

By Email

Our Ref: 24-218.11L

FAO Sam Buswell
Countryside Partnerships (Yorkshire)
1 Red Hall Avenue
Paragon Business Village
Wakefield
WF1 2UL

4th March 2026

Dear Sam,

RE: Verification of Hazardous Ground Gas Protection Measures at Plots 6, 7, 43 and 51 Land at Hollin Bank, Hollingworth Road, Littleborough

Plots 6 and 7 have been inspected and verified by Arc Environmental Ltd on 8th January, and Countryside Partnerships (Yorkshire) have verified plots 43 and 51, as well as providing evidence of the presence of a sub-floor void beneath plots 6 and 7 as seen within the appended photographic record sheets. At this stage it is recommended that 1 in 10 plots be independently verified, with the remainder inspected by Countryside Partnerships (Yorkshire).

From the results of the hazardous ground gas risk assessment completed by Arc Environmental Ltd, it was determined that the installation of gas protective measures to meet BS8485:2015+A1:2019 – CS2 classification were required, in order to negate any potential risks to the proposed end users.

In order to ensure that the gas protective measures were properly implemented validation works have been undertaken comprising the inspection of the construction and installation of the gas membrane, in general accordance with BS8485:2015 & A1:2019 - Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings, and CIRIA C735:2014 - 'Good Practice on the Testing and Verification of Protection Systems for Buildings Against Hazardous Ground Gas'.

The inspection details are summarised in Table 1 below and continued on the following page. Photographic record sheets for the inspections are also attached with this report.

Table 1

1. Development Summary		
1.1	Type of development and building/blocks inspected	Residential development comprising 126 no. dwellings (1 no. block of 3 terraced houses, 25 no. blocks of semi-detached houses and 73 no. detached houses).
1.2	Foundation type	Majority of plots utilise strip foundations with a suspended block & beam floor and sub floor void. Plots 62-68 alone utilised raft foundations.
1.3	Gas protection type	Majority of plots utilise passive vented sub-floor void and installation of hazardous ground gas barrier membrane. Plots 62-68 alone utilise a cast in-situ reinforced concrete raft with integral retaining wall and fully tanked basement, along with hazardous ground gas barrier membrane.



Arc Environmental Ltd
Solum House
Unit 1 Elliott Court
St John's Road
Meadowfield
Durham
DH7 8PN

RE: Verification of Hazardous Ground Gas Protection Measures at Plots 6, 7, 43 and 51 Land at Hollin Bank, Hollingworth Road, Littleborough (Cont'd)

Table 1 (Cont'd)

2. Passive Venting		
2.1	Sub-floor void	A c.150mm minimum sub-floor void has been constructed below the block and beam floor and this was noted to be vented by way of telescopic swan neck vents (see photographic record sheets). Excluding plots 62-68 which utilise a raft foundation and tanked basement.
2.2	External wall airbricks	c.210mm x c.70mm airbricks with double telescopic swan neck vents to sub-floor void at regular intervals / spacings.
3. Gas Barrier Membrane		
3.1	Condition of sub-grade and underside of gas membrane	No sub-grade present – block & beam and cavity wall construction in all plots aside from 62-68. Floor cleaned before laying gas barrier membrane and noted to be free of significant debris.
3.2	Gas membrane type	Juta GP5 Gas Barrier Membrane (blue) is an extremely robust and high-performance ground gas resistant membrane and also provides protection against moisture. The membrane was laid across all the individual floor areas, and joints between sections of membrane were heat welded. Juta GP DPC is a high specification multi-layer damp proof course (DPC) designed to be sufficiently durable to build into perimeter cavity and load bearing walls as part of a gas barrier membrane system to resist moisture and ground gasses. Where the DPC is joined to the GP5 Gas Barrier Membrane, the joint was heat welded. Juta GP Titantech DPC is a high performance single-layer damp proof course (DPC) designed to be sufficiently durable to build into perimeter cavity and load bearing walls as part of a gas barrier membrane system to resist moisture and ground gasses. Where the DPC is joined to the GP5 Gas Barrier Membrane, the joint was heat welded. Juta Gas Resistant Self Adhesive Membrane (GR SAM) was used to seal all service entries and repair any damage to the membrane.
3.3	Extent of coverage	The extent of the Gas Barrier Membrane coverage was confirmed over all floor areas and was lapped over the perimeter GAS DPC. The laps were sealed with by heat welding.
3.4	Slab / membrane condition	The condition of the Gas Barrier Membrane was confirmed as being in good condition, and any holes or tears were repaired using GR SAM.
3.5	Joining details	The Juta GP5 Gas Barrier Membrane sheets across the floor areas were jointed to each other utilising heat welding.
3.6	Damp proof membrane	Juta GP DPC or Juta GP Titantech DPC was used as a DPM across all floor areas (in accordance with manufacturers specifications). Confirm all laps and joints were heat welded to the Gas Barrier Membrane.
3.7	Service entries and seals	GR SAM was used to seal the Gas Barrier Membrane to every service entry point in the floor slab.
3.8	Service ducts	Service ducts will require appropriate sealing using a closed cell sealant such as FiloSeal or FiloForm. It remains the responsibility of the main contractor to provide photographic evidence of service duct sealings to the Local Authority once services have been pulled through the ducts, if required.

Based on the information provided by Countryside Partnerships, this validation letter confirms that the hazardous ground gas protective measures within Plots 6, 7, 43 and 51 of the residential development have been satisfactorily installed, and inspected by Countryside Partnerships and Arc Environmental Ltd.

RE: Verification of Hazardous Ground Gas Protection Measures at Plots 6, 7, 43 and 51 Land at Hollin Bank, Hollingworth Road, Littleborough (Cont'd)

It is deemed suitable to continue a verification regime of 1 in 10 plots, and this report represents the tenth to eleventh plots inspected by Countryside Partnerships at a 1 in 10 frequency.

We trust the information we have provided to you is to your satisfaction. However, if you require any further information or clarification, please do not hesitate to contact us.

Yours sincerely



.....
Thomas White

Associate

For and on behalf of Arc Environmental Limited

Photographic Record Sheets



A handwritten signature in black ink, appearing to read "TAW/14".

Thomas White
Arc Environmental Ltd

HOLLIN BANK, LITTLEBOROUGH

24-218

Wednesday, March 4, 2026

Prepared For Countryside Partnerships



PHOTO 1

Plot 43 evidence of sub-floor void



PHOTO 2

Plot 51 evidence of sub-floor void



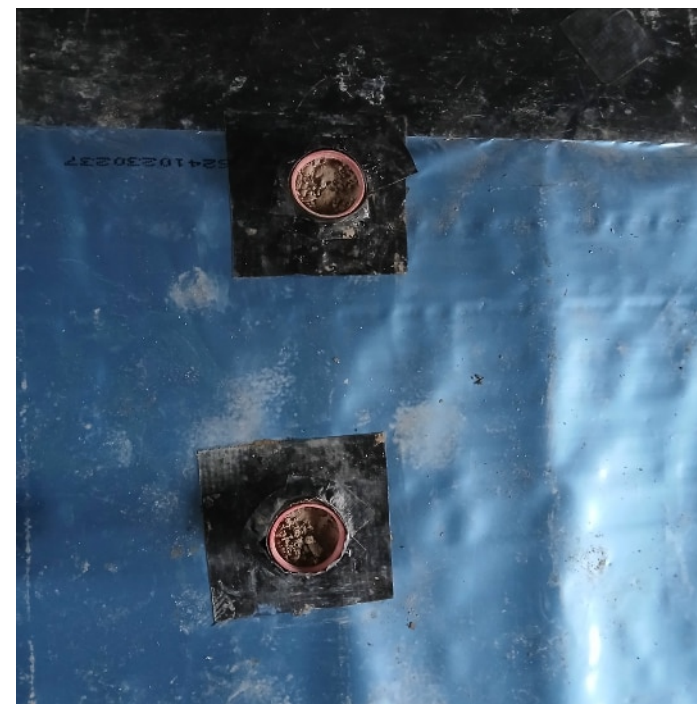
PHOTO 3

Plot 7 evidence of sub-floor void



PHOTO 4

Plot 6 evidence of sub-floor void



ARC ENVIRONMENTAL LTD

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Meadowfield
Durham, DH7 8PN
Tel: (0191) 378 6380
Fax: (0191) 378 0494
e-mail: admin@arc-environmental.com
web: www.arc-environmental.com

The contractor shall check all dimensions on site before commencement of any works. No dimensions to be scaled off this drawing.
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rev.	date	amendments		drawn	chckd

Client:
Countryside Partnerships

Project Title:
Proposed Residential Development,
Land at Hollin Bank, Hollingworth
Road
Littleborough

Drawing Title:
Photographic Record Sheet
Plots 6 & 7
Gas Protection Measures

Scale at A3: | Date: 26.02.26 | Drawn by: SH | Approved by:

Job Ref: 24-218 | Drg no: | Rev:



