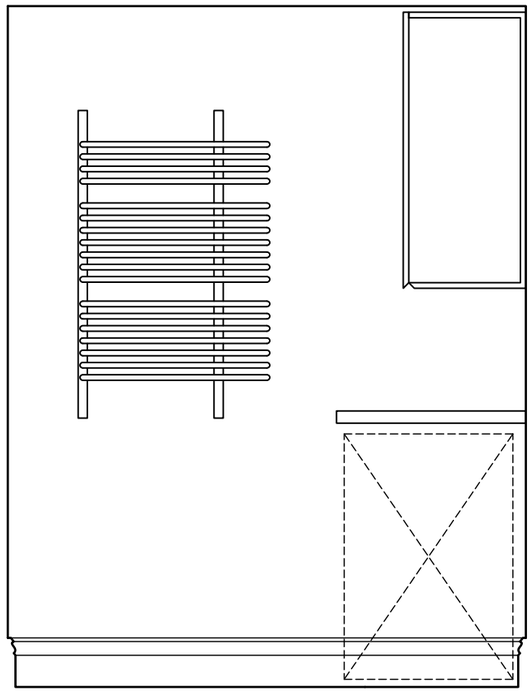

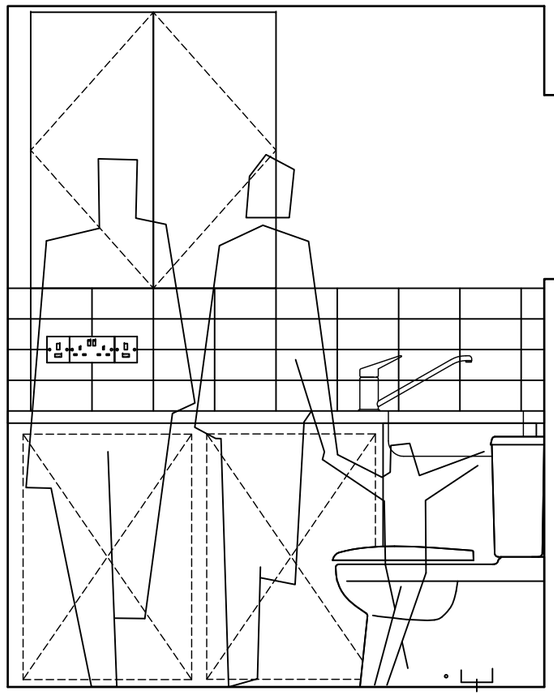

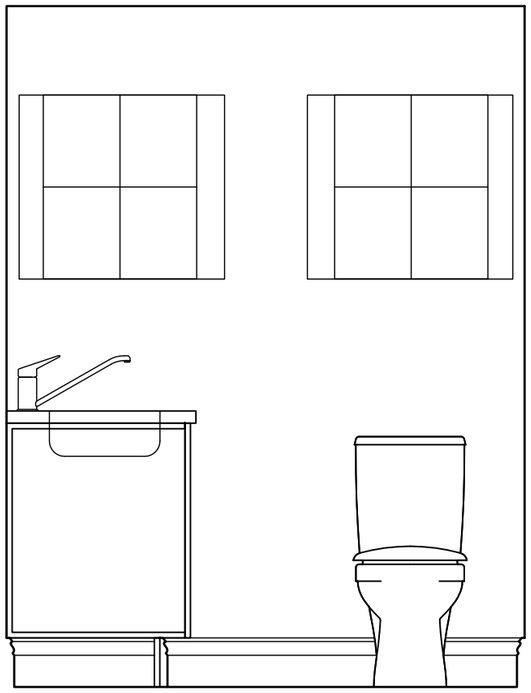

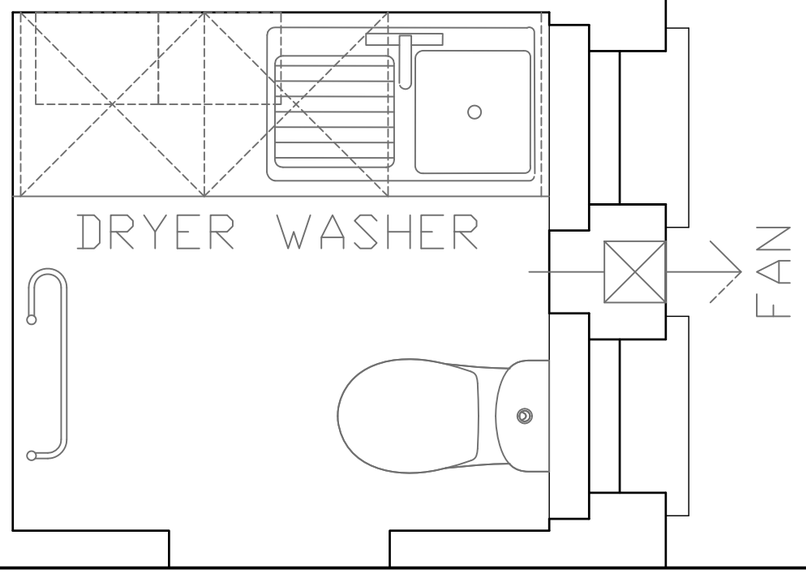

Gregory Munson RIBA . architect

Scale 1:20
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REVISIONS
A 16.10.15

Detail drawings
see Schedule of Works
Utility

30 Museum Street, WC1A 1LH
for P Athill Esq.

SCALE	DATE	DWG.No	REV
1:20@A3	25.09.15	S4	A

