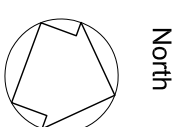
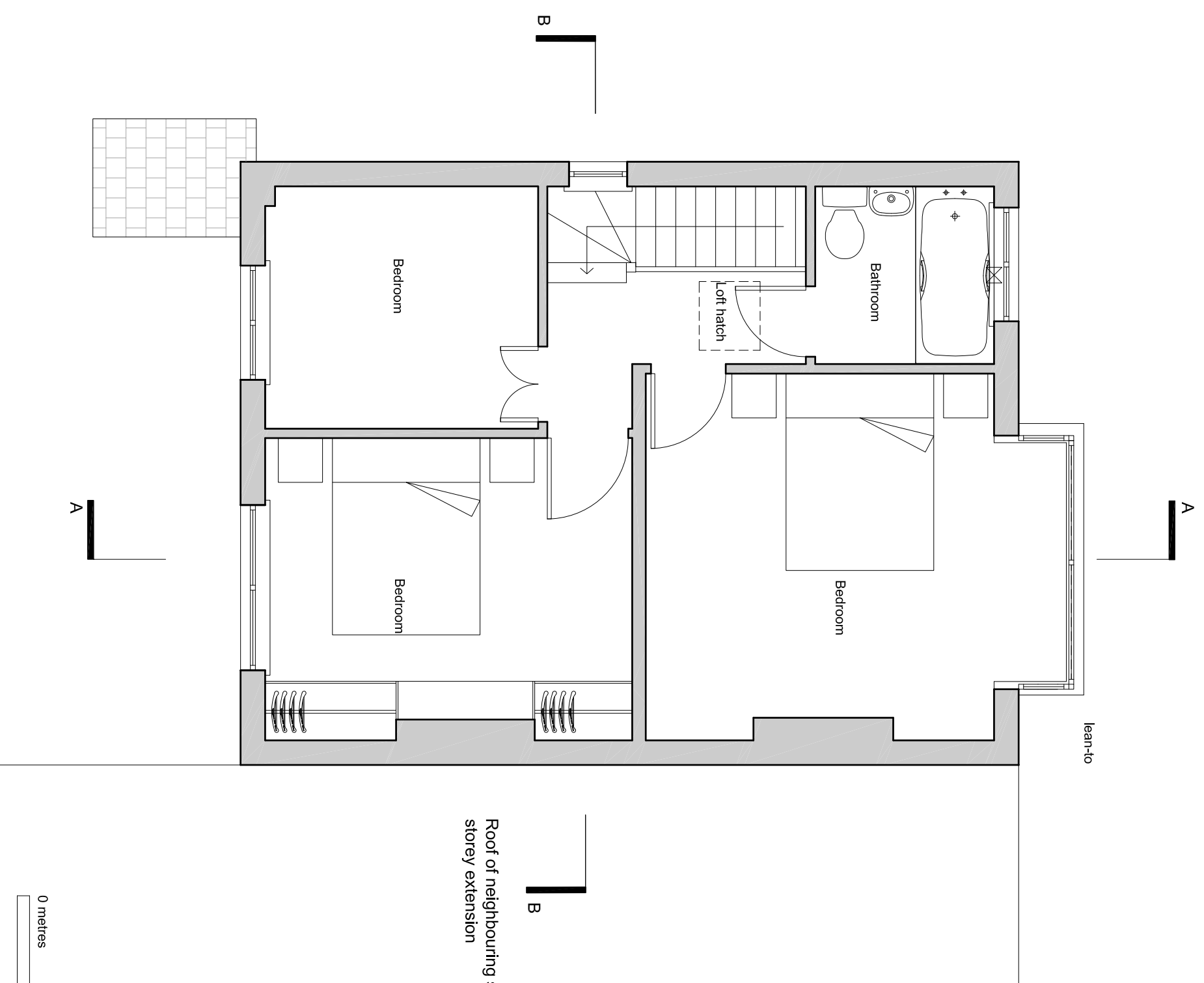


Retrofit for the Future Final Phase Report  
ZA522P  
Appendix 1  
Architectural Drawings



North



Roof of neighbouring single storey extension



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- 1 Use figured dimensions only
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- 6 All work and materials to be in accordance with current applicable statutory legislation and to comply with all relevant codes of practice and British and European standards

Rev	Description	Date	By	Chk
A	Revised where cluded	DD.MM.YY	XX	XX

**Project:** Retrofit for the future  
78 Grove Road

**Subject:** First floor Existing Plan

**Scale:** 1:50 @ A3

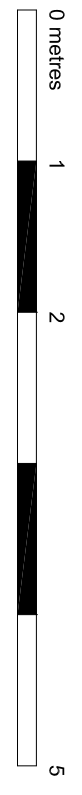
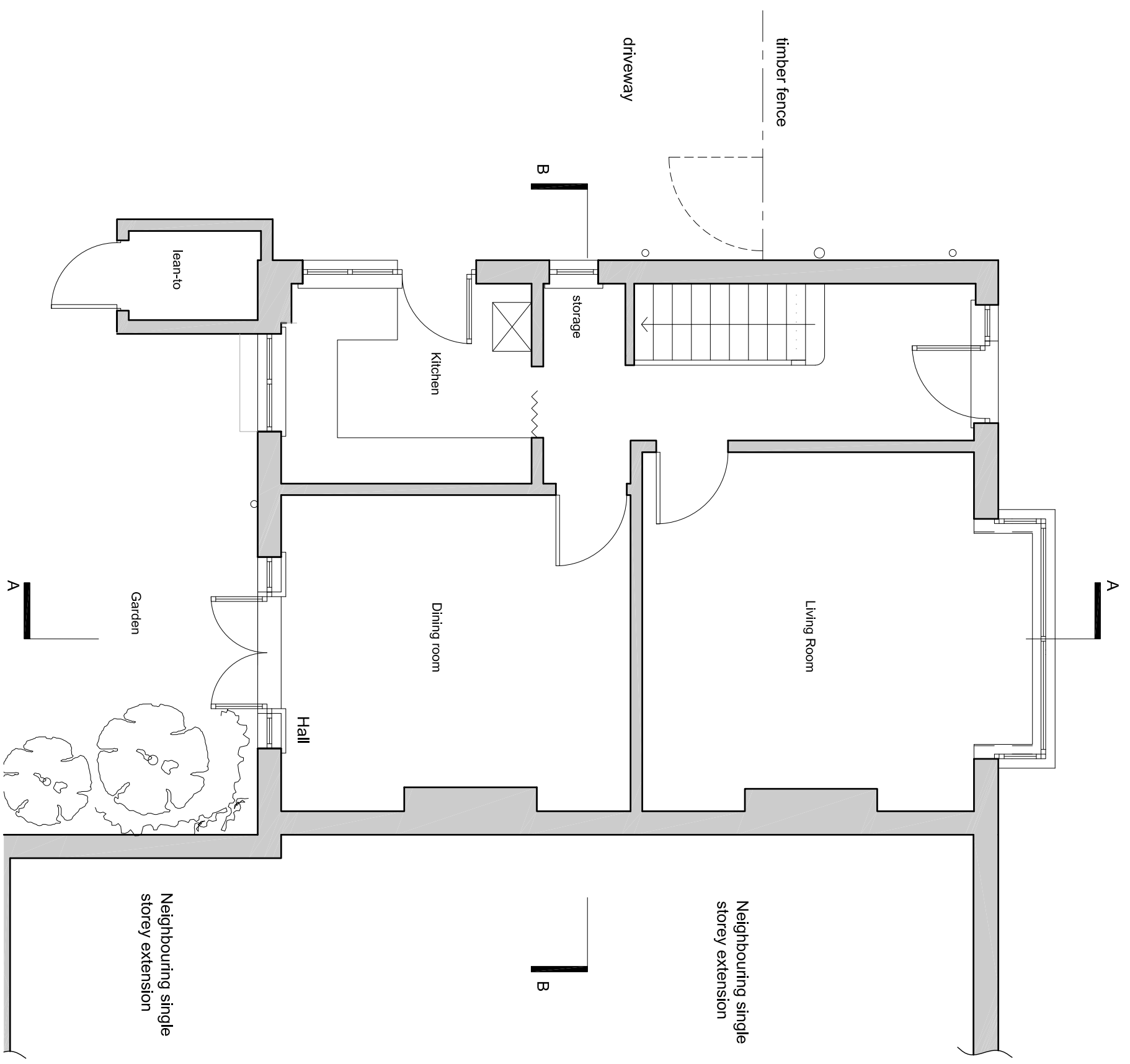
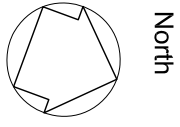
**Date:** 30.09.09

**Project** | **Drawing** | **Rev**

**371.B3.G20.P01 A**

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Rev	Description	Date	By	Chk
A	Revised where cluded	DD.MM.YY	XX	XX

**Project:** Retrofit for the future  
78 Grove Road

**Project:** Drawing

**Subject:** Ground floor Existing Plan

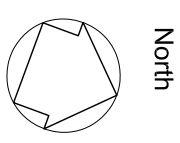
73 Poets Road, London, N5 2SH  
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**Scale:** 1:50 @ A3

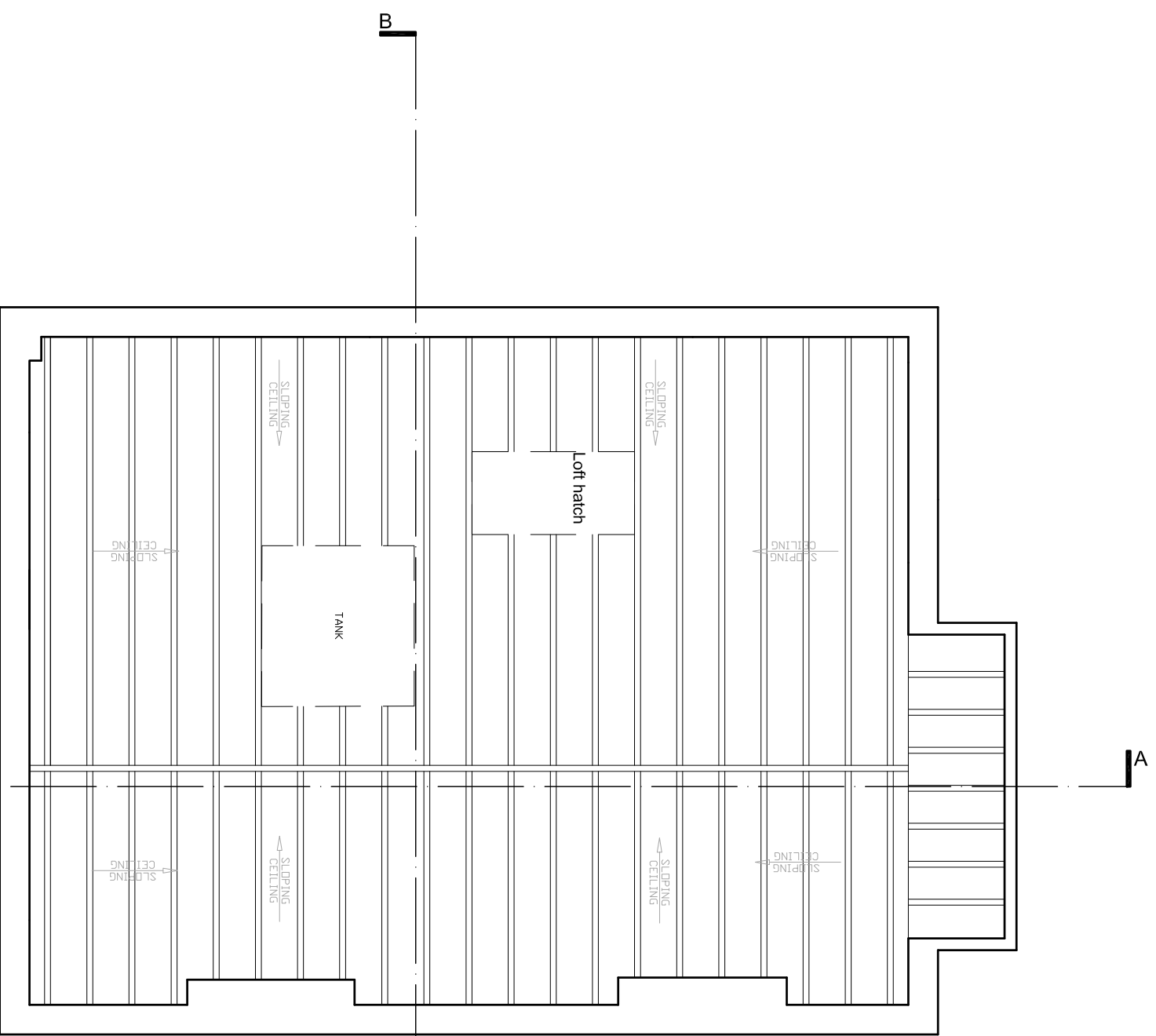
Project Drawing Rev

**Date:** 30.09.09

**371 .B3.G20.P00 A**



North



Roof of neighbouring single storey extension



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Rev	Description	Date	By	Chk
A	First Issue	22.09.10	SLH	DC

- 1 Use figured dimensions only
- 2 Do not scale from this drawing
- 3 All dimensions to be checked on site and the Architect to be informed of any discrepancies before construction commences
- 4 All references to drawings refer to current revision of that drawing
- 5 Structural and services information shown is indicative only. Refer to consultants' drawings for details and setting out
- 6 All work and materials to be in accordance with current applicable statutory legislation and to comply with all relevant codes of practice and British and European standards