Adam Robinson
Vistry Group

PLOT 43 GAS MEMBRANE AND AIR BRICKS

Thursday, 29 January 2026

9 Photos Identified



PHOTO 1



PHOTO 2



PHOTO 3



PHOTO 4



PHOTO 5



PHOTO 6



PHOTO 7



PHOTO 8



PHOTO 9



Adam Robinson
Vistry Group

PLOT 51 GAS MEMBRANE AND AIR BRICKS

Thursday, 29 January 2026

9 Photos Identified



PHOTO 1



PHOTO 2



PHOTO 3



PHOTO 4

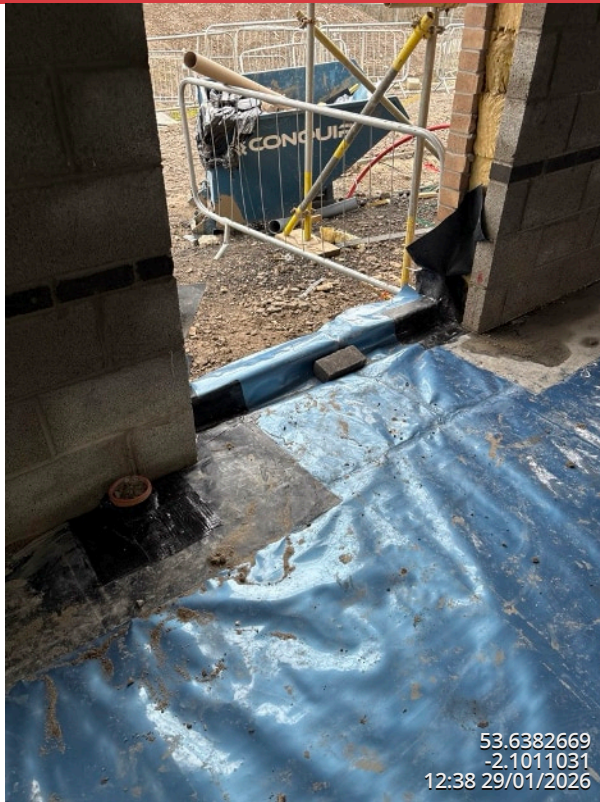


PHOTO 5



PHOTO 6

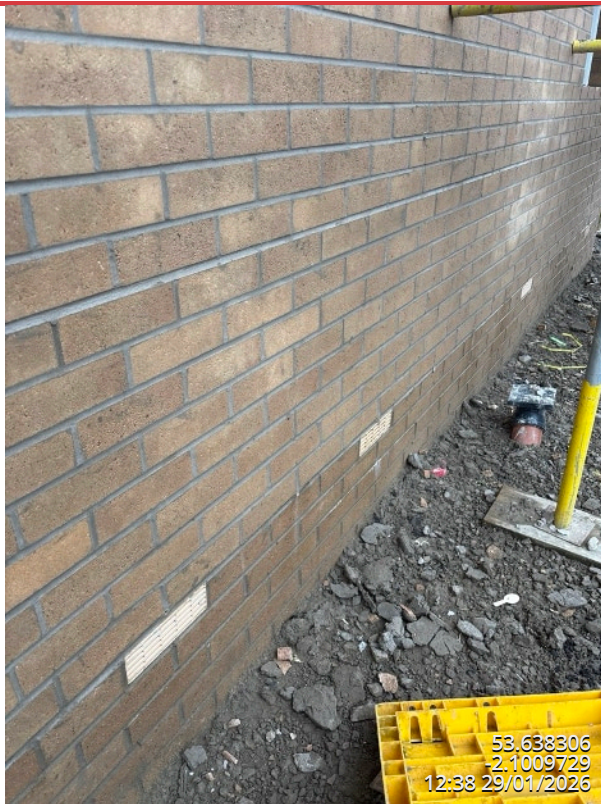


PHOTO 7



PHOTO 8



PHOTO 9

Product Specifications



GP® DPC

GP® DPC - Gas Resistant DPC is a unique single layer, embossed High Performance DPC. GP® DPC is specifically designed and manufactured to perform as a methane, carbon dioxide, radon and moisture resistant damp proof course.

TITANTECH®

For developers of brownfield and contaminated sites the TITANTECH® family of products represent a major step forward in safeguarding projects against gaseous and chemical contamination.

GP® DPC complies with the latest codes of practice as published by BRE, CIRIA and BSI (BS EN 14909 and BS8485:2015). Suitable for use as a High Performance DPC for vertical and horizontal applications. Superior adhesion to mortar is essential for buildings of 3+ storey height.

GP® DPC has an embossed surface to create superior mortar adhesion which is essential when being used in 3+ storey applications. JUTA GP® DPC is compliant to BS EN 14909:2012 and can be used in both vertical and horizontal applications.

Handling

Roll weights can be in excess of 5 kg and hence appropriate care and equipment is required for unloading and handling.

Thickness	0.8 mm
Width	100-1200 m
Length	20 m
Weight	730 g/m ²

Named Accessory in Certification



Please
Scan



Rev 2024



Feature	Characteristics	Test Method	GP® RADON DPC
Physical Properties	Thickness	EN 1849-2	0.8 mm
	Width	EN 1849-2	100-1200 m
	Length	EN 1849-2	20 m
	Weight	EN 1849-2	730 g/m ²
Hydraulic Properties	Water Vapour Permeation	EN 1931	0.09 g/m ² /day
	Resistance to Water Penetration	EN 1928	Pass
Mechanical Properties	Resistance to Static Load	EN 12730 - B	20 kg
	Tensile Strength (MD)	EN 12311-1	24 N/mm ²
	Tensile Strength (CMD)	EN 12311-1	22 N/mm ²
	Tensile Elongation (MD)	EN 12311-1	398%
	Tensile Elongation (CMD)	EN 12311-1	446%
	Resistance to Impact	EN 12691	660 mm
	Resistance to Tearing (Nail Shank) MD	EN 12310-1	700 N
	Resistance to Tearing (Nail Shank) CMD	EN 12310-1	750 N
	Joint Strength	EN 12317-1	520 N
Durability and Chemical Resistance	Heat Ageing	EN 1926	Pass
	Chemical Resistance	EN 1847	Pass
	Resistance to Fire	EN 13501-1	Class F
	Resistance to Low Temperature	EN 495-5	Pass @ -40°C
Gas Permeability	Radon Permeability	K124/02/95	9.5x10 ⁻¹² /m ² /s
	Methane Permeability	BS EN ISO 15105-1	33.9ml/m ² /day/atm
Compliance and Certification	CE Mark - EN13967:2012		
	NHBC Standards Compliant		
	BS EN 14909:2012 Compliant		
	BS 8485:2015 Compliant		

Feature	Pre-Compression (N/mm ²)	Characteristic Shear Strength (N/mm ²)
Characteristic Shear Strength	0.2	0.14
	0.6	0.34
	1.0	0.52

JUTA UK

For additional information or assistance, please contact JUTA UK directly.

Storage

Rolls of JUTA GP® DPC should be stored on stable/level ground and stacked not more than five rolls high, with no other material stacked on top. The rolls can be stored outdoors when packaged but should be protected from exposure to UV. JUTA GP® DPC is classified as non-hazardous and is chemically inert such that it will not react with any acid or alkali environment in which it is used.





Installation

GP® DPC must be installed in accordance with the guidelines laid out in BS8215:1991, BS8000: part 3 and BS 5628. It can be used in most common floor constructions and is installed in a similar manor to damp proof membrane. For external walls the DPC should be applied 150mm above the adjoining surface and should be linked to a DPM or Gas Resistant DPM in solid floors. The DPC should be applied to a fresh bed of mortar, completely free of projections that may puncture the material or impede the DPC from lying flat.

JUTA UK

For additional information or assistance, please contact JUTA UK directly.

Joining and Sealing

Sheets of GP® DPC must be clean, dry and free from dirt and grease before application of joining tape. JUTA GP® DPC may also be heat welded to the underlying Gas resistant membrane.

Accessory Products

JUTA GP® DPC is an accessory product for use in combination with GP® 1, GP® 2, GP®H, GP®SAM and GP® TITANTECH gas protective membranes. It is also compatible with a range of DPM and other DPC materials.



GP®5

GP®5 gas barrier is a multi-layer composite of virgin polyethylene (PE) giving exceptional resistance to the passage of ground gas and organic vapours. It also acts as a high performance DPM.

Thickness	0.4 mm
Width	Various m
Length	Various m
Weight	400 g/m ²

TITANTECH®

For developers of brownfield and contaminated sites the TITANTECH® family of products represent a major step forward in safeguarding projects against gaseous and chemical contamination.

GP®5 is suitable for the following applications:

- Carbon dioxide and methane affected sites in accordance with BS 8485:2015 + A1:2019 & NHBC
- Radon affected sites in accordance with BRE211:2015
- Damp protection in accordance with Building Regulations Part C
- Low level VOC contaminated sites (site specific assessment required)

Handling

Roll weights can be in excess of 20kg and hence appropriate care and equipment is required for unloading and handling.

Installation

GP®5 should be installed in accordance with the product installation guidelines, and in accordance with BS 8485:2015.