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REDUNDANT SERVICES REMOVED

S5 STAIRCASE PARTITION REMOVED TO REVEAL ORIGINAL HANDRAIL AND BALUSTRADE

Gregory Munson RIBA . architect

REVISIONS	Detail drawings see Schedule of Works Staircase restoration	30 Museum Street, WC1A 1LH for P Athill Esq.			
A 16.10.15		SCALE	DATE	DWG.No	REV
		1:20@A3	25.09.15	S5	A

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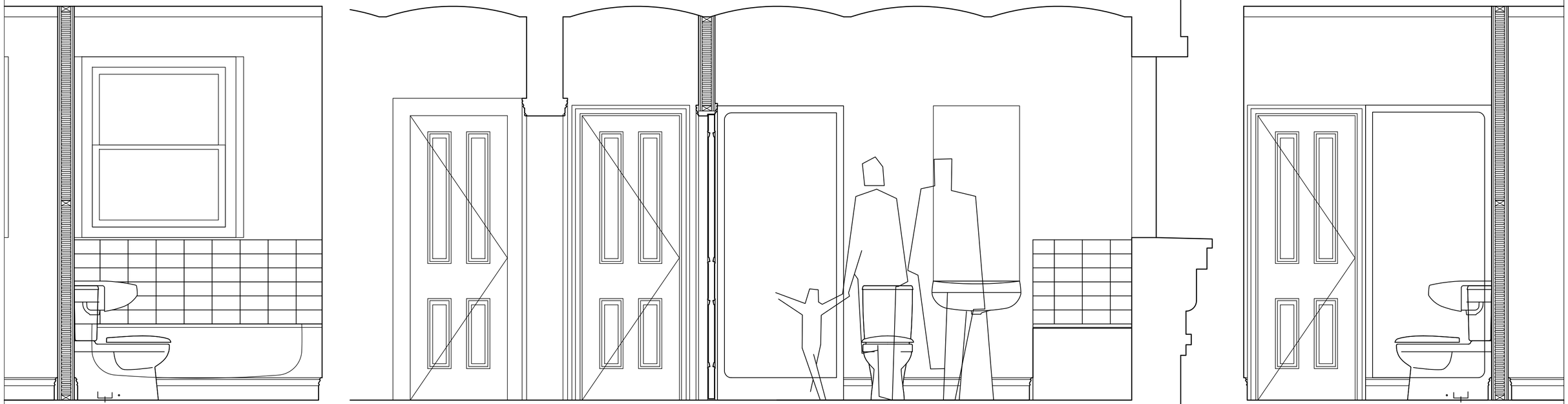