**Project:** Retrofit for the future  
78 Grove Road

**Subject:** Second Floor Plan  
Existing Plan

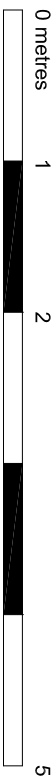
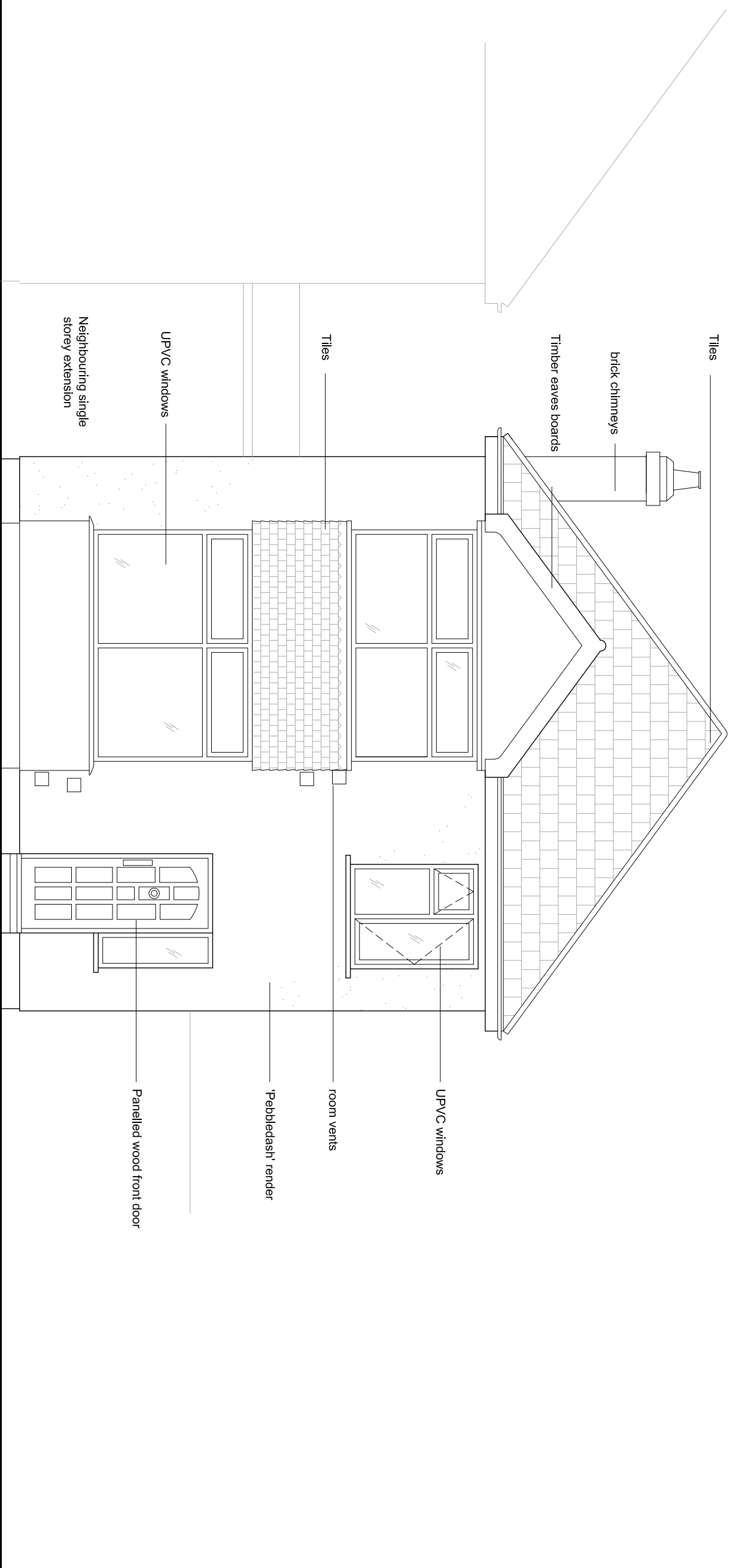
**Scale:** 1:50 @ A3

**Date:** 22.09.10

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Project Drawing Rev  
**371 .B3.G20.P02 A**



- 1 Use figured dimensions only
- 2 Do not scale from this drawing
- 3 All dimensions to be checked on site and the Architect to be informed of any discrepancies before construction commences
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Rev	Description	Date	By	Chk
A	Revised where cluded	DD.MM.YY	XX	XX

**Project:** Retrofit for the future  
78 Grove Road

**Subject:** North Elevation  
As Existing

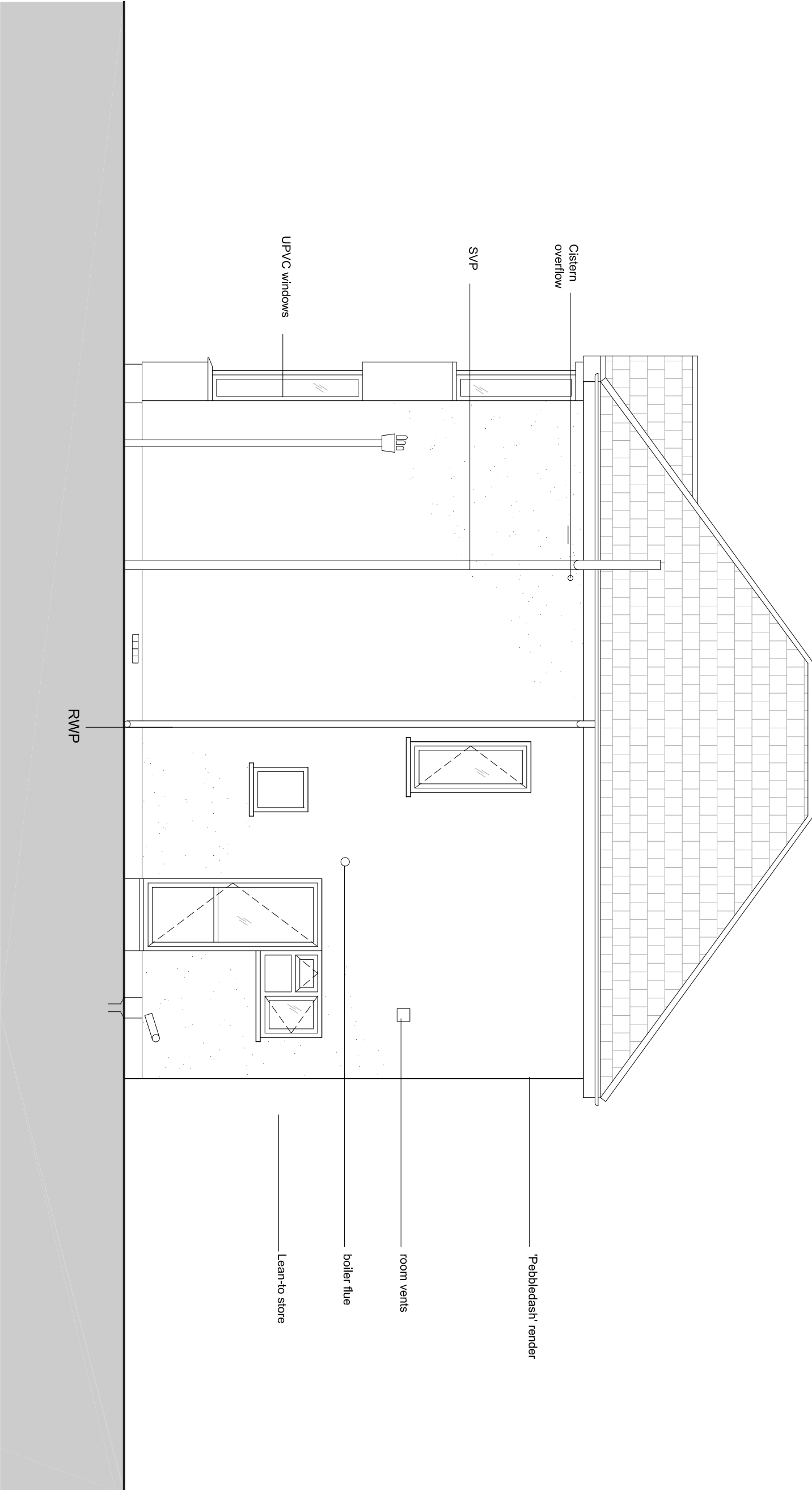
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**Date:** 30.09.09

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Project Drawing Rev  
**371 .B3.G20.E00 A**



Rev	Description	Date	By	Chk
A	Revised where clouded	DD.MM.YY	XX	XX

- 1 Use figured dimensions only
- 2 Do not scale from this drawing
- 3 All dimensions to be checked on site and the Architect to be informed of any discrepancies before construction commences
- 4 All references to drawings refer to current revision of that drawing
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- 6 All work and materials to be in accordance with current applicable statutory legislation and to comply with all relevant codes of practice and British and European standards

**Project:** Retrofit for the future

78 Grove Road

**Subject:** West Elevation

As Existing

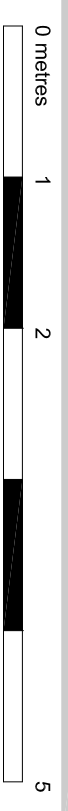
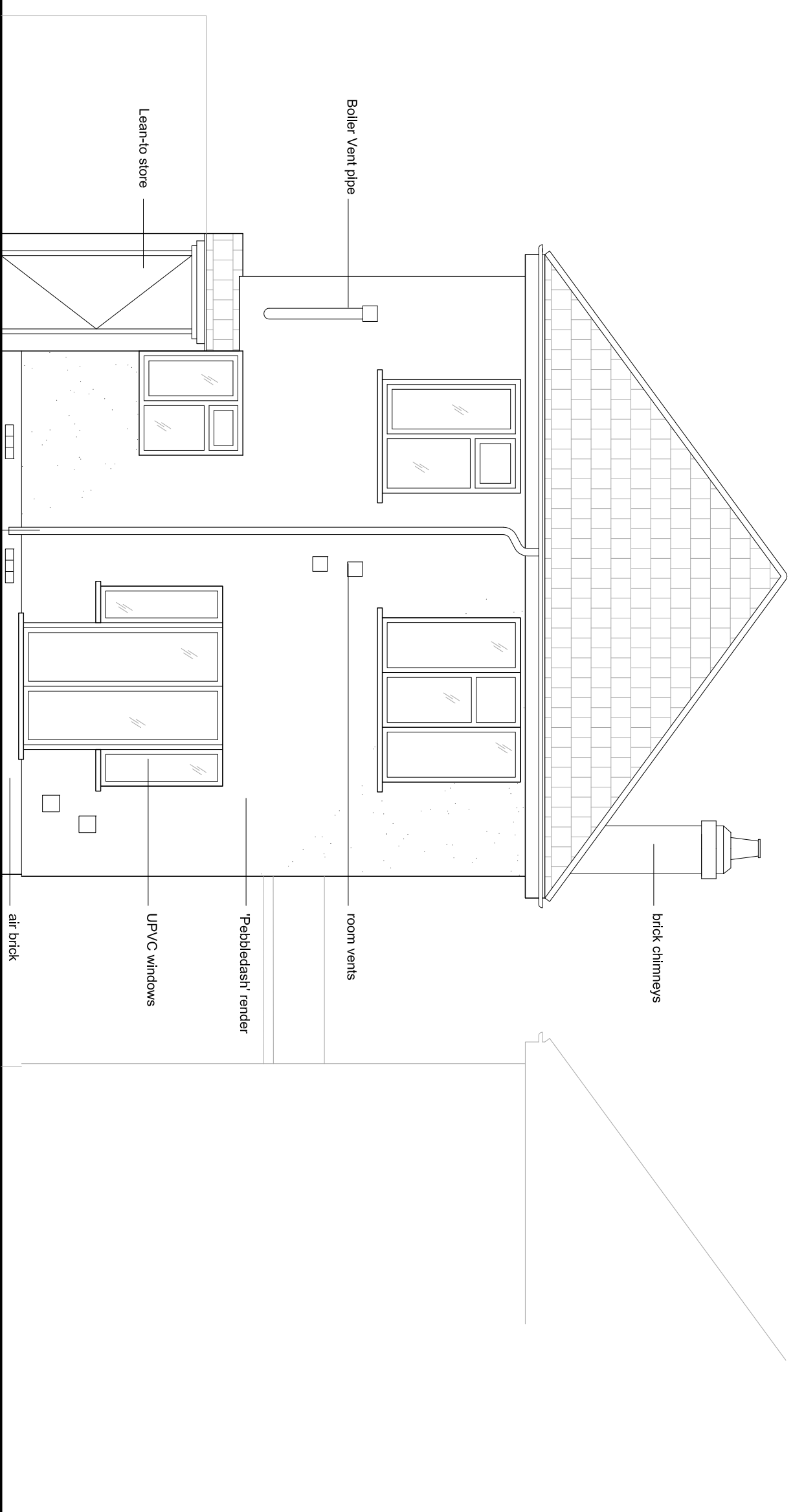
**Scale:** 1:50 @ A3

**Date:** 30.09.09

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Project Drawing Rev  
**371.B3.G20.E01 A**



- 1 Use figured dimensions only
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Rev	Description	Date	By	CHK
A	Revised where cluded	DD.MM.YY	XX	XX