Certifications



Please
Scan



Rev 2024



Feature	Characteristics	Test Method	GP [®] 5
Physical Properties	Thickness	EN 1849-2	0.4 mm
	Width	EN 1849-2	Various m
	Length	EN 1849-2	Various m
	Weight	EN 1849-2	400 g/m ²
Hydraulic Press	Resistance to Water Penetration	EN 1928 (A)	Pass
Mechanical Properties	Resistance to Static Load	EN 12730	> 20 kg
	Tensile Strength (MD)	EN 12311-2 (A)	> 300 N/50mm
	Tensile Strength (CMD)	EN 12311-2 (A)	> 300 N/50mm
	Resistance to Tearing (Nail Shank) MD	EN 12310-1	> 230 N
	Resistance to Tearing (Nail Shank) CMD	EN 12310-1	> 230 N
	Impact Resistance	EN 12691-B	500 mm
	Puncture Resistance	ASTM D 4833	> 160 N
	Puncture Resistance	EN 12236	1.60 kN
	Reaction to Fire	EN 13501-1	E
Vapour Permeability	Methane Permeability	BS EN ISO 15105-1	0.12 ml/m ² /day/atm
	Carbon Dioxide Permeability	BS EN ISO 15105-1	1.53 ml/m ² /day/atm
	Hydrogen Permeability	BS EN ISO 15105-1	68.7 ml/m ² /day/atm
	Benzene Permeability	BS EN ISO 15105-2	0.41 ml/m ² /day
	Oxygen Permeability	BS EN ISO 15105-2	<3 ml/m ² /day
	Radon Permeability	K124/02/95	1.0 x 10 ⁻¹² m ² /s
	Hydrogen Sulphide Permeability	BS EN ISO 15105-1	<0.68 ml/m ² /day/atm
Fuel Vapour Permeability	Petrol	BS EN ISO 15105-2	(ave.) 3.4 x 10 ⁻¹³ /mol/(m ² .s.Pa)
	Diesel	BS EN ISO 15105-2	(ave.) 3.4 x 10 ⁻¹³ /mol/(m ² .s.Pa)
Durability	Durability Watertightness After Artificial Ageing	EN 1928	Pass
	Durability Watertightness Against Chemicals	EN 1928	Pass
Compliance and Certification	CE Mark - EN 13967:2012		
	NHBC Standards Compliant		
	BS 8485:2015 + A1 2019 Accordant		

JUTA UK

Please contact JUTA
UK Directly for more
information on GP[®]5

Storage

Rolls of GP[®]5 should be stored on stable/level ground and stacked not more than five rolls high, with no other material stacked on top. The rolls can be stored outdoors when packaged, but should be protected from exposure to UV.



JUTA UK

Please contact JUTA
UK Directly for more
information on GP[®]5

Jointing and Sealing

It is recommended GP[®]5 can be heat welded where possible, with welding carried out by competent personnel with suitable qualifications in accordance with best practice, and guidance contained within BS 8485:2015. GP[®]5 should be overlapped by at least 100mm. If taping joints, only suitable tape must be used, ensuring application with a silicone roller to remove trapped air. JUTA pre-formed details, or self adhesive gas membrane are available for sealing around protuberances.

Accessory Products

- GP[®] DPC
- GP[®] Tape
- GP[®] Self Adhesive Membrane (SAM)
- GP[®] Primer
- GP[®] Top Hats and Preformed Corners
- GP[®] Protection Fleece
- GP[®] Void Vent (24/40mm)

Design Drawings



Schedule of Accommodation		
Type RUT (Rutworth)	2 No.	2 No.
2 Bed 3 Person 2 Storey House	70.13sqm	
M1(1) Viable Dwelling		
Type ATK (Atkins)	2 No.	2 No.
2 Bed 3 Person 2 Storey House	72.88sqm	
M1(1) Viable Dwelling		
Type POP (Poplar)	7 No.	7 No.
3 Bed 5 Person 3 Storey House	118.35sqm	
M1(1) Viable Dwelling		
Type NEW (Newall)	5 No.	5 No.
3 Bed 5 Person 2 Storey House	118.59sqm	
M1(1) Viable Dwelling		
Type SPR (Spruce)	15 No.	15 No.
3 Bed 5 Person 2 Storey House	102.15sqm	
M1(1) Viable Dwelling		
Type RSI (Russett)	7 No.	7 No.
3 Bed 5 Person 3 Storey House	107.72sqm	
M1(1) Viable Dwelling		
Type HAZ (Hazel)	9 No.	9 No.
3 Bed 4 Person 2 Storey House	86.59sqm	
M1(1) Viable Dwelling		
Type CIP (Cypress)	9 No.	9 No.
3 Bed 4 Person 2 Storey House	102.85sqm	
M1(1) Viable Dwelling		
Type ROW (Rowan)	2 No.	2 No.
3 Bed 4 Person 2 Storey House	86.59sqm	
M1(1) Viable Dwelling		
Type MAC (Macarthur)	4 No.	4 No.
4 Bed 5 Person 2 Storey House	99.89sqm	
M1(1) Viable Dwelling		
Type STA (Stanford)	12 No.	12 No.
4 Bed 5 Person 3 Storey House	121.87sqm	
M1(1) Viable Dwelling		
Type WIL (Willow)	4 No.	4 No.
4 Bed 5 Person 2.5 Storey House	127.02sqm	
M1(1) Viable Dwelling		
Type XIN (Xinport)	10 No.	10 No.
4 Bed 5 Person 2.5 Storey House	123.11sqm	
M1(1) Viable Dwelling		
Type CHE (Chesham I)	7 No.	7 No.
4 Bed 5 Person 2.5 Storey House	127.69sqm	
M1(1) Viable Dwelling		
Type CHE (Chesham II)	2 No.	2 No.
4 Bed 5 Person 2.5 Storey House	126.79sqm	
M1(1) Viable Dwelling		
Type MAP (Maple)	8 No.	8 No.
4 Bed 5 Person 2 Storey House	166.50sqm	
M1(1) Viable Dwelling		
Type ASP (Aspen)	10 No.	10 No.
4 Bed 5 Person 2 Storey House	127.30sqm	
M1(1) Viable Dwelling		
Type ASP (Aspen)	3 No.	3 No.
5 Bed 7 Person 2.5 Storey House	167.74sqm	
M1(1) Viable Dwelling		
Type VEW (Vew)	5 No.	5 No.
5 Bed 7 Person 2.5 Storey House	170.20sqm	
M1(1) Viable Dwelling		
Type LHM (Lime)	3 No.	3 No.
5 Bed 7 Person 2 Storey House	191.66sqm	
M1(1) Viable Dwelling - NDCS Compliant		
Sub Total	128 No.	

- Legend**
- ★ Affordable Homes
 - ASHP Location - to be well mounted on brackets in accordance with manufacturer recommendations and details
 - Existing Mischief with L5m Easement
 - Existing Culvert / UU Raw Water Main with 8m Easement
 - Existing UU combined sewer to be retained
 - Existing Electric Cable Route (to be retained)
 - Existing Gas Main Route (to be retained)
- External Materials**
- Estate Roads - Tarmac
 - Coloured Tarmac
 - Block Paving - Hard Margin/Transition Strips
 - Private Drives - Tarmac
 - Footpaths - Tarmac
 - Paving - 450 x 450 Slabs
 - Grasscrete
 - Gabion Cage Retainment
 - Masonry Retaining Wall
 - Flag on Edge Retainment
 - Gravel Board Retainment
- All retainment shown indicatively, refer to Engineers drawings for specification.
- UU Easement
 - Bot Box
 - Sparrow Box
 - Starling Box
 - Swift Box
- Refer to the RFL Frischmann Preliminary Ecological Appraisal (October 2023) and The Environment and Bot Box Proposals (July 2023) for further details in respect to the ecology features.

Revision

P8	20.11.23	DW	AH	Paving to plots 22 and 93 amended in line with engineers levels amendments.
P7	23.10.23	DW	AH	Updated in line with client comments.
P6	17.10.23	DW	AH	Updated in line with client comments.
P5	20.09.23	DW	AH	Updated in line with client comments.
P4	10.07.23	DW	RE	Updated with comments from Countryside Partnerships information.
P3	3.07.23	DW	RE	Updated following receipt of updated engineers information.
P2	05.06.23	DW	RE	Updated with latest QA Plan information.
P1	26.05.23	DW	RE	Updated in line with Vistry Comments.