Gregory Munson RIBA . architect

Scale 1:20
0 metres 0.2 0.4 0.6 0.8 1

REVISIONS		30 Museum Street, WC1A 1LH for P Athill Esq.			
A 16.10.15	Detail drawings see Schedule of Works Family bathroom	SCALE	DATE	DWG.No	REV
		1:20@A2	25.09.15	T1,T2,T3	A

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Building Solutions

Dow Building Solutions

Insulating lightweight inverted roofs with STYROFOAM Solutions

WORLDWIDE PARTNER

Design considerations

Introduction

Lightweight inverted roofs are suitable for use with a wide range of waterproofing materials in both new and existing buildings where limited roof top access is expected (i.e. maintenance traffic only).

The system is not suitable for use on heavily trafficked areas, such as balconies and terraces, nor should it be used with loose-laid membranes.

STYROFOAM-A and ROOFMATE LG-A

STYROFOAM™-A products use carbon dioxide as the main blowing agent - the Ozone Depletion Potential (ODP) is zero and the Global Warming Potential (GWP) is less than five.

ROOFMATE LG-A

The STYROFOAM-A Solution for insulating lightweight inverted roofs is ROOFMATE™ LG-A: it consists of STYROFOAM-A insulation boards with a factory applied top surface of modified mortar 10mm thick. The surface is mottled grey, resembling a cement:sand render with a wood float finish.

U-value	0.35	0.28
ROOFMATE LG-A (includes 10mm thick mortar topping)	130	190

Table 1: Required ROOFMATE LG-A thickness (mm) to meet U-values W/m²K

Roof build-up:
- ROOFMATE LG-A
- High performance felt: 9mm
- Sand cement screed 65mm
- Concrete deck 200mm

Rainwater cooling density calculated to BS EN ISO 6946 Annex D4, p=3mm/day

™ Trademark of The Dow Chemical Company ("DOW") or an affiliated company

ROOFMATE LG-A is designed to give the maximum benefit in lightweight inverted roofs. The boards are:
- tongued and grooved on long edges so they lock together for continuous insulation, eliminating thermal bridging
- light enough for one man to handle
- capable of being cut and shaped on site with a diamond-tipped circular saw.

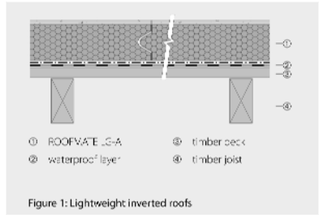


Figure 1: Lightweight inverted roofs

Design considerations

For the full physical properties and performance characteristics of ROOFMATE LG-A boards see separate guide: STYROFOAM performance, product overview and references.

Wind uplift

ROOFMATE LG-A is also designed to minimise the effect of wind uplift. Joints between boards interlock, but are not airtight, meaning differences in pressure between top and bottom surfaces, predicted by wind blowing across the roof, rapidly equalise, reducing uplift forces on the insulation.

Refer to BRE Digest 295.