**Project:** Retrofit for the future  
78 Grove Road

**Subject:** South Elevation  
As Existing

**Scale:** 1:50 @ A3

**Date:** 30.09.09

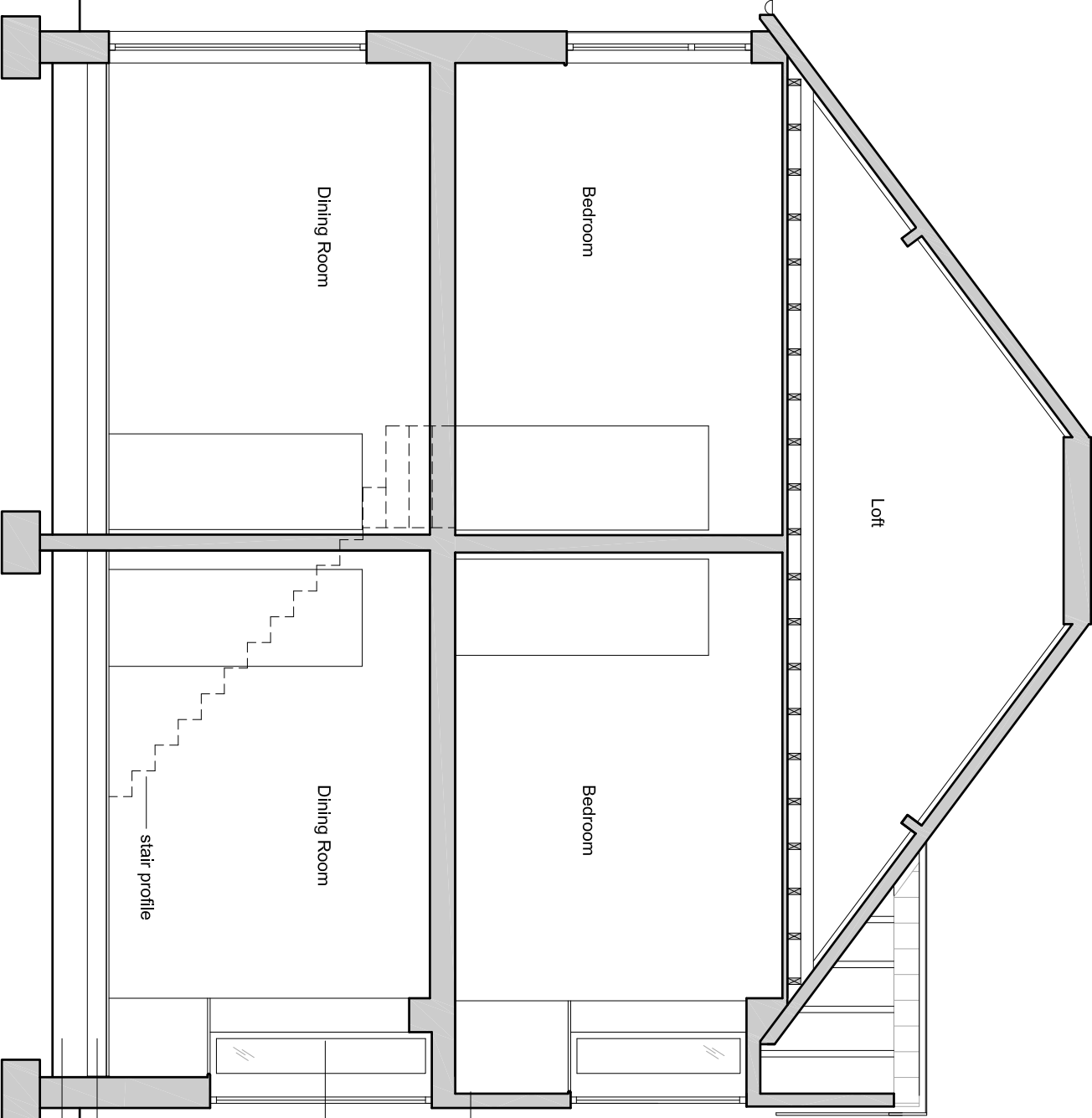
**Project:** Drawing

**Rev**

**371.B3.G20.E02 A**

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Rev	Description	Date	By	Chk
A	Revised where cluded	DD.MM.YY	XX	XX

- 1 Use figured dimensions only
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- 3 All dimensions to be checked on site and the Architect to be informed of any discrepancies before construction commences
- 4 All references to drawings refer to current revision of that drawing
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**Project:** Retrofit for the future  
78 Grove Road

**Subject:** Section AA  
As Existing

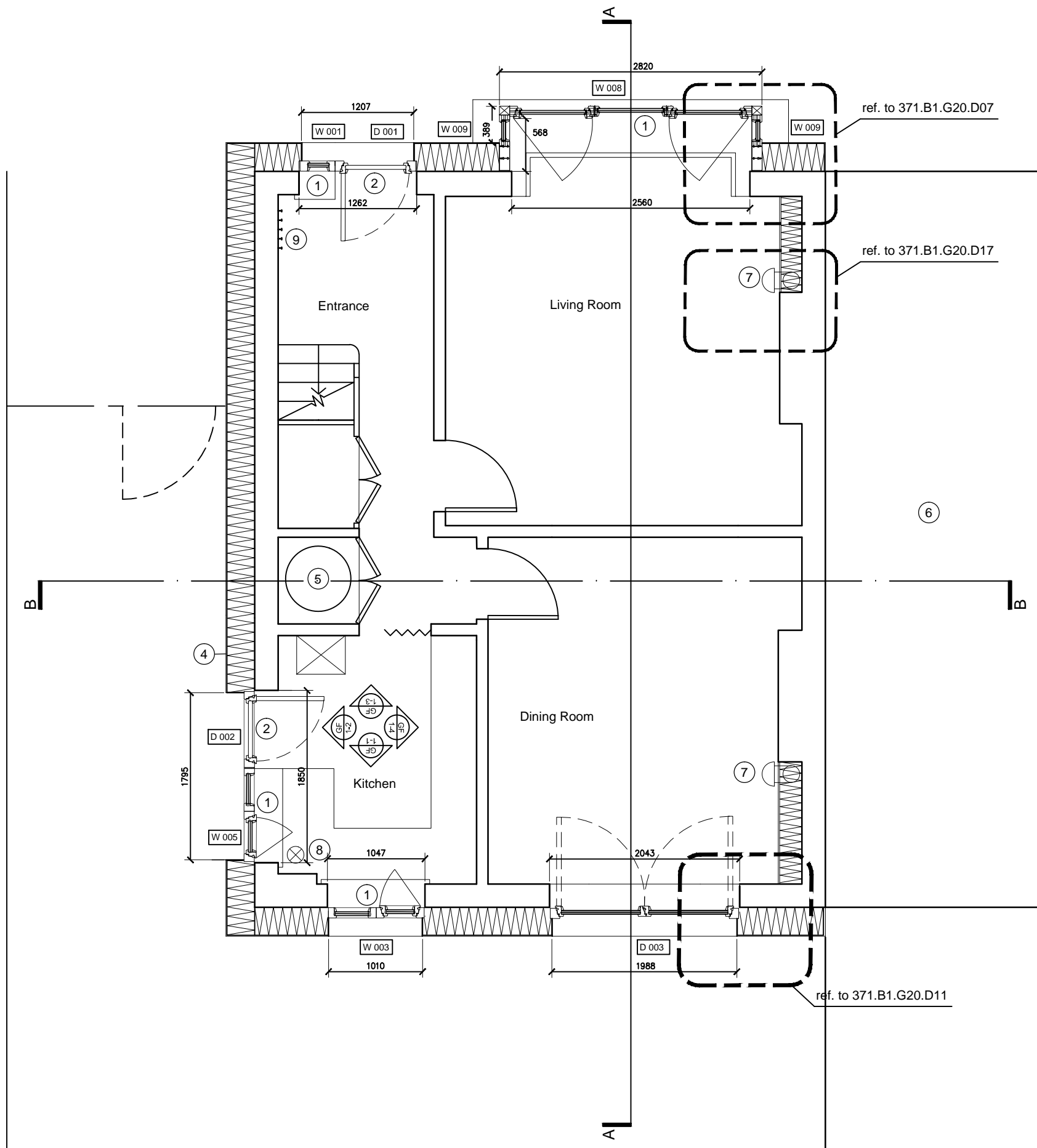
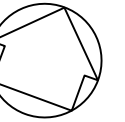
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**Date:** 30.09.09

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Project Drawing Rev  
**371.B3.G20.S01 A**





- ① New Timber triple glazed Passivhaus windows internally / externally insulated tbc
- ② New Timber triple glazed Passivhaus door internally / externally insulated
- ③ Timber triple glazed Passivhaus doors
- ④ Insulated render
- ⑤ Hot water tank
- ⑥ Neighbouring single storey extension
- ⑦ Supply air
- ⑧ Extract air

- 1 Use figured dimensions only
- 2 Do not scale from this drawing
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- 4 All references to drawings refer to current revision of that drawing
- 5 Structural and services information shown is indicative only. Refer to consultants' drawings for details and setting out
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Rev	Description	Date	By	Chk
A	First issue	28.05.10	SLH	DG

# G20 GENERAL ARRANGEMENT

**Project:** 78 Grove Road  
Hounslow London

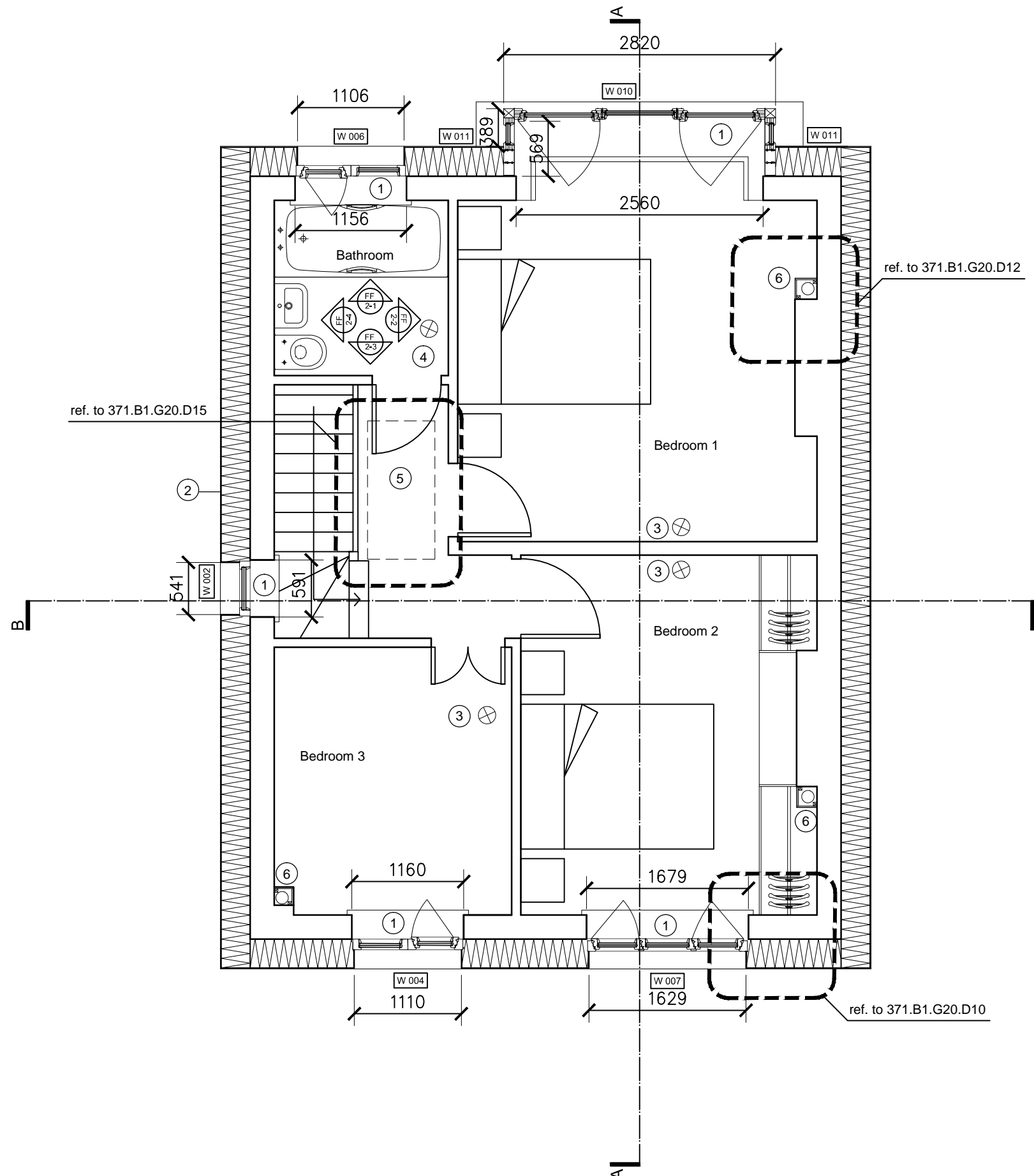
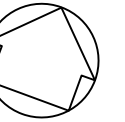
**Subject:** Ground Floor Plan  
PROPOSED

**Scale:** 1:50 @ A3

**Date:** 28.05.10

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- ① New Timber triple glazed Passivhaus windows internally / externally insulated tbc
- ② Insulated render
- ③ Supply air
- ④ Extract air
- ⑤ New enlarged airtight loft hatch
- ⑥ Duct work in New boxing

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- 1 Use figured dimensions only
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Rev	Description	Date	By	Chk
A	First issue	28.05.10	SLH	DG