Rev: 1
Drawn: DW
Checked: AH
Description: DW

S0

Work In Progress

Hollin Gate

Site Plan

Location:

Hollingworth Road
Littleborough

Client:

Vistry Partnerships

UPO	Originator	Date	Level	Type	Role	Series/Number	Revision
HOLL-WBA-XX-XX-DR-A-20_1001	P8						

Date: May 23

Drawn: DW

Checked: RPM

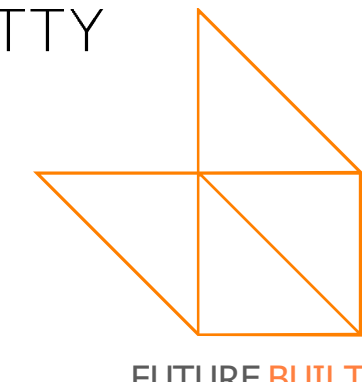
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1 : 500

Int. Job No: 4046-001

NATSON BATTY ARCHITECTS

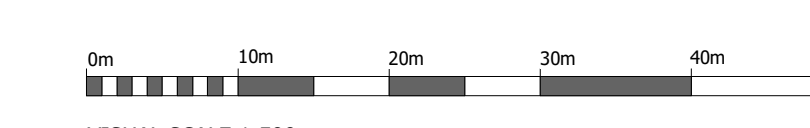
Shires House, Shires Road
Guiseley, Leeds LS20 8EU
Leeds Loughborough
T: 01943 876 665
E: enquiries@natsonbatty.com
W: www.natsonbatty.com



FUTURE BUILT

Site Plan

1 : 500



VISUAL SCALE 1:500

Notes:

Do not Scale from this drawing. All dimensions to be checked on site

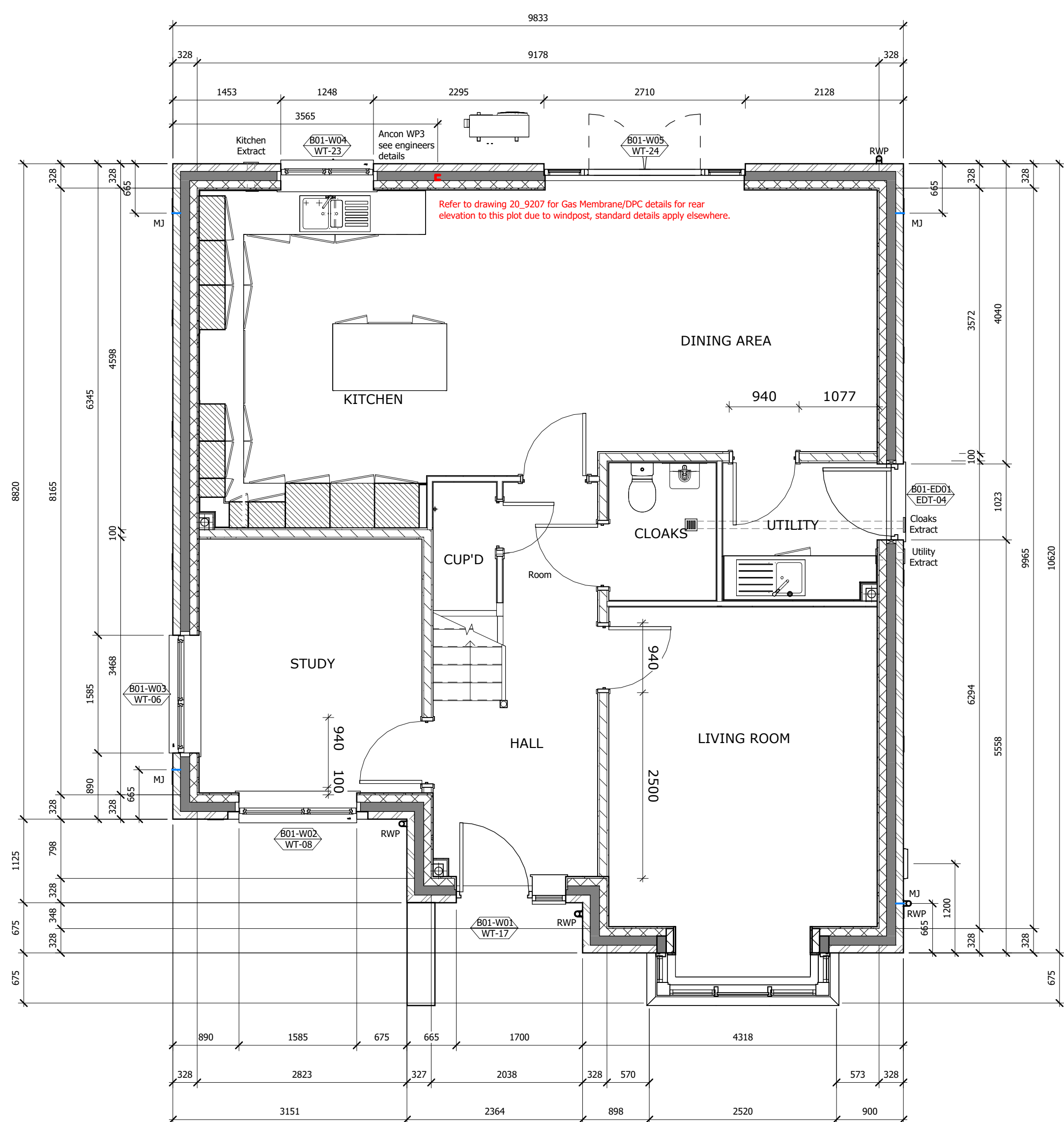
External Door Schedule (Block 01)						
Door Ref	Type Mark	STRUCTURAL		Door Panel - Colour	Required Clear Width	Comments
		Width	Height			
001-ED01	EDT-04	1023	2110	Dark Grey		

Window Schedule (Block 1)								
Mark	Type	Structure	Width	Height	Agrees Window	Safety	Closing	Comments
100 - Ground Floor								
W01	M01	WT-17	1475	1310	No	No	No	
W02	M02	WT-18	1485	1310	No	No	No	
W03	M03	WT-19	1485	1210	No	No	No	
W04	M04	WT-23	1485	1210	No	No	No	
101 - First Floor								
W05	M05	WT-07	1545	1360	Yes	No	No	
W07	M07	WT-26	665	1135	No	No	Yes	
W08	M08	WT-03	665	1135	No	No	Yes	
W09	M09	WT-03	665	1310	Yes	No	No	
W10	M10	WT-07	665	1310	Yes	No	No	
W11	M11	WT-02	665	1210	No	No	Yes	
W12	M12	WT-28	1248	1135	No	No	Yes	
W13	M13	WT-28	1248	1310	Yes	No	No	
W14	M14	WT-28	1248	1310	No	No	Yes	
W15	M15	WT-02	665	1210	No	No	Yes	
W16	M16	WT-02	665	1210	No	No	Yes	