When assessing the effect of wind uplift upon ROOFMATE LG-A boards on a lightweight inverted roof it is important to consider:
- **predicted uplift forces:** predictions of wind uplift should be based upon the calculation methods given in BS 6399: Part 2
- **means of attachment of the waterproof layer:** waterproof layers on lightweight inverted roofs may be partially or fully adhered or mechanically attached: the weight of ROOFMATE LG-A boards should be ignored when assessing the stability of the waterproof layer under windload
- **laying pattern of boards:** ROOFMATE LG-A boards must be laid in brick bond pattern with their tongued and grooved edges fully interlocked
- **parapets and roof kerbs:** at roof perimeters ROOFMATE LG-A boards must be protected from wind blowing directly underneath the boards: kerbs should extend at least 50mm above the top of the boards. On roofs with low wind exposure ROOFMATE LG-A boards may be laid to drain directly into an edge gutter. Protect the board edge with a cover flashing **(Figure 2)**
- **edge restraint:** the mortar topping to the ROOFMATE LG-A boards provides some resistance to uplift, but edge restraint is usually required at the roof perimeter and around large penetrations such as plant rooms. Edge restraint can be achieved by laying a single row of 50mm thick paving slabs or screeding the boards to the substrate with a suitable adhesive. If exceptionally high uplift forces are involved further rows of paving or possibly mechanical restraint will be required.

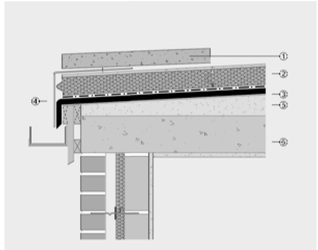


Figure 2: Lightweight inverted roof- detail at eaves

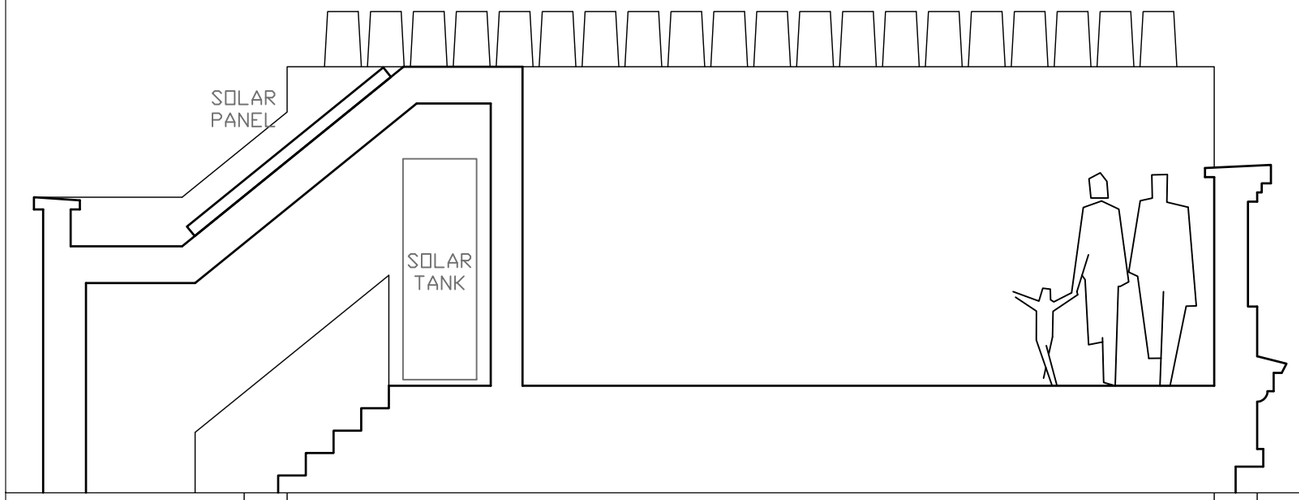
A ROOFMATE LG-A project assessment form is available at www.styrofoam.co.uk or by emailing fidtech@dow.com. The specifier should send a completed copy of the form to Dow Building Solutions for each project designed with ROOFMATE LG-A. On the basis of project information supplied, Dow Building Solutions will calculate the amount and location of restraint required. For assistance in completing the form please contact Dow Building Solutions at fidtech@dow.com.