## G20 GENERAL ARRANGEMENT

**Project:** 78 Grove Road  
Hounslow London

**Subject:** First Floor Plan  
PROPOSED

**Scale:** 1:50 @ A3

**Date:** 28.05.10

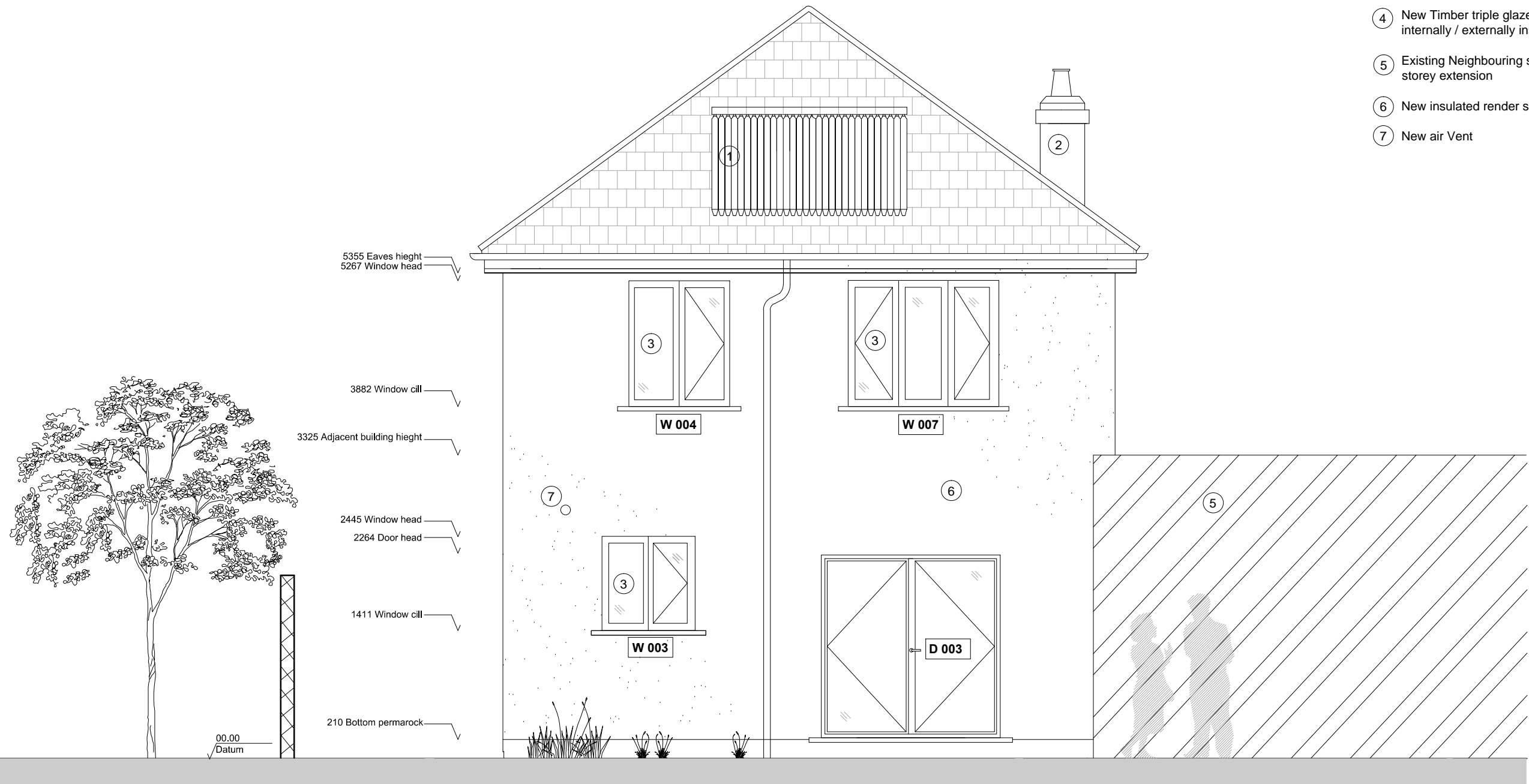
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---

Project | Drawing

# 0371.B1.G20.P01

- ① New Solar collector
- ② Existing Brick chimneys
- ③ New Timber triple glazed Passivhaus window internally / externally insulated
- ④ New Timber triple glazed Passivhaus door internally / externally insulated
- ⑤ Existing Neighbouring single storey extension
- ⑥ New insulated render system
- ⑦ New air Vent



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Rev	Description	Date	By	Chk
A	First issue	28.05.10	SLH	DG

1 Use figured dimensions only  
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## G20 GENERAL ARRANGEMENT

**Project:** 78 Grove Road  
Hounslow London  
  
**Subject:** South Elevation  
PROPOSED  
  
**Scale:** 1:50 @ A3  
  
**Date:** 28.05.10

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---

 Project | Drawing  
**0371.B1.G20.E02**

- ① Existing Tiles
- ② Brick chimneys
- ③ Timber eaves boards
- ④ New Timber triple glazed Passivhaus windows internally / externally insulated tbc
- ⑤ Neighbouring single storey extension
- ⑥ New insulated render system
- ⑦ New Timber triple glazed Passivhaus door internally / externally insulated



5355 Eaves height  
5265 Window head

3865 Window cill

2780 Window head

2318 Door head

1029 Door head

210 Bottom of Permarock

00.00 Datum

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Rev	Description	Date	By	Chk
1	Use figured dimensions only			
2	Do not scale from this drawing			
3	All dimensions to be checked on site and the Architect to be informed of any discrepancies before construction commences			
4	All references to drawings refer to current revision of that drawing			
5	Structural and services information shown is indicative only. Refer to consultants' drawings for details and setting out			
6	All work and materials to be in accordance with current applicable statutory legislation and to comply with all relevant codes of practice and British and European standards			
A	First issue	28.05.10	SLH	DC

## G20 GENERAL ARRANGEMENT

**Project:** 78 Grove Road  
Hounslow London

**Subject:** North Elevation  
PROPOSED

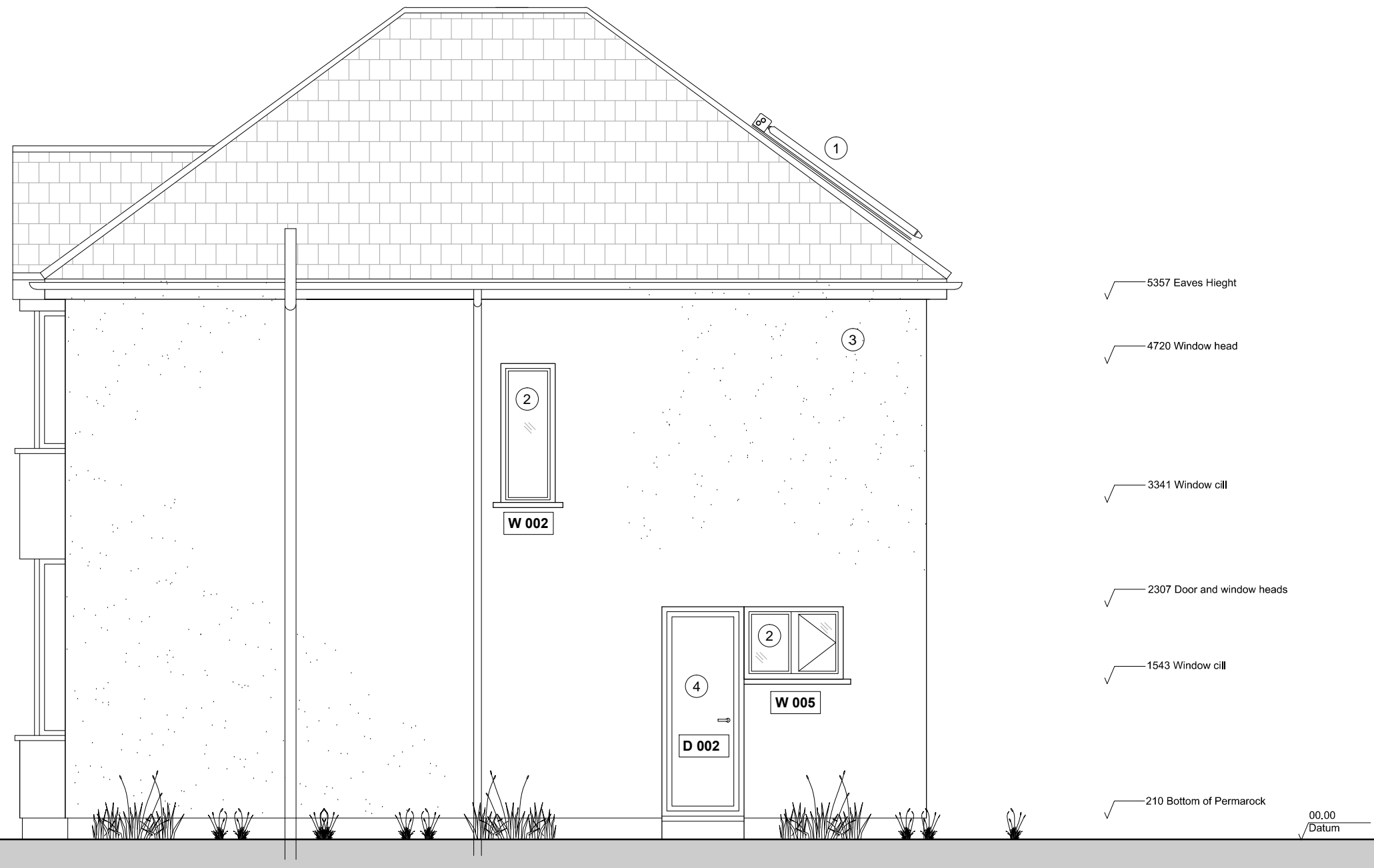
**Scale:** 1:50 @ A3

**Date:** 28.05.10

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Project	Drawing	Rev
<b>0371.B1.G20.E00</b>		<b>A</b>

- ① New Solar collector
- ② New Timber triple glazed Passivhaus windows internally / externally insulated
- ③ New Insulated render system
- ④ New Timber triple glazed timber Passivhaus door internally / externally insulated



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Rev	Description	Date	By	Chk
A	First issue	28.05.10	SLH	DC

## G20 GENERAL ARRANGEMENT

**Project:** 78 Grove Road  
Hounslow London

**Subject:** West Elevation  
PROPOSED

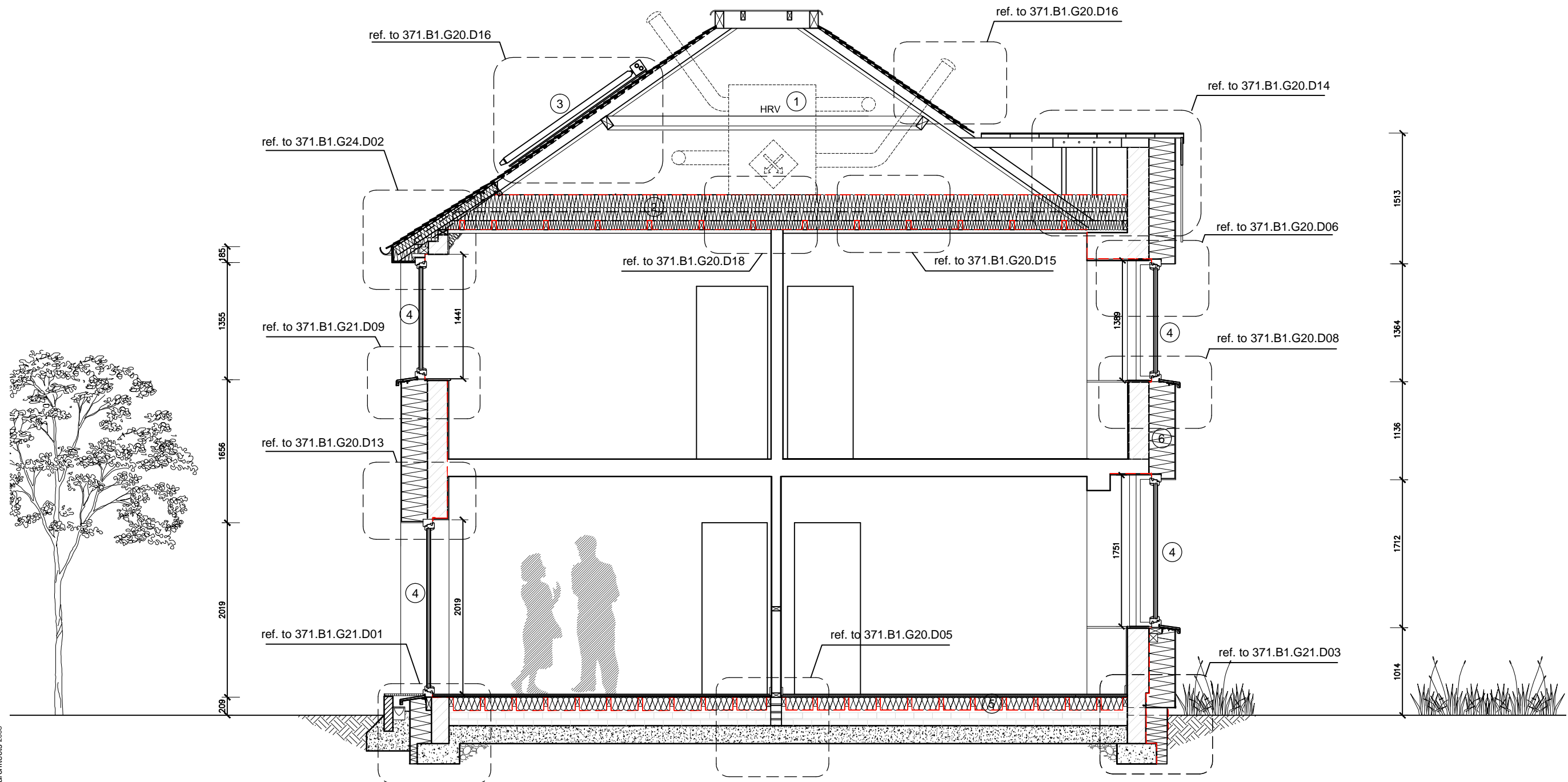
**Scale:** 1:50 @ A3

**Date:** 28.05.10

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Project	Drawing	Rev
<b>0371.B1.G20.E01</b>		<b>A</b>

- ① Heat recovery ventilation unit
- ② 405mm of Warmcel 500
- ③ Solar Collector
- ④ Timber triple glazed Passivhaus window
- ⑤ 150mm Rockwool insulation
- ⑥ 300mm Permarock Insulated render syst



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Rev	Description	Date	By	Chk
A	First issue	28.05.10	SLH	DC