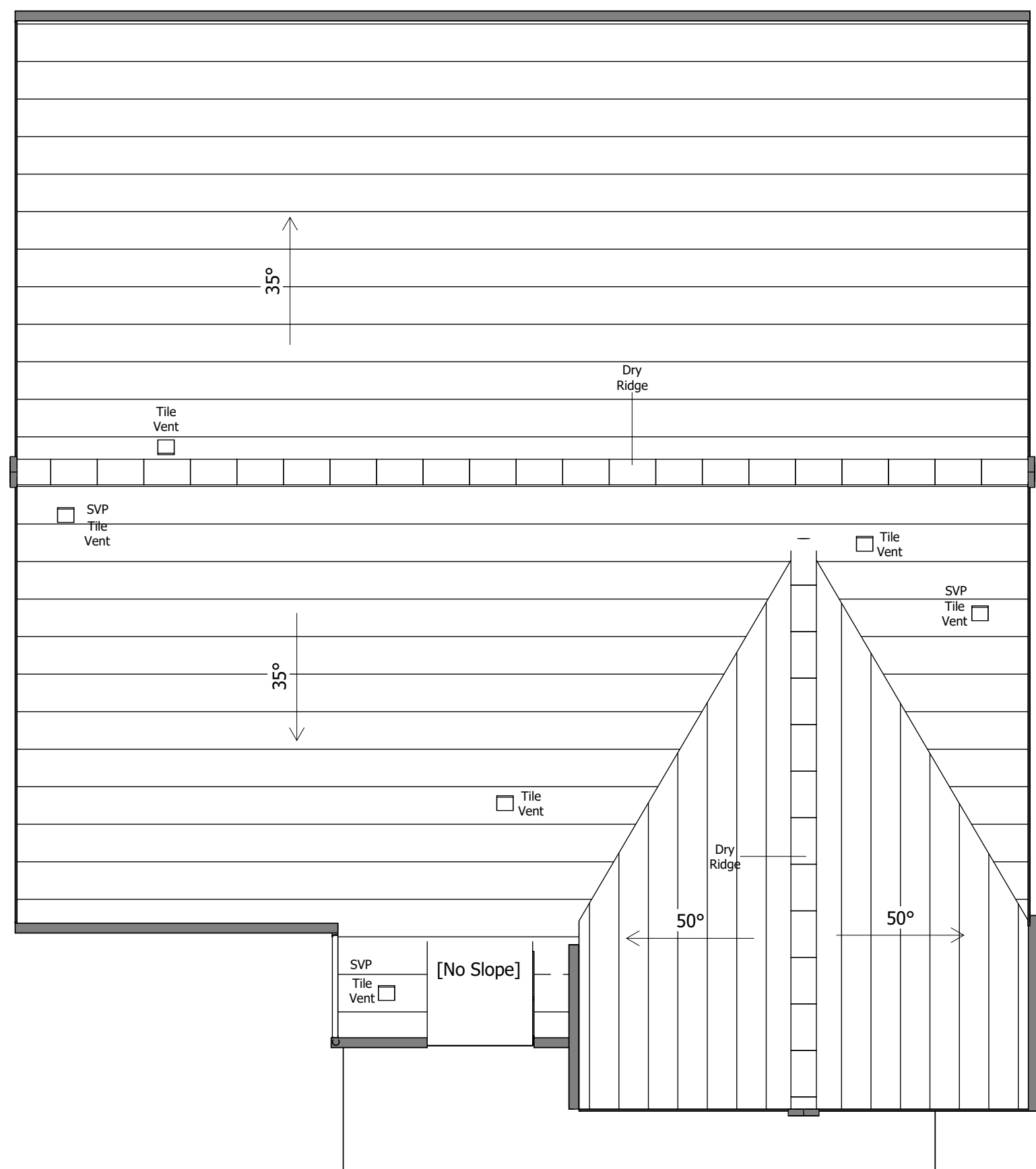
Glazing and Trickle Vent Requirements

Ground Floor

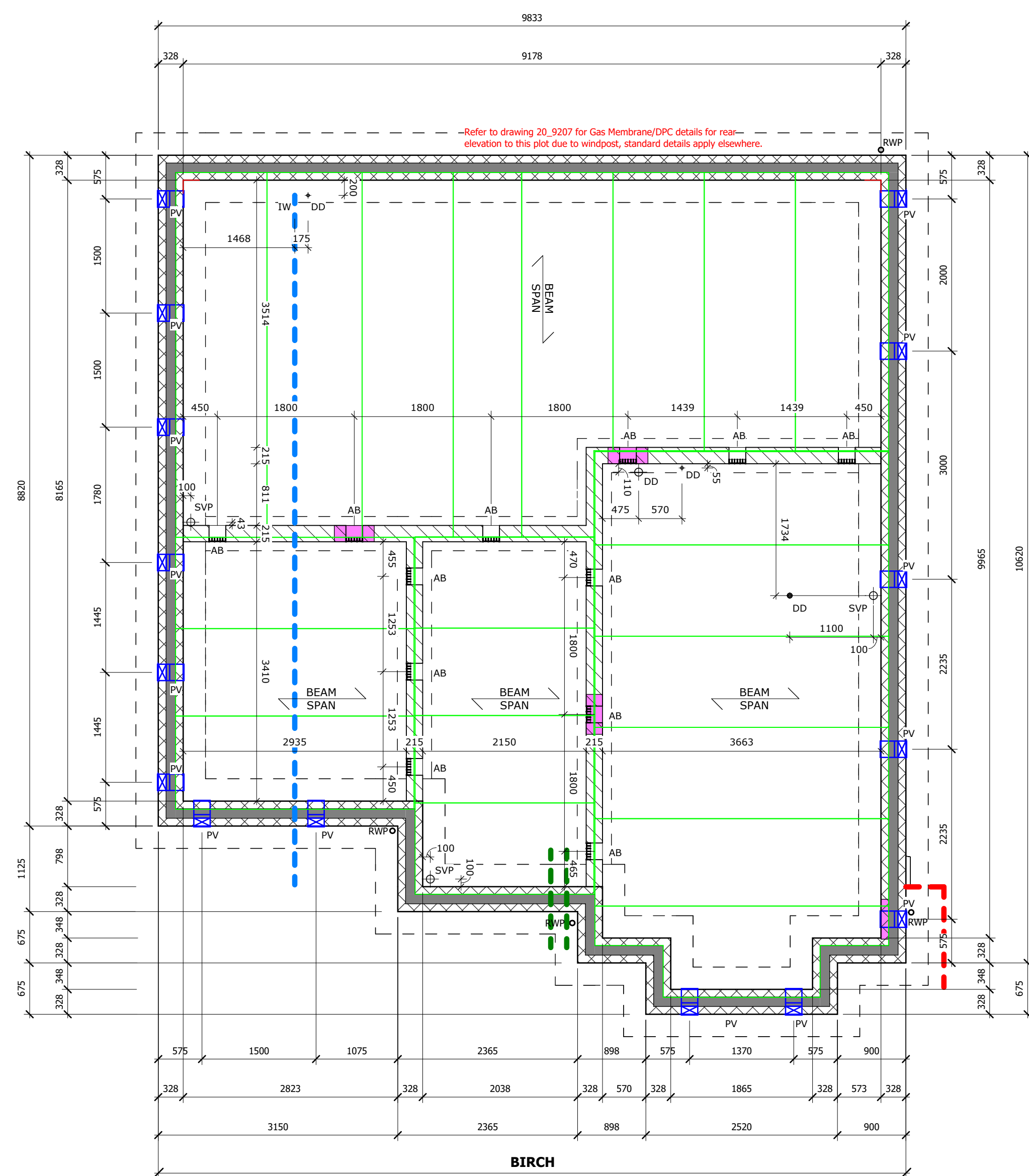
First Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)



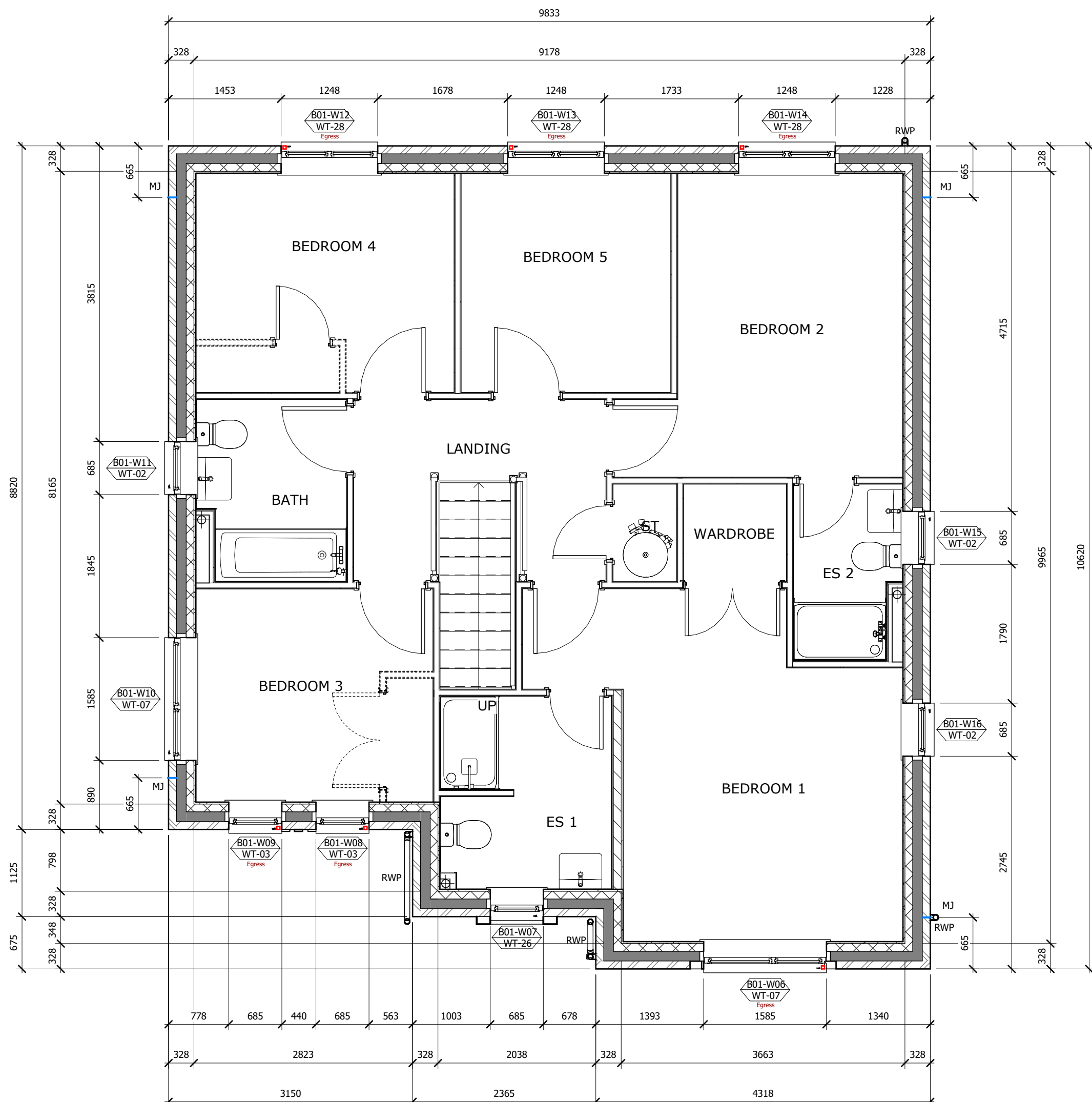
Ground Floor Plan
1 : 50



Roof Plan
1 : 50



Substructure Plan



First Floor Plan
1 : 50

[illegible]

P7	14.06.24	DW	AH	Substructure Updated
P6	13.05.24	DW	AH	Dirms added to internal masonry to set out openings
P5	02.05.24	DW	AH	Dirms to internal blockwork added.
P4	25.04.24	DW	AH	Drawings coordinated with 3rd party and engineers information.
P3	10.10.23	KK	DW	Wall Legend and spec of mDev updated.
P2	01.09.23	KK	DW	Updated to suit client comments.
P1	02.06.23	MI	DW	Floor plans added to sheets. Additional information added to substructure plan.