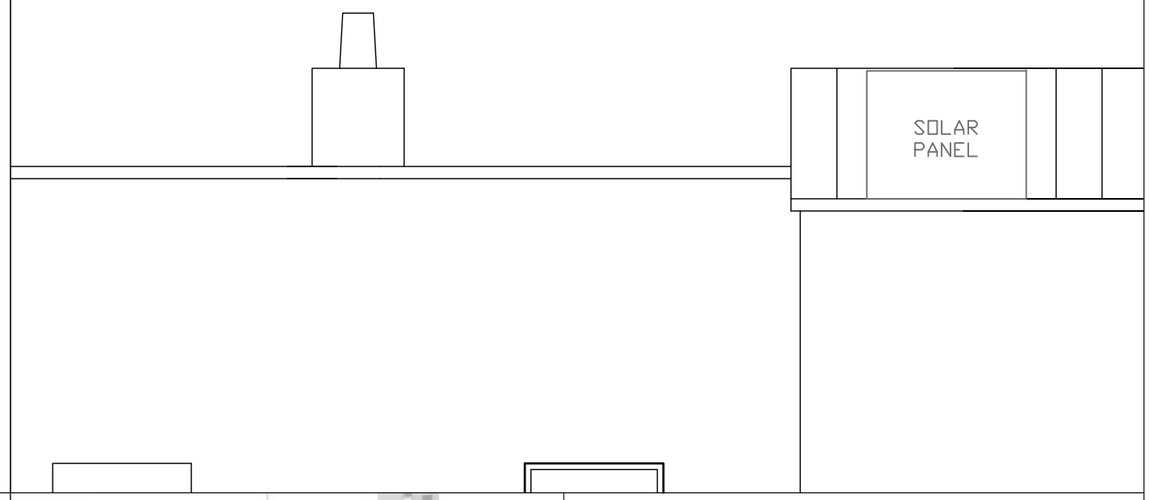
Gregory Munson RIBA . architect

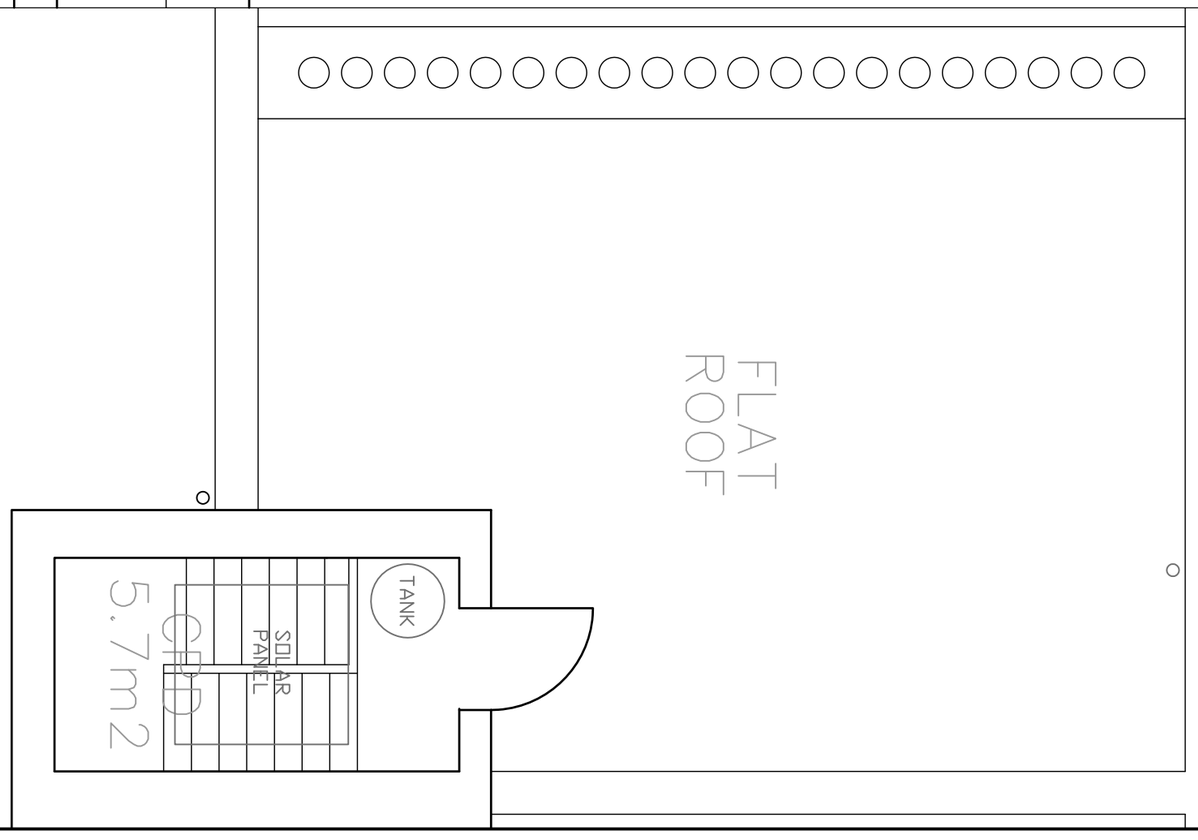
Scale 1:20
0 metres 0.2 0.4 0.6 0.8 1

REVISIONS	Detail drawings see Schedule of Works Roof insulation	30 Museum Street, WC1A 1LH for P Athill Esq.			
		SCALE	DATE	DWG.No	REV
		1:20@A3	25.09.15	R1	-

34 RAGLAN STREET, LONDON, NW5 3DA. TEL 07887 545004 EMAIL gregorymunson@ymail.com







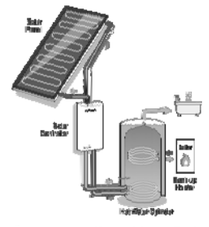
About Solar Water Heating

Clearline®

A Viridian Solar water heating system saves you money and helps the environment by converting the light hitting a solar panel into heat in your hot water cylinder. It cannot completely replace your heating system, but can significantly reduce the energy it uses each year.

The solar panel absorbs light and traps the heat generated behind its cover glass. A liquid is pumped through the solar panel which carries the collected heat to your hot water cylinder. An electronic controller decides when to turn on the pump based on the temperature difference between the solar panel and the cylinder.

The hot water cylinder is arranged so that the back up heater (boiler or immersion) can only heat the top section, whereas the solar panel can heat the whole cylinder. On days where there is not enough light, the solar panel will warm the cylinder, and the back up heater will raise the temperature to the setting on the cylinder thermostat. On days with more light, the solar panel can heat up the whole cylinder.