## G20 GENERAL ARRANGEMENT

**Project:** 78 Grove Road  
Hounslow London

**Subject:** Section AA  
PROPOSED

**Scale:** 1:50 @ A3

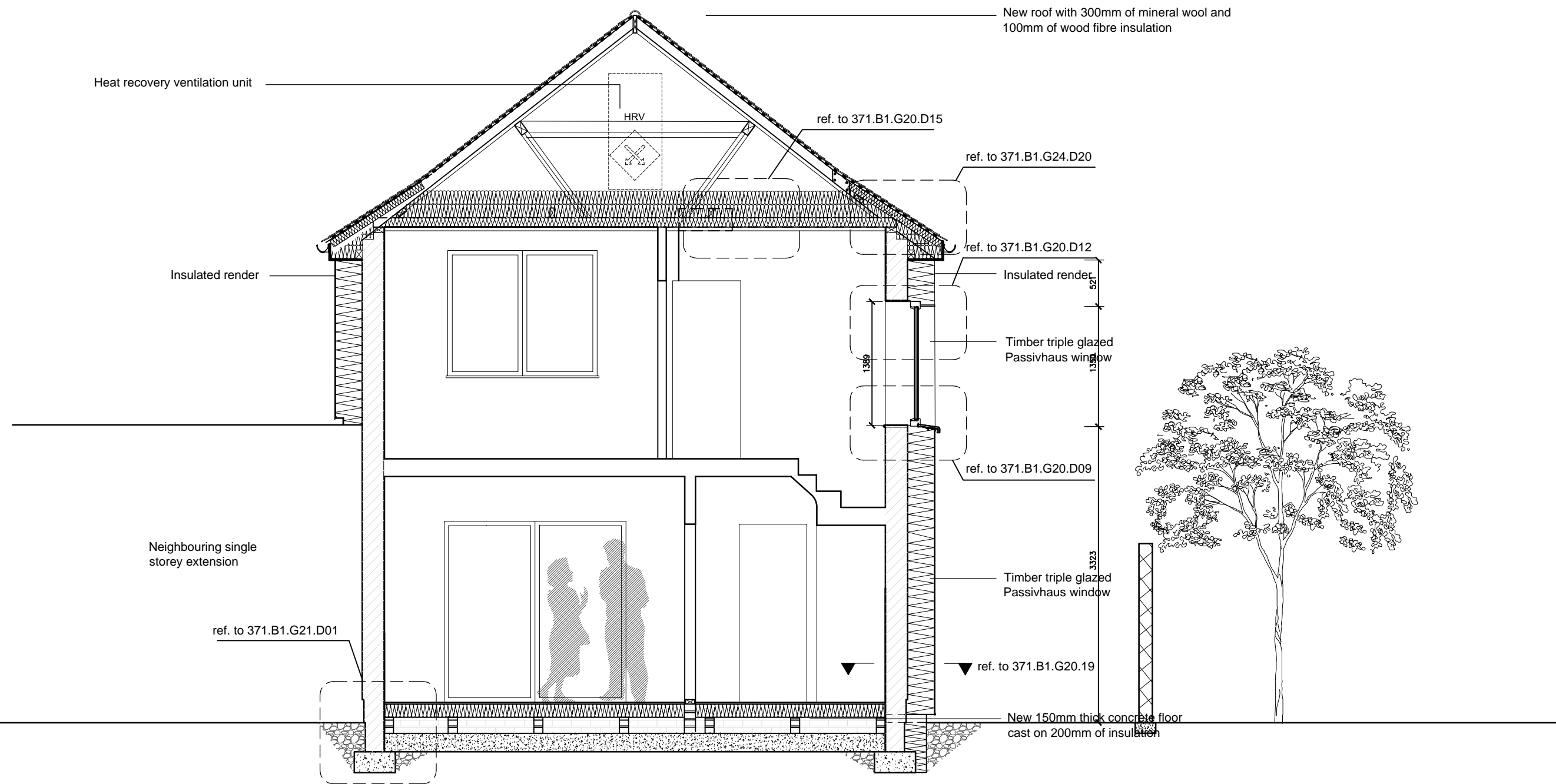
**Date:** 28.05.10

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Project | Drawing

# 0371.B1.G20.S01



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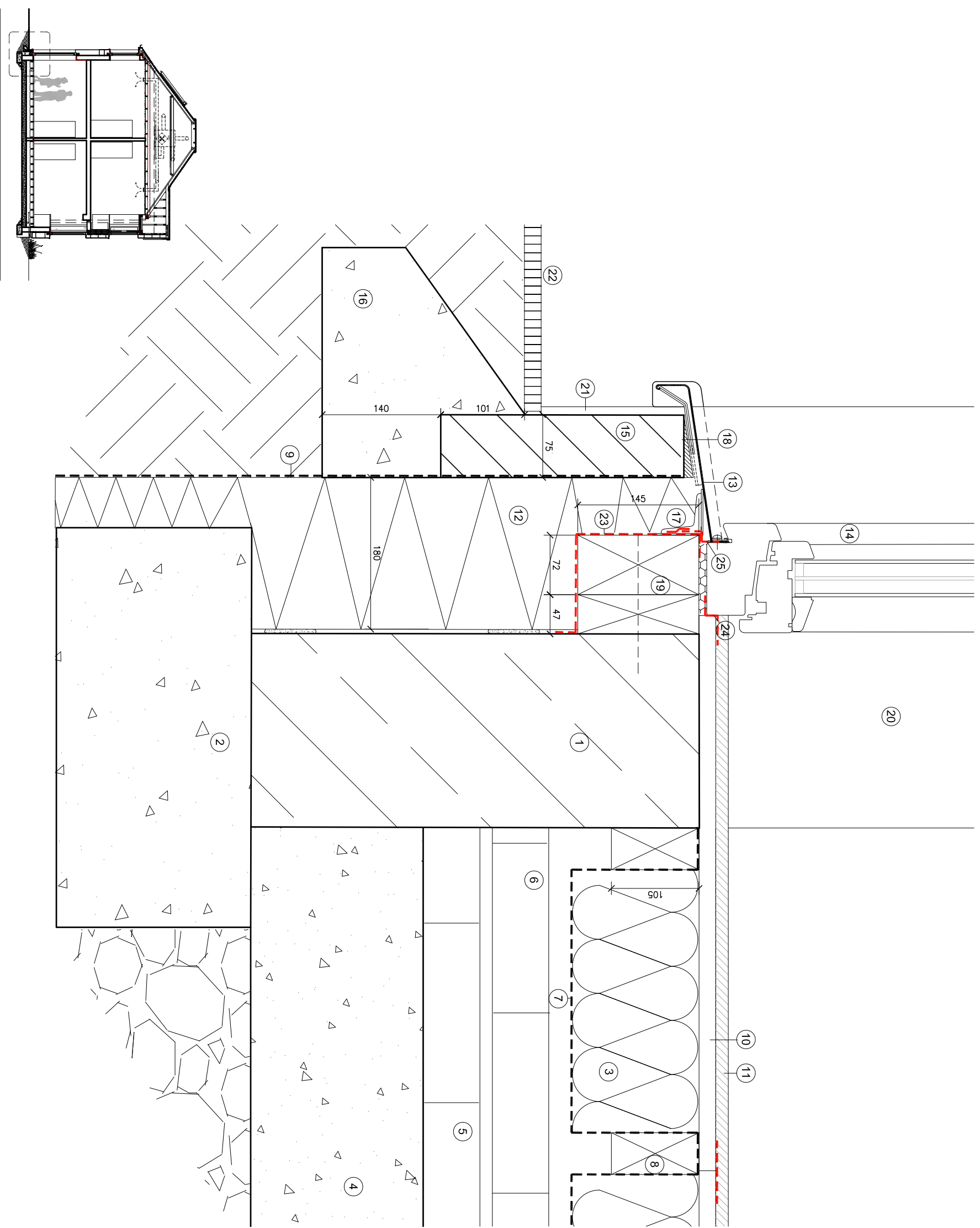
- 1 Use figured dimensions only
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Rev	Description	Date	By	Chk
A	Stage 1 report	28.05.10	MK	JB

## G20 GENERAL ARRANGEMENT

**Project:** 78 Grove Road  
Hounslow London  
**Subject:** Section BB  
PROPOSED  
**Scale:** 1:50 @ A3  
**Date:** 28.05.10

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 Project | Drawing | Rev  
**0371.B1.G20.S02 A**



- 1 Existing solid brick wall
- 2 Existing concrete strip foundations (assumed)
- 3 150mm Knauf insulation NBS L.10.250
- 4 Existing concrete slab
- 5 Ventilation cavity
- 6 Existing dwarf walls
- 7 Square mesh polyethylene net draped over joists and stapled to sides of joists.
- 8 Existing floor joist
- 9 PermaRock CT-114 Waterproof Adhesive coating applied over face of insulation and lapped over reinforced bedding mortar and decorative finish to min. 50mm above ground level NBS M21.215A
- 10 New OSB with taped joints in place of existing floor boards NBS K11.335A
- 11 13mm floor finishes (carpet and underlay)
- 12 External insulation extended below ground level. NBS M21.215A
- 13 New Gutmann GS40 window cills NBS L.10.225
- 14 New Timber triple glazed Passivhaus french doors with new painted timber cills and linings NBS L.10.225 taped to hardboard and external wall.
- 15 New lightweight blockwork NBS F.10.350
- 16 New concrete haunching
- 17 New aluminium angle to S. Eng design and specification, screwed to timber window support.
- 18 Timber Packing
- 19 NBS G20.210 New timber studs fixed to wall with Rawplugg FF-10160 Frame Fixers at 400mm centres
- 20 New internal plywood linings NBS K11.815
- 21 Permarock capatect render continued across block work NBS M21.215A
- 22 Garden surfaces reinstated
- 23 NBS P.10.315 Intello airtightness membrane sealed to existing wall with Orcon F sealed to timber with stainless steel staples.
- 24 NBS L.10.815 Illbruck window airtightness tape to inside of window in accordance with manufacturers installation instructions. Taped to wall with Tescon No 1 use Orcon F if necessary.
- 25 NBS L.10.815 Illbruck window weatherproofing tape to outside of window in accordance with manufacturers installation instructions. Taped to Intello membrane with Tescon No 1

Rev	Description	Date	By	Chk
A	First issue	28.05.10	SH	DC
B	Second issue	09.03.11	SH	DC

**G20 GENERAL ARRANGEMENT**

**CONSTRUCTION ISSUE**

**Project:** 78 Grove Road  
Hounslow London

**Subject:** Foundation Detail  
PROPOSED

**Scale:** 1:5 @ A3

**Date:** 01.06.10

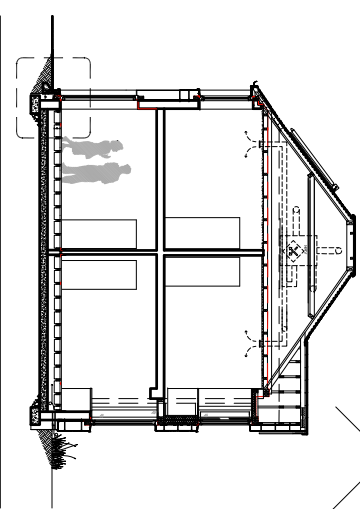
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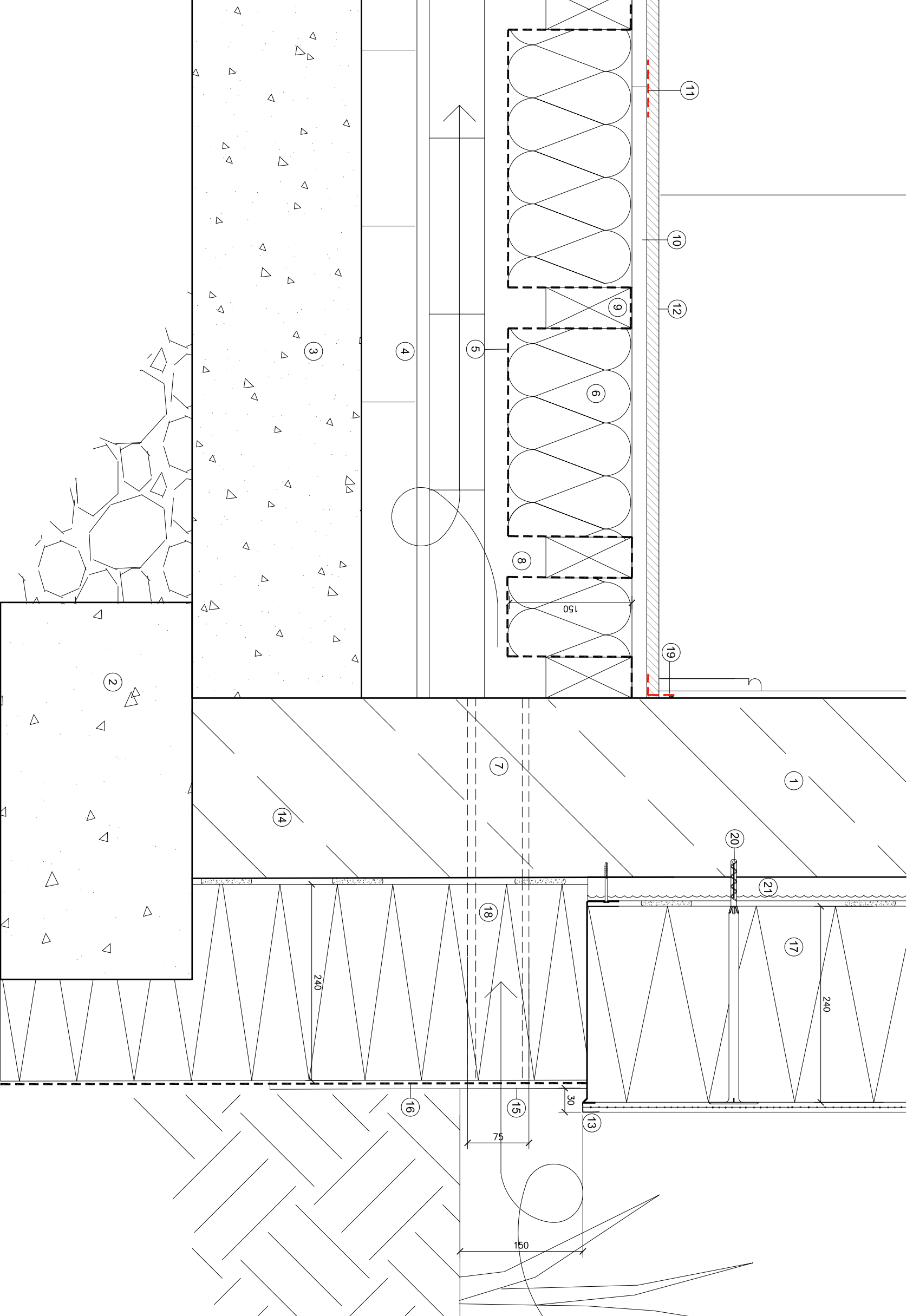
Project Drawing Rev