Rev:	Date:	Drawn:	Checked:	Description:
Suitability:				
S0	Work In Progress			
Hollin Gate, Littleborough				

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

UPPN Originator Zone Level Type Role Series/Number Revision:
HOLL-WBA-XX-XX-DR-A-20_2001 P7

Date: Drawn: Checked: Scale: @A0 Int Job No:
Nov 22 MI DW 1 : 50 4046-001

**WATSON BATTY
ARCHITECTS**

Shires House, Shires Road
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Leeds Loughborough

T: 01943 876 665
E: enquiries@watsonbatty.com
W: www.watsonbatty.com



Note: Do not Scale from this drawing. All dimensions to be checked on site

Window Schedule (Block 30)							
Mark	Type Mark	STRUCTURAL		Egress Window	Safety Glazing	Obscure Glazing	Comments
		Width	Height				
L00 - Ground Floor							

Glazing and Trickle Vent Requirements

Ground Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

First Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

Plot Mechanical Ventilation Requirements - Vent Axia Cool Box System

For detail system design refer to VENT AXIA

Key

- Air Bricks
- Went Air-to-Carbon NBR drier (with rigid ducts)
- Rain Water Downpipe
- Electric Meter Box Location
- Movement Joint Locations - (Engineers drawings takes precedence)
- ASHP Heat Exchanger, (to be located a minimum 1m from plot boundary)
- Periscope Cavity Wall Vent
- Went Air-to-Carbon NBR drier (with rigid ducts within floor void)
- SVP & Direct to Drain Connections
- Initial vent air brick adjacent to carbon storage point
- Went Air-to-Carbon NBR drier (with rigid ducts within floor void to roof vent tile)
- Incoming Water Entry Point
- Floor Span Direction (subject to sub-contractor design drawings)
- 30 minute Insulation & 15 minutes Insulation Vertical Assembly Wall Cavity Barrier
- Structural Support, refer to Engineers drawings and specification (Engineers drawings takes precedence)

General Notes

[illegible]

Risks

•	Lifting Hazard	•	Risk of Falling	•	Risk of Collapse
•	Risk of Falling Object	•	Consideration for High Level Access	•	Risk of Explosion



P8	14.06.24	DW	AH	Substructure Updated
P7	13.05.24	DW	AH	Drins added to internal masonry to set out openings
P6	02.05.24	DW	AH	Drins to internal blockwork added.
P5	25.04.24	DW	AH	Drawings coordinated with 3rd party and engineers information.
P4	17.01.24	DW	JT	Vent Area Coal Box System schedule
P3	10.10.23	KK	DW	Wall Legend and spec of dMew updated
P2	01.09.23	KK	DW	Updated to suit client comments
P1	02.06.23	MI	DW	Floor plans added to sheets. Additional information added

Rev	Date	Drawn	Checked	Description
S0				Work In Progress

Hollin Gate, Littleborough

GA Block Plans - Plot 11
Block 30

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

UPRN Originator Zone Level Type Role Series/Number Revision:

HOLL-WBA-XX-XX-DR-A-20_2011 P8

Date: **Nov 22** Drawn: **MI** Checked: **DW** Scale: **8A0** Int Job No: **1 : 50**
4046-001

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ARCHITECTS

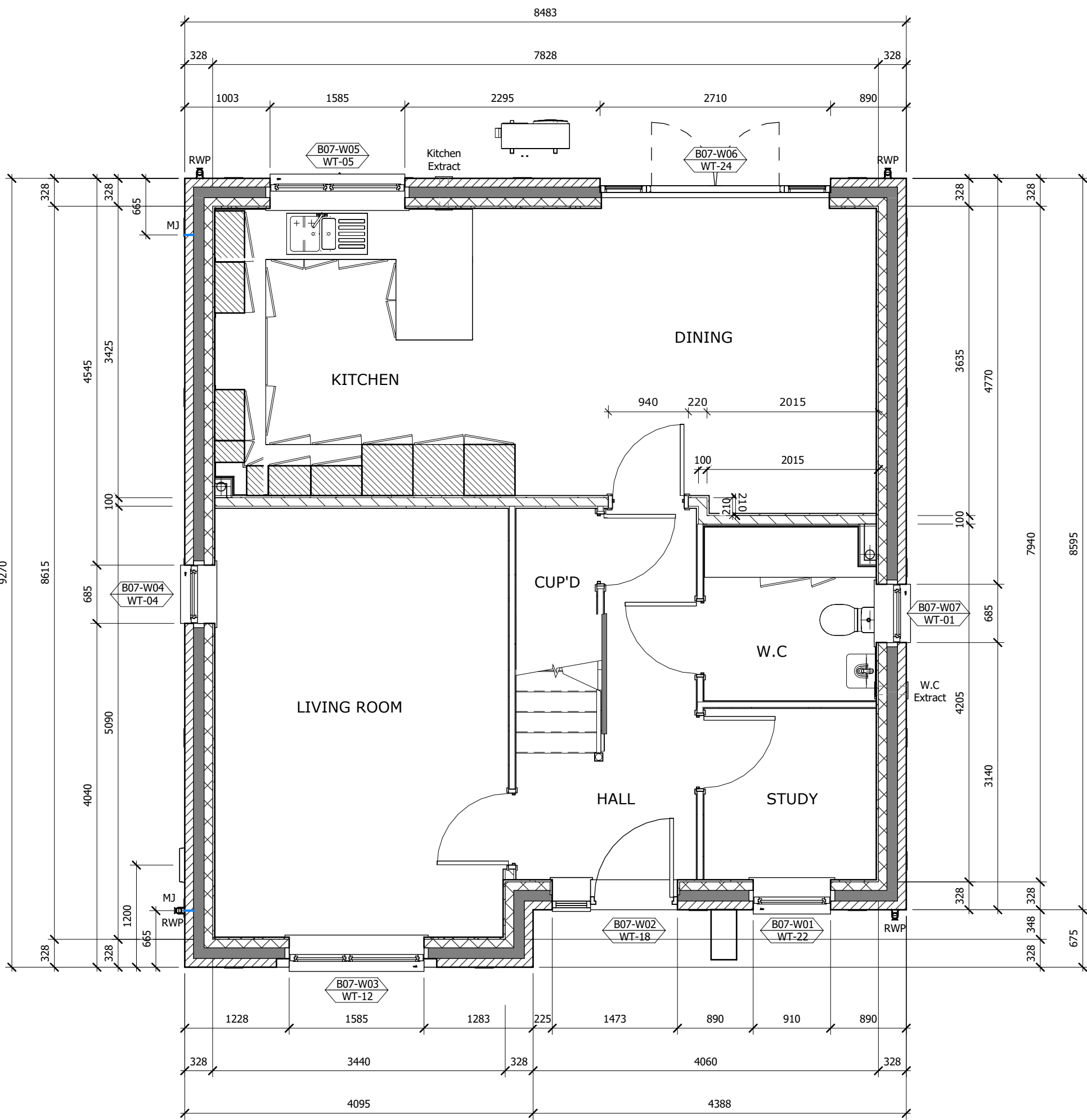
Shires House, Shires Road
Guiseley, Leeds LS20 8EU
Leeds | Loughborough

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E: enquiries@watsonbatty.com
W: www.watsonbatty.com