Clearview arrangement for a single house, with solar panel controller and twin coil hot water cylinder.

Depending on how much hot water you use, the solar panel should provide 50-60% of your hot water averaged over the year.

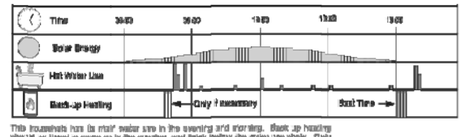
Getting the Most out of Your Solar Heating System

1. Leave it on

The electricity used by the system each year is a tiny fraction of the hot water that it provides.

2. Use the Timer to Control Back-up Heating (Boiler or Immersion)

You will achieve the biggest savings if you use the timer programme to control your back up heating to finish heating your water just before the main daily use starts. This gives the solar panel more cold water in the cylinder to heat the following day. Avoid having your back up heating running after you have started your main hot water use.



This household has its main water use in the evening and morning. Back up heating should be timed to come on in the evening, and finish before the water use starts. Only run back up heating before water use the following morning if strictly necessary.

viridian solar

Gregory Munson RIBA . architect

Scale 1:50
0 metres 0.5 1 1.5 2 2.5

REVISIONS
A 16.10.15

Detail drawings
see Schedule of Works
Solar installation

30 Museum Street, WC1A 1LH
for P Athill Esq.

SCALE	DATE	DWG.No	REV
1:50@A3	25.09.15	R2	A

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