**0371.B1.G20.D01 B**

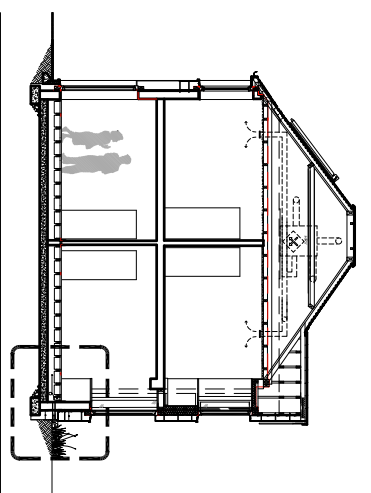
- 1 Use figured dimensions only
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- 1 Existing solid brick wall
- 2 Existing concrete strip foundations (assumed)
- 3 Existing concrete slab
- 4 Existing ventilated cavity
- 5 New square mesh polyethylene net draped over joists and stapled to sides of joists.
- 6 150mm Knauf insulation NBS L10.250
- 7 Existing air brick
- 8 Existing timber on dwarf wall (elevation)
- 9 Existing floor joists
- 10 New OSB re-laid in place of existing floor boards NBS K11.335A
- 11 Tescon No. 1 over joints in OSB NBS K11.335A
- 12 Existing floor finishes carpet and underlay reinstated
- 13 New PermaRock plastic starter track fixed through pebbledash to existing brick wall
- 14 New PermaRock XPS insulation boards NBS M21.215A
- 15 New PermaRock Capatect heavy duty render to ground-wall junction. NBS M21.215A
- 16 PermaRock CT-114 Waterproof Adhesive coating applied over face of insulation and lapped over reinforced bedding mortar and decorative finish to min. 50mm above ground level
- 17 New PermaRock insulated render system PermaRock K-finish render. 240mm PermaRock EPS insulation boards NBS M21.210A. - total build up 250mm.
- 18 New air brick sleeve
- 19 Orcon F to seal airtightness layer to wall NBS K11.335A
- 20 PermaRock fixing indicative
- 21 Existing pebbledash



Rev	Description	Date	By	CHK
A	First issue	15.06.10	SLH	DC
B	Second issue	09.03.11	SLH	DC

- 1 Use figured dimensions only
- 2 Do not scale from this drawing
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# G20 GENERAL ARRANGEMENT

CONSTRUCTION ISSUE

**Project:** 78 Grove Road  
Hounslow London

**Subject:** Foundation Detail  
PROPOSED

**Scale:** 1:5 @ A3

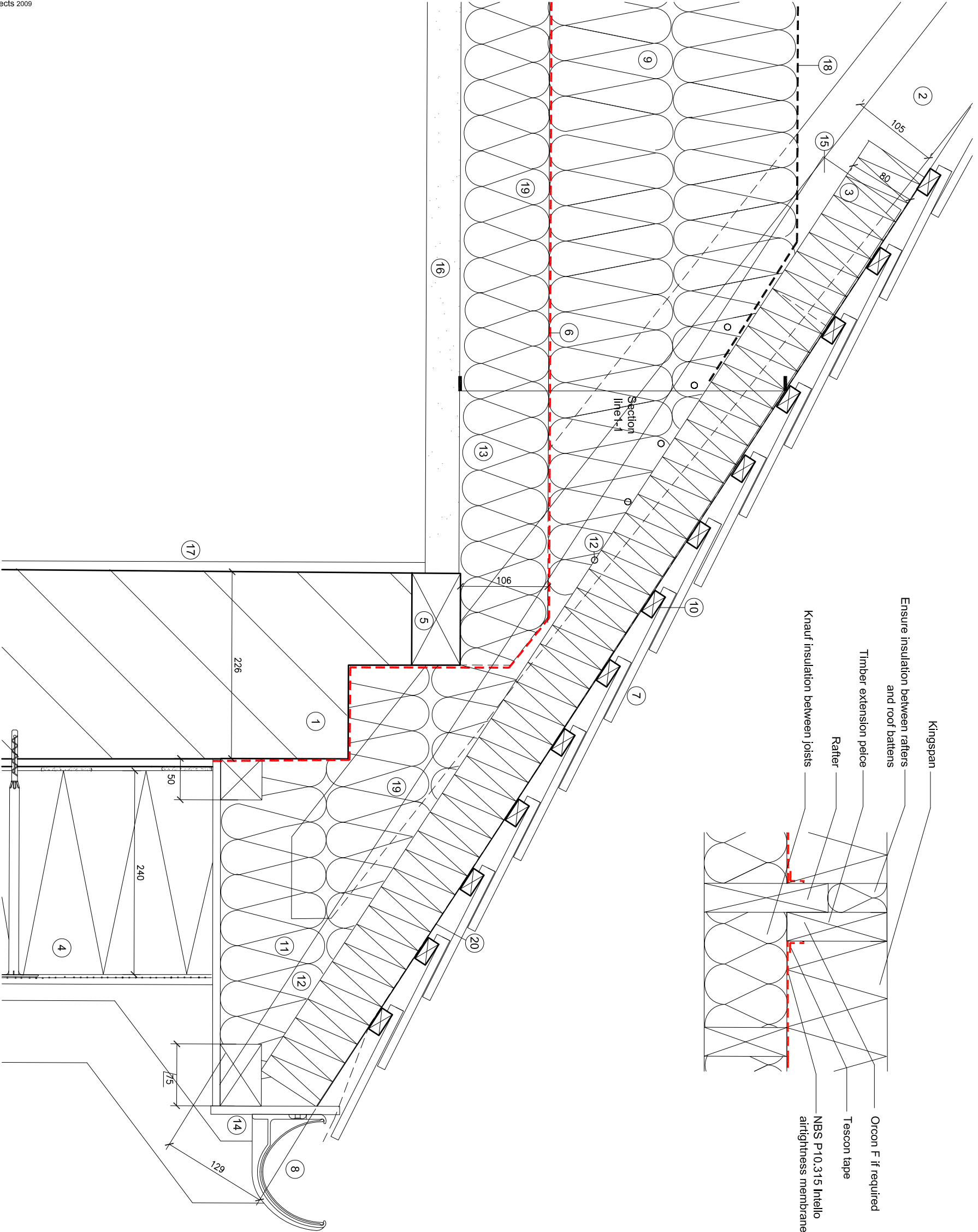
**Date:** 28.05.10

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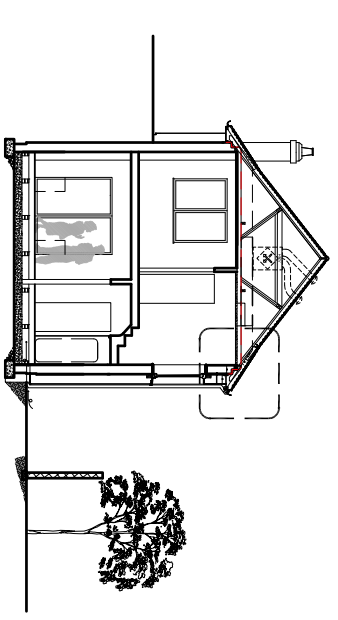
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Project Drawing Rev

**0371.B1.G20.D02 B**



- 1 Existing solid brick wall
- 2 Existing rafter
- 3 New Kingspan insulation board 80mm NBS P10.140A
- 4 New PermaRock insulated render system PermaRock K-finish render, 240mm PermaRock EPS insulation boards NBS M21.210A, - total build up 250mm.
- 5 Existing timber wall plate on existing solid brick wall.
- 6 Intello airtightness membrane NBS P10.315 laid over knauf insulation and joists. Sealed to existing PermaRock parge coat
- 7 Existing roof tiles relayed. New to match existing tiles NBS H60.105
- 8 New guttering to match existing
- 9 300 mm of Warmcel 500 insulation above joists and airtightness membrane NBS P10.150A
- 10 Timber battens
- 11 New rafter extension fixed to existing
- 12 Timberlok fastener
- 13 Existing roof joist
- 14 New timber barge board
- 15 New timber stud supporting kingspan fixed to rafter
- 16 Existing lath and plaster ceiling
- 17 Existing plastered walls
- 18 NBS P10.315A Solitex breather membrane to protect insulation
- 19 Knauf insulation NBS P10.250 filling void in eaves and 105mm laid between joists
- 20 New underlay to tiles NBS H60.240



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Rev	Description	Date	By	Chk
A	First issue	02.06.10	SLH	DC
B	Second issue	09.03.11	SLH	DC

Use figured dimensions only  
 Do not scale from this drawing  
 All dimensions to be checked on site and the Architect to be informed of any discrepancies before construction commences  
 All references to drawings refer to current revision of that drawing  
 Structural and services information shown is indicative only. Refer to consultants drawings for details and setting out  
 All work and materials to be in accordance with current applicable statutory legislation and to comply with all relevant codes of practice and British and European standards