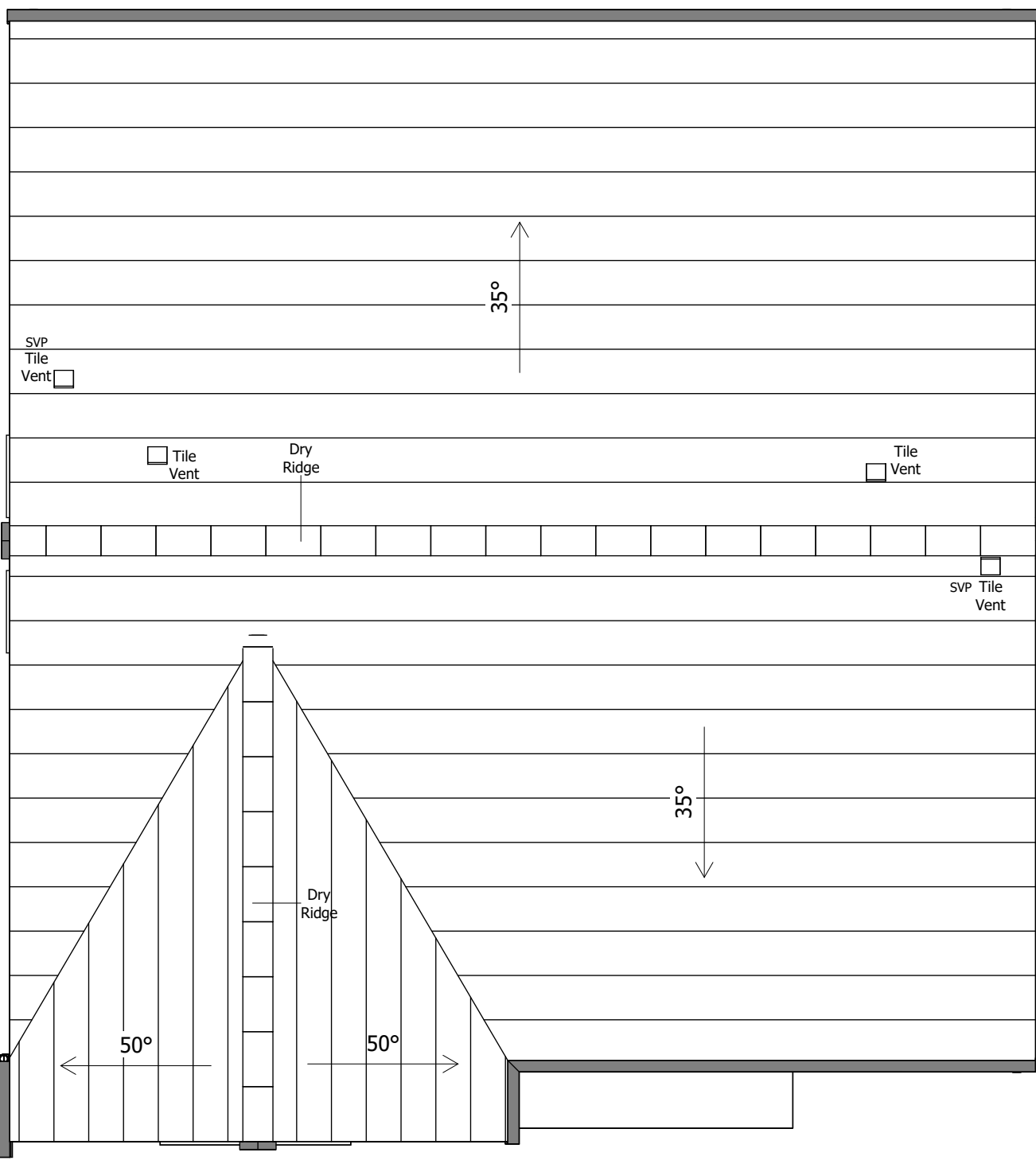
Note: Do not Scale from this drawing. All dimensions to be checked on sit

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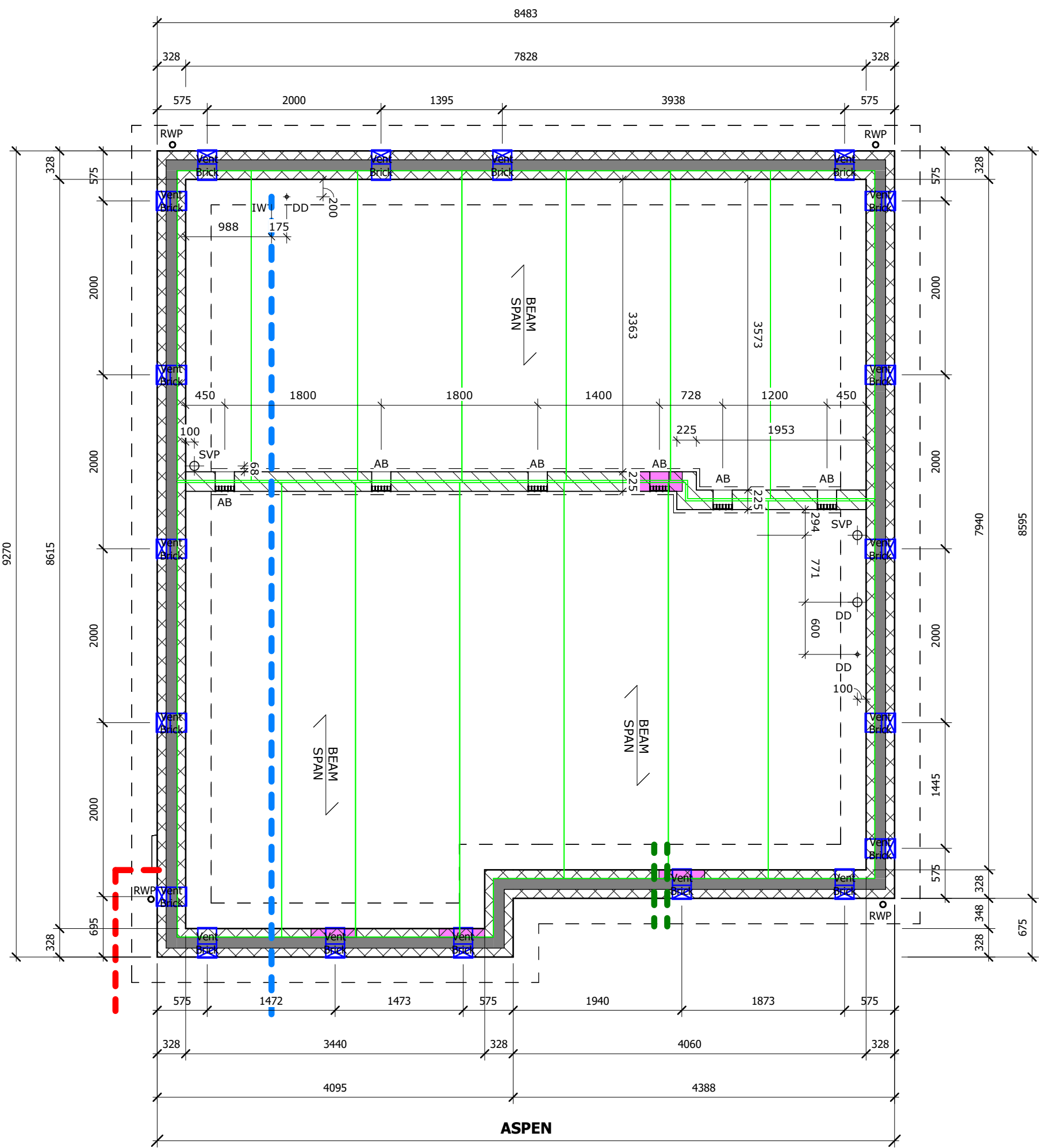
Note: Do not Scale from this drawing. All dimensions to be checked on site