# G20 GENERAL ARRANGEMENT

**CONSTRUCTION ISSUE**

**Project:** 78 Grove Road  
Hounslow London

**Subject:** Eaves Detail 2  
PROPOSED

**Scale:** 1:5 @ A3

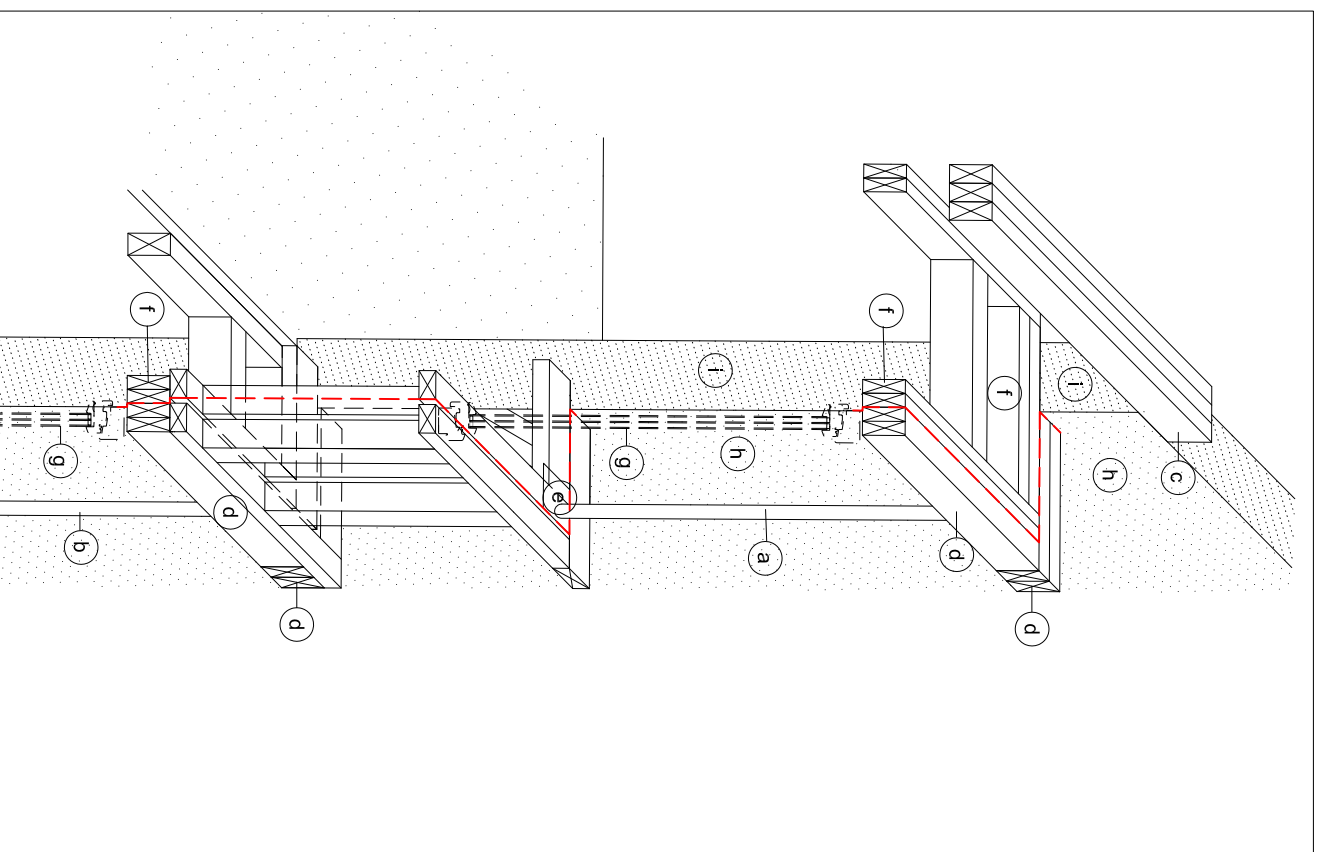
**Date:** 02.06.10

**Project:** Drawing  
**Rev**

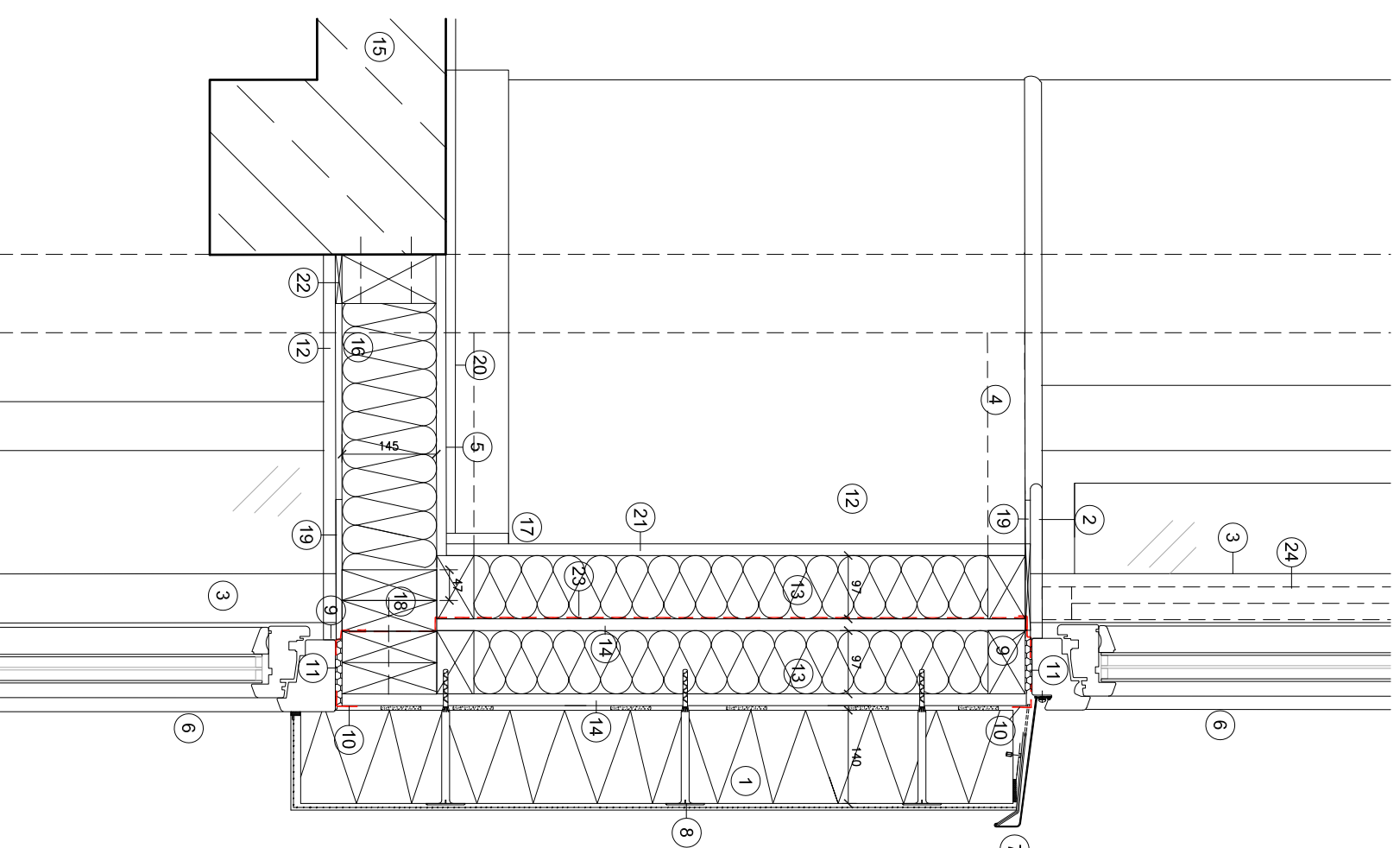
**Project:** Drawing  
**Rev**

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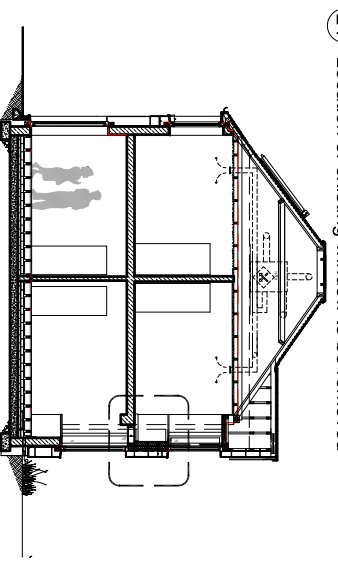
**0371.B1.G20.D04 B**



- a) Steel structural CHS post to structural eng. spec. on first floor
- b) Steel structural CHS post to structural eng. spec fixed to existing wall on ground floor
- c) New timber lintel above bay area to structural eng. spec.
- d) New timber lintel above window to structural eng. spec. returning to wall and fixed to exterior of wall.
- e) 10mm Steel base plate welded to CHS fixed to timber frame
- f) Timbers to inside of window lintel returning to wall and fixed to interior of wall
- g) Section through Passivhaus triple glazed window indicating position of windows.
- h) Existing wall exterior of property
- i) Existing wall interior of bay area



- 1) New Permarock insulated render system Permarock K-finish render. 140 mm Permarock EPS insulation boards NBS M21.210A. - total build up 150mm.
- 2) New 25mm interior timber window cill routed out on under side to accommodate steel base plate to CHS
- 3) Steel structural CHS post to structural eng. spec.
- 4) New timber stud frame fixed to existing wall to replace first floor bay
- 5) New OSB level with existing floor boards NBS P10.130A
- 6) New timber triple glazed Passivhaus windows NBS L10.225 with new painted timber linings and cills internally NBS K11.815 and Gutmann aluminium cills externally
- 7) New Gutmann aluminium window cill NBS L10.225
- 8) Permarock fixing indicative
- 9) Intello CONTEGA FC or Illbruck window air tightness tape to inside of window in accordance with manufacturers installation instructions. Taped to plywood with Tescon No.1 NBS L10.815
- 10) Illbruck window weatherproofing tape to outside of window in accordance with manufacturers installation instructions. Taped to plywood with Tescon No.1 NBS L10.815
- 11) Expanded foam infill
- 12) New painted 15mm ply lining to timber frame NBS K11.815
- 13) New paraflex insulation board 180mm NBS P10.140A
- 14) New 18mm ply to timber frame NBS K11.815
- 15) Existing timber floor
- 16) Knaufl insulation between floor joists NBS P10.250
- 17) New skirting board
- 18) New timber lintel to structural eng. spec.
- 19) 10mm Steel base plate welded to CHS fixed to timber frame
- 20) Existing floor finishes re-laid
- 21) New plasterboard linings
- 22) Timber packer
- 23) NBS P10.315 Intello airtightness membrane taped to timber studs
- 24) Location of existing window to be removed



Rev	Description	Date	By	Chk
1	Use figured dimensions only			
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3	All dimensions to be checked on site and the Architect to be informed of any discrepancies before construction commences			
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6	All work and materials to be in accordance with current applicable statutory legislation and to comply with all relevant codes of practice and British and European standards			

# G20 GENERAL ARRANGEMENT

**CONSTRUCTION ISSUE**

**Project:**

78 Grove Road  
Hounslow London

**Subject:**

Bay Area Cill Detail  
PROPOSED

**Scale:**

1:10 @ A3

**Date:**

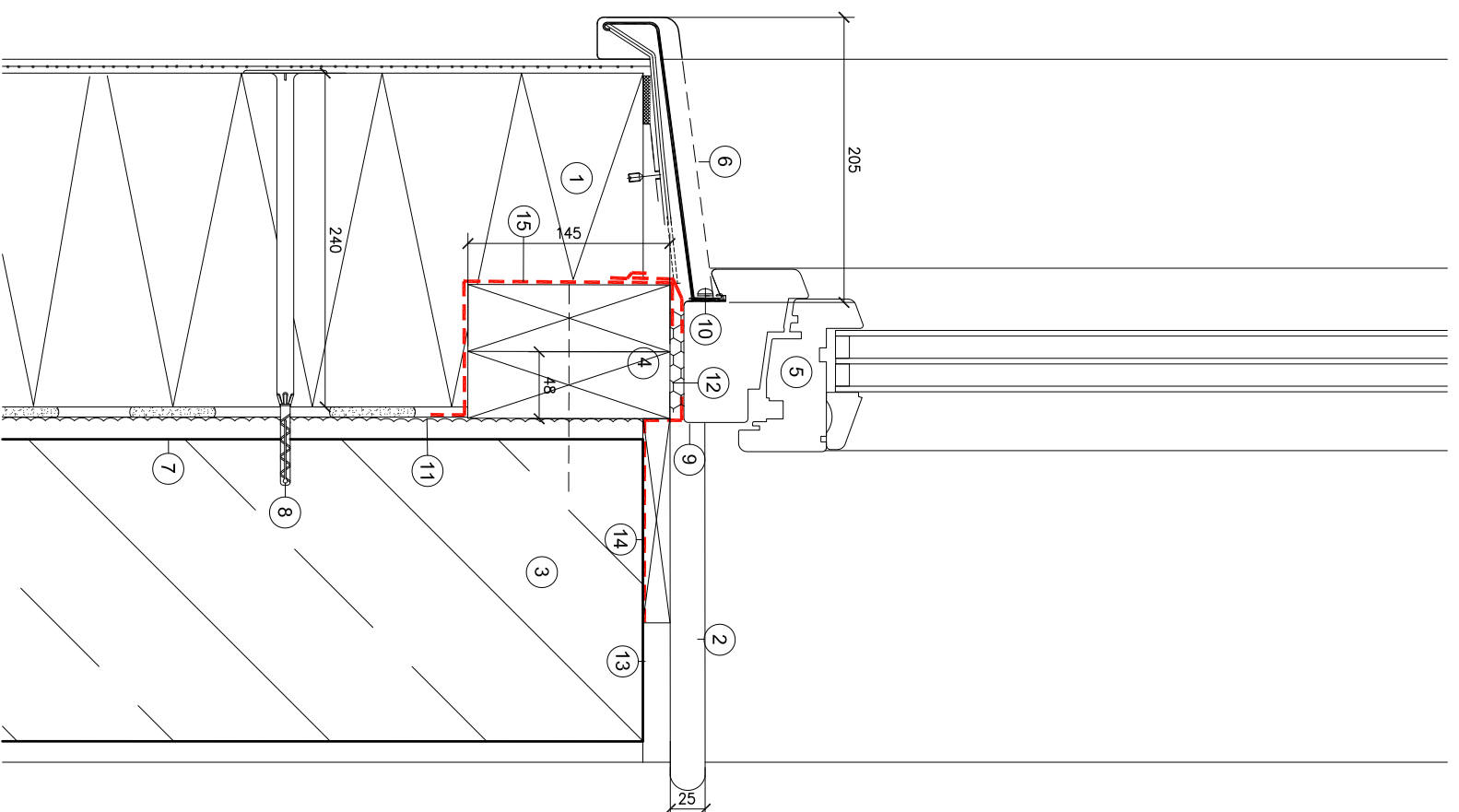
08.09.10

**bere:architects**

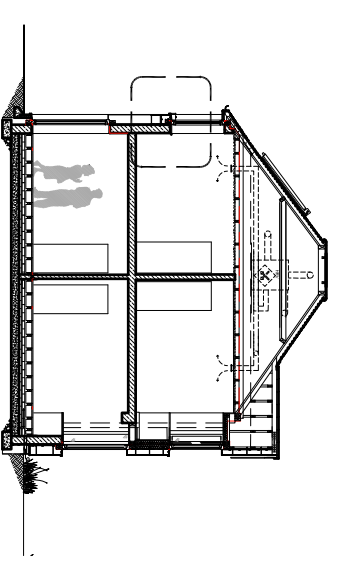
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Project Drawing

**0371.B1.G20.D08 B**



- ① New Permarock insulated render system Permarock K-finish render. 240mm Permarock EPS insulation boards NBS M21.210A. - total build up 250mm.
- ② New 25mm interior timber window cill
- ③ Existing solid brickwork wall
- ④ NBS G20.210 New timber studs fixed to wall with Rawplug FF-10160 Frame Fixers at 400mm centres
- ⑤ New timber triple glazed Passivhaus windows NBS L10.225 with new painted timber linings and cills NBS K11.815 internally and aluminium Gutmann cills externally
- ⑥ New Gutmann aluminium window cill
- ⑦ Existing pebbledash
- ⑧ Permarock fixing indicative
- ⑨ NBS L10.815 Illbruck window airtightness tape to inside of window in accordance with manufacturers installation instructions. Taped to wall with Tescon No 1 use Oron F if necessary. Ensure tape is continuous to existing window cill
- ⑩ NBS L10.815 Illbruck window weatherproofing tape to outside of window in accordance with manufacturers installation instructions. Taped to Intello membrane with Tescon No 1
- ⑪ Permarock pargecoat
- ⑫ Expanded foam infill
- ⑬ Existing window cill
- ⑭ Timber packer
- ⑮ NBS P10.315 Intello airtightness membrane sealed to existing wall with Oron F sealed to timber with stainless steel staples.



- 1 Use figured dimensions only
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- 4 All references to drawings refer to current revision of that drawing
- 5 Structural and services information shown is indicative only. Refer to consultants drawings for details and setting out
- 6 All work and materials to be in accordance with current applicable statutory legislation and to comply with all relevant codes of practice and British and European standards

Rev	Description	Date	By	Chk
A	First issue	02.06.10	SH	DC
B	Second issue	09.03.11	SH	DC

## G20 GENERAL ARRANGEMENT

CONSTRUCTION ISSUE

**Project:**

78 Grove Road  
Hounslow London

**Subject:**

Window Cill Detail  
PROPOSED

**Scale:**

1:5 @ A3

**Date:**

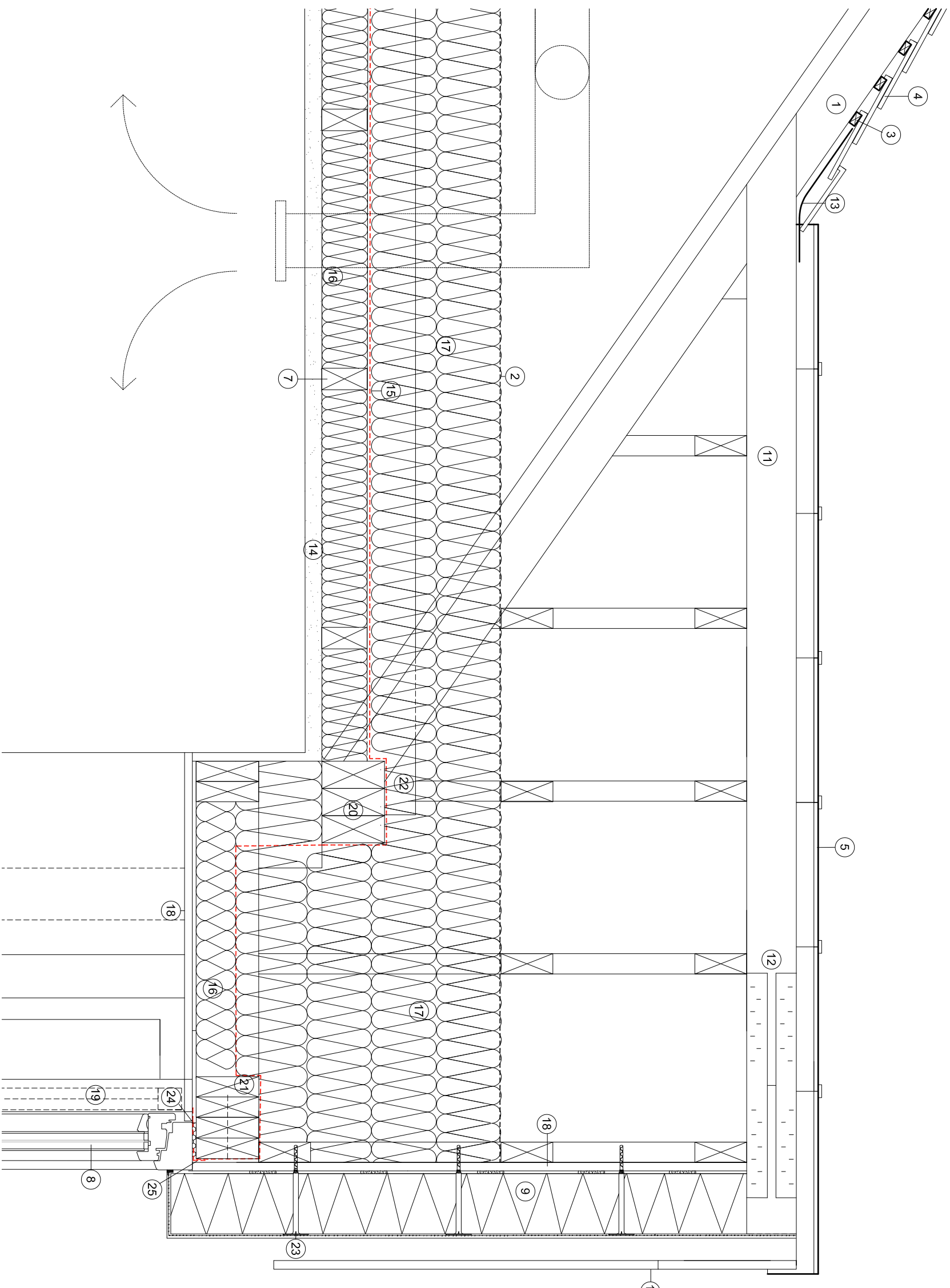
02.06.10

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Project Drawing

0371.B1.G20.D09 B



- 1 Existing rafter
- 2 NBS P10.315A Solitex breather membrane to protect insulation
- 3 Existing timber battens
- 4 Existing roof tiles
- 5 New ridge and roof tiles to match existing NBS H60.105
- 6 Existing solid brick wall
- 7 Existing roof joists
- 8 New timber triple glazed Passivhaus windows NBS L10.225 with new painted timber cills and linings NBS K11.815
- 9 New Permarock insulated render system Permarock K-finish render. 140mm Permarock EPS insulation boards NBS M21.210A. - total build up 150mm.
- 10 New timber eaves boards to match existing
- 11 Existing dormer ridge beam
- 12 New timber extension fixed to existing dormer ridge beam using BAT Splice Plate. NBS G20.835
- 13 Lead flashing NBS H71.520
- 14 Existing lath and plaster
- 15 Intello airtightness membrane NBS P10.315 laid over Knarf insulation and joists sealed to existing walls
- 16 105mm Knarf insulation NBS P10.250 between joists
- 17 300mm of Warmcel 500 above airtightness membrane and filling void in dormer area NBS P10.150A
- 18 18mm plywood NBS K11.815
- 19 Load bearing CHS corner post fixed to lintel
- 20 New SW joists as lintel to bay
- 21 New Timber joists as lintel over window
- 22 New timber binder
- 23 Permarock fixing indicative
- 24 Ilbruck window air tightness tape to inside of window in accordance with manufacturers installation instructions. NBS L10.815
- 25 Ilbruck window weatherproofing tape to outside of window in accordance with manufacturers installation instructions. NBS L10.815

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Rev	Description	Date	By	Chk
1	Use figured dimensions only			
2	Do not scale from this drawing			
3	All dimensions to be checked on site and the Architect to be informed of any discrepancies before construction commences	28.05.10	SLH	DC
4	All references to drawings refer to current revision of that drawing	09.03.11	SLH	DC
5	Structural and services information shown is indicative only. Refer to consultants drawings for details and setting out			
6	All work and materials to be in accordance with current applicable statutory legislation and to comply with all relevant codes of practice and British and European standards			

# G20 GENERAL ARRANGEMENT

**CONSTRUCTION ISSUE**

**Project:** 78 Grove Road  
Hounslow London

**Subject:** Dormer Roof Detail  
PROPOSED

**Scale:** 1:10 @ A3

**Date:** 28.05.10

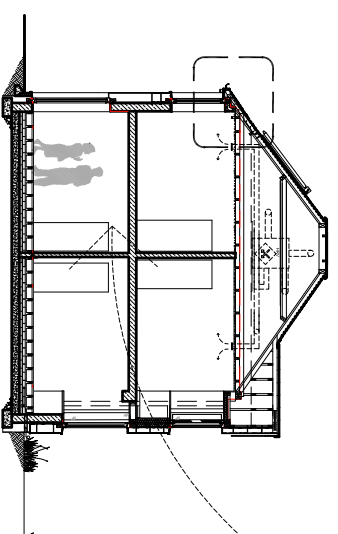
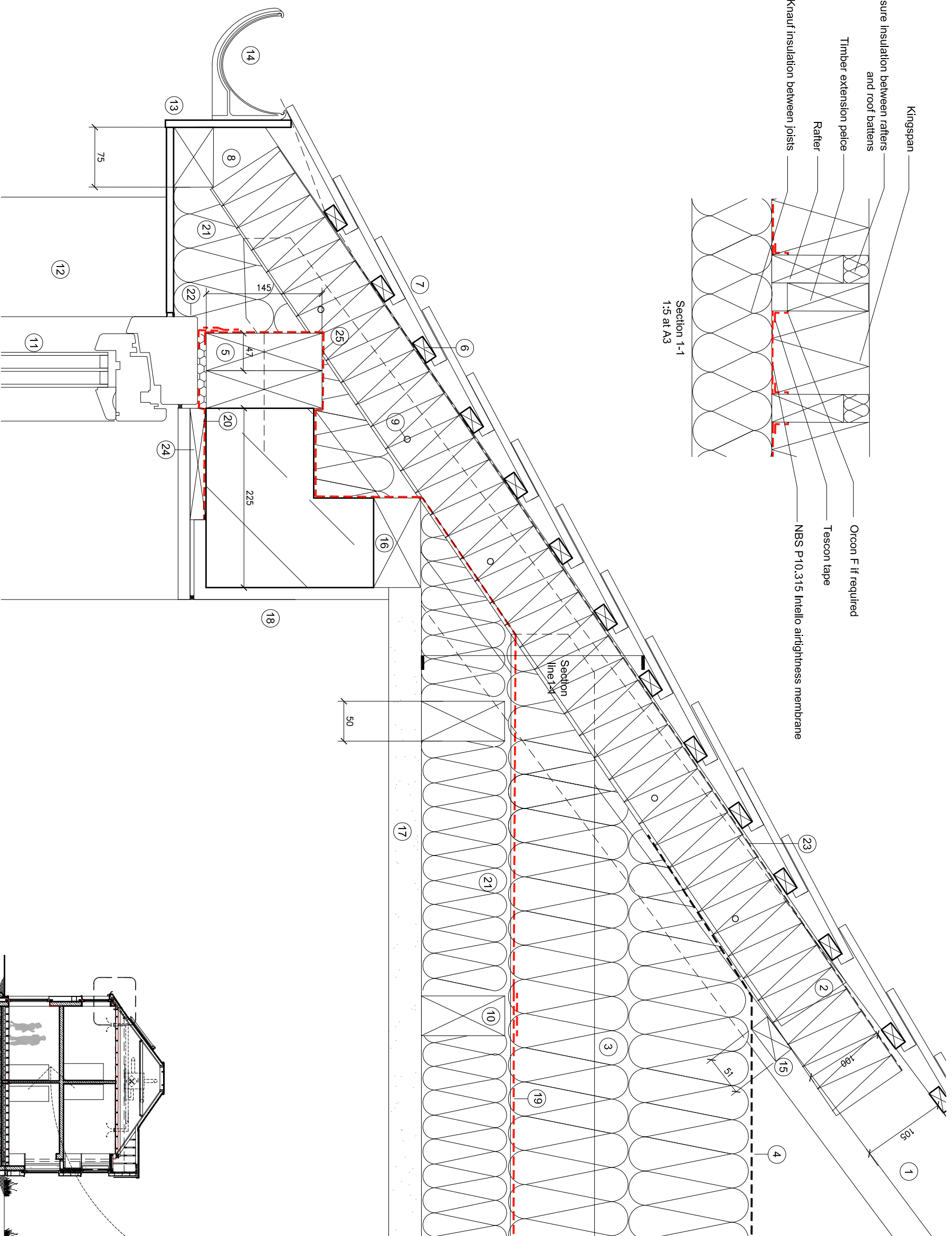
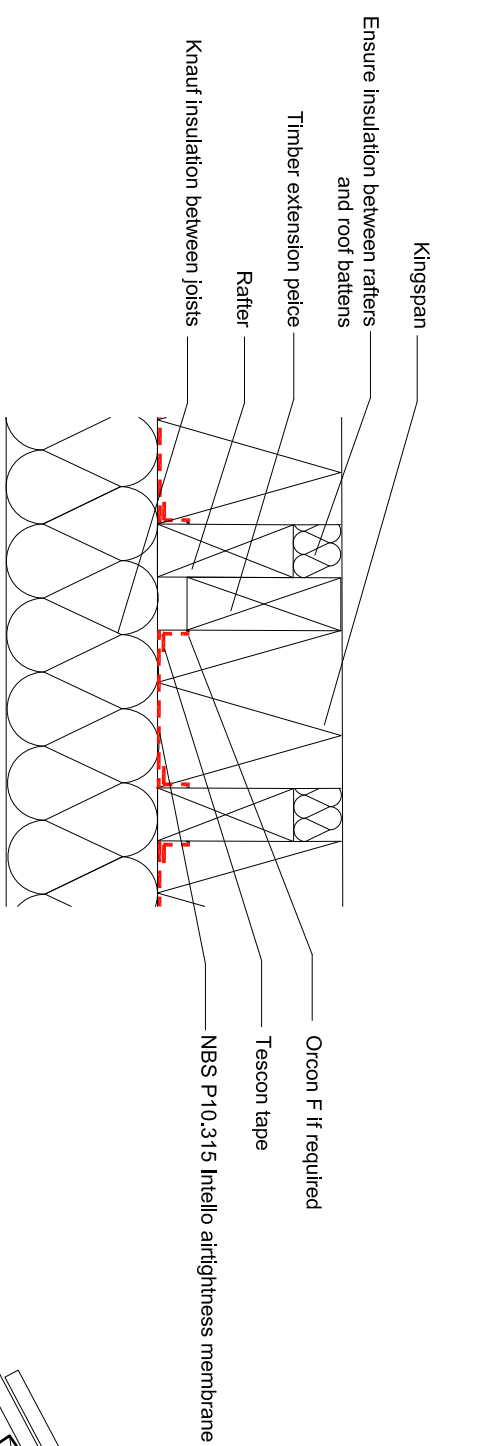
**Project:** 73 Poets Road, London, N5 2SH  
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**Project:** Drawing

**0371.B1.G20.D14**

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**B**



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4 All references to drawings refer to current revision of that drawing

5 Structural and services information shown is indicative only. Refer to consultants drawings for details and setting out

6 All work and materials to be in accordance with current applicable statutory legislation and to comply with all relevant codes of practice and British and European standards

Rev	Description	Date	By	Chk
A	First issue	28.05.10	SH	DC
B	Second issue	09.03.11	SH	DC

## G20 GENERAL ARRANGEMENT

**CONSTRUCTION ISSUE**

**Project:** 78 Grove Road  
Hounslow London

**Subject:** Eaves detail  
PROPOSED

**Scale:** 1:5 @ A3  
**Date:** 28.05.10

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Project Drawing Rev

**0371.B1.G20.D03 B**

① Existing rafter

② New Kingspan insulation board 100mm NBS P10.140A

③ 300 mm of Warmcel 500 insulation above joists and airtightness membrane NBS P10.150A  
New waterproof membrane to protect insulation

④ NBS P10.315A Solitex breather membrane to protect insulation

⑤ New timber stud fixed to wall with suitable resin anchor

⑥ Existing timber battens

⑦ Existing roof tiles relayed. New tiles NBS H60.105

⑧ New timber extension fixed to existing rafter

⑨ Timberlok fastener

⑩ Existing roof joists

⑪ New timber triple glazed Passivhaus window NBS L10.225 with new painted timber cills and linings NBS K11.815

⑫ New Permarock insulated render system Permarock K-finish render, 240mm Permarock EPS insulation boards NBS M2.1210A, - total build up 250mm.

⑬ New timber barge board

⑭ New guttering to match existing

⑮ New timber stud fixed to rafter to support Kingspan

⑯ Existing timber wall plate on existing solid brick wall

⑰ Existing lath and plaster ceiling

⑱ Existing plastered walls

⑲ Intello airtightness membrane NBS P10.315 laid over knauf insulation and joists, taped to existing walls

⑳ NBS L10.815 Illbruck window airtightness tape to inside of window in accordance with manufacturers installation instructions. Taped to wall with Tescon No 1 use Orcon F if necessary. Ensure tape is continuous to window plaster

㉑ Knauf insulation NBS P10.250 filling void in eaves and 105mm laid between joists

㉒ NBS L10.815 Illbruck window waterproofing tape to outside of window in accordance with manufacturers installation instructions. Taped to Intello membrane with Tescon No 1

㉓ New underlay to tiles NBS H60.240

㉔ Timber packing

㉕ NBS P10.315 Intello airtightness membrane sealed to existing wall with Orcon F to meet Intello membrane in loft. Sealed to timber studs with stainless steel staples.