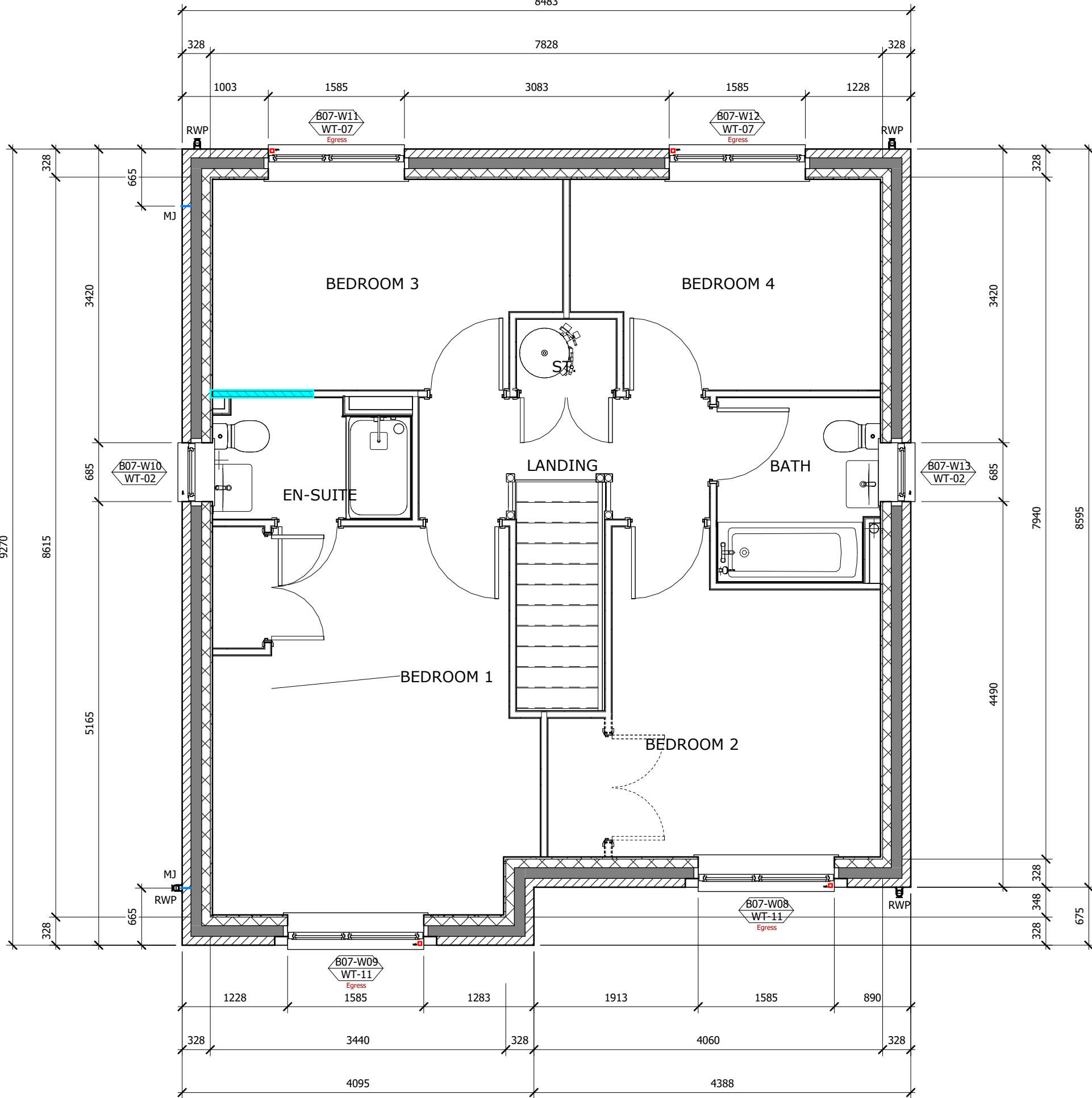
Ground Floor Plan
1 : 50



Roof Plan
1 : 50



Substructure Plan
1 : 50



First Floor Plan
1 : 50

Window Schedule (Block 7)						
Mark	Type	Mark	Width	Height	Material	Comments
100 - Ground Floor						
807-W01	WT-22	910	1210	No	No	
807-W02	WT-18	1473	2110	No	Yes	No
807-W03	WT-12	1595	1510	No	Yes	No
807-W04	WT-04	665	1510	No	Yes	Yes
807-W05	WT-05	1595	1060	No	No	No
807-W06	WT-24	2710	2110	No	Yes	No
807-W07	WT-01	665	1060	No	No	Yes
101 - First Floor						
807-W08	WT-11	1595	1360	Yes	No	No
807-W09	WT-11	1595	1360	Yes	No	No
807-W10	WT-02	665	1210	No	Yes	Yes
807-W11	WT-07	1595	1360	Yes	No	No
807-W12	WT-07	1595	1360	Yes	No	No
807-W13	WT-02	665	1210	No	No	Yes
Glazing and Trickle Vent Requirements						
Ground Floor						
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)						
First Floor						
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)						
Key						
General Notes						
Risks						

PR	14.05.24	DW	AH	Substructure Updated
PT	14.05.24	DW	AH	Levels shown to architect where required.
PS	13.05.24	DW	AH	Drawings added to internal masonry to set out openings
PS	02.05.24	DW	AH	Drawings added to internal masonry to set out openings
PS	02.05.24	DW	AH	Drawings added to internal masonry to set out openings
PS	23.04.24	DW	AH	Drawings coordinated with 3rd party and engineers information.
PT	18.03.23	KR	DW	Wall Legend and spec of other updated.
PT	01.09.23	KR	DW	Updated to add client comments.
PT	02.06.23	MS	DW	Floor plans added to sheets. Additional information added to substructure plans.

Rev	Date	Drawn	Checked	Description
S0				Work In Progress

Hollin Gate, Littleborough

GA Block Plans - Plot 29
Block 7

Location:
Hollingworth Road
Littleborough

Clients:
Countryside Partnerships

UPRIS	Originator	Date	Level	Type	Scale	Sheet/Number	Revision
HOLL-WBA-XX-XX-DR-A-20_2026							P8
Date:	Nov 22	Drawn:	MI	Checked:	DW	Scale:	1 : 50
Int Job No:							4046-001

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Future Built

External Door Schedule (Block 14)						
Door Ref	Type Mark	STRUCTURAL		Door Panel - Colour	Required Clear Width	Comments
		Width	Height			
B14-ED01	EDT-04	1023	2110	Dark Grey		

Window Schedule (Block 14)

Unit	Type	Th	W	Tu	Th	F	Sa	Su	Comments
		Structural	Weld	Inspect	Aggrs	Safety	Obstuc	Window	Gang
U1 - Ground Floor									
B1-W01	WT-08	1585	1550	No	Yes	No	Yes	No	
B1-W02	WT-18	1473	1110	No	Yes	No	Yes	No	
B1-W03	WT-08	1550	1550	No	Yes	No	Yes	No	
B1-W04	WT-09	1645	1645	No	Yes	No	Yes	No	
B1-W05	WT-19	1473	1110	No	Yes	No	Yes	No	
B1-W06	WT-08	1550	1550	No	Yes	No	Yes	No	
B1-W07	WT-09	1558	1560	No	No	No	No	No	
B1-W08	WT-12	1585	1585	No	No	No	No	No	
U1 - First Floor									
B1-W09	WT-02	685	1210	No	No	No	Yes	No	
B1-W10	WT-02	685	1210	No	No	No	Yes	No	
B1-W11	WT-02	685	1210	No	No	No	Yes	No	
B1-W12	WT-02	685	1210	No	No	No	Yes	No	
B1-W13	WT-02	685	1210	No	No	No	Yes	No	
B1-W14	WT-02	685	1210	No	No	No	Yes	No	
B1-W15	WT-02	685	1210	No	No	No	Yes	No	
B1-W16	WT-11	1585	1585	No	No	No	No	No	
B1-W17	WT-03	685	2360	Yes	No	No	No	No	
B1-W18	WT-11	1585	1585	No	No	No	No	No	

Glazing and Trickle Vent Requirements

Ground Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

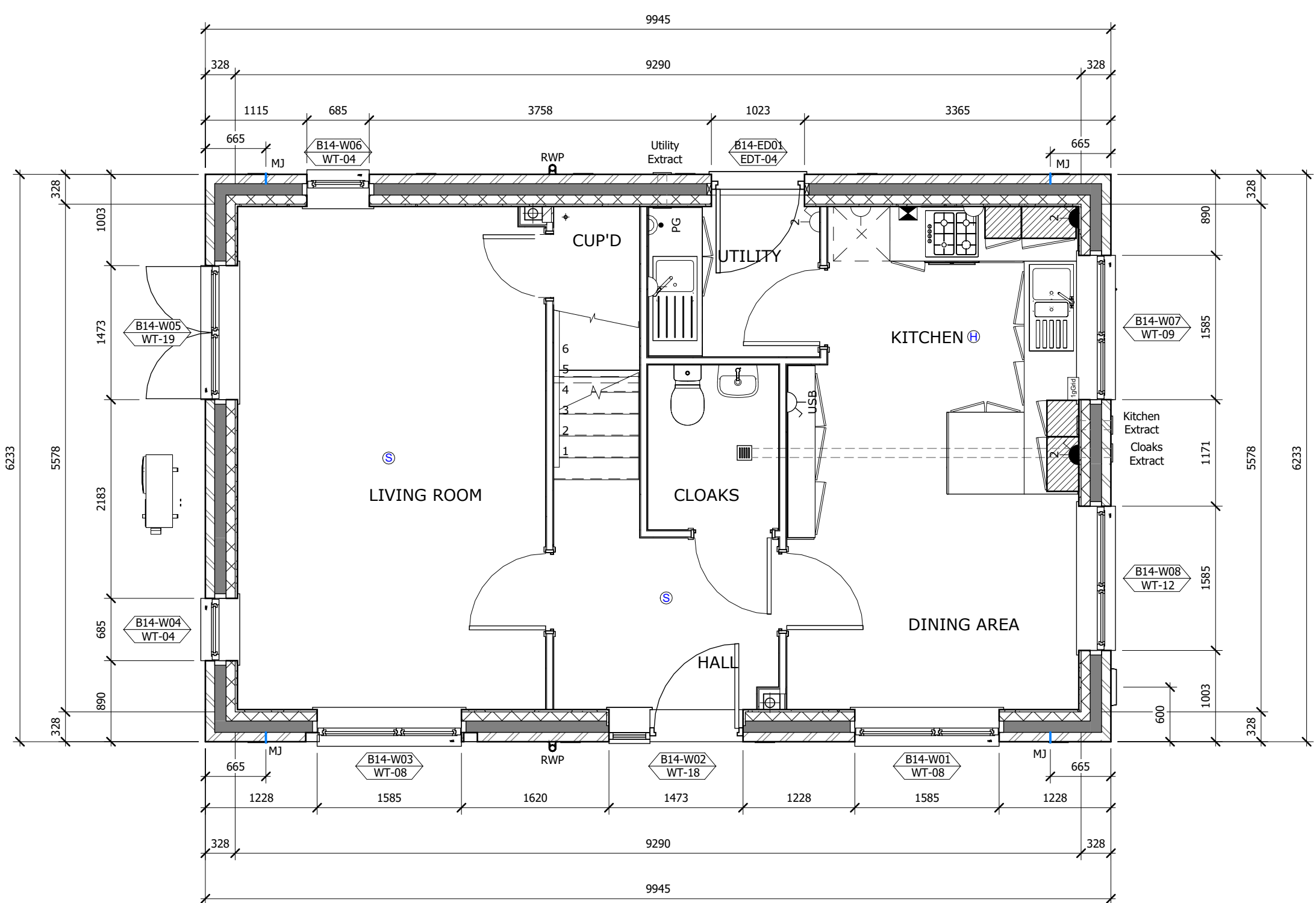
First Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

Plot Mechanical Ventilation Requirements - Vent Axia Cool Box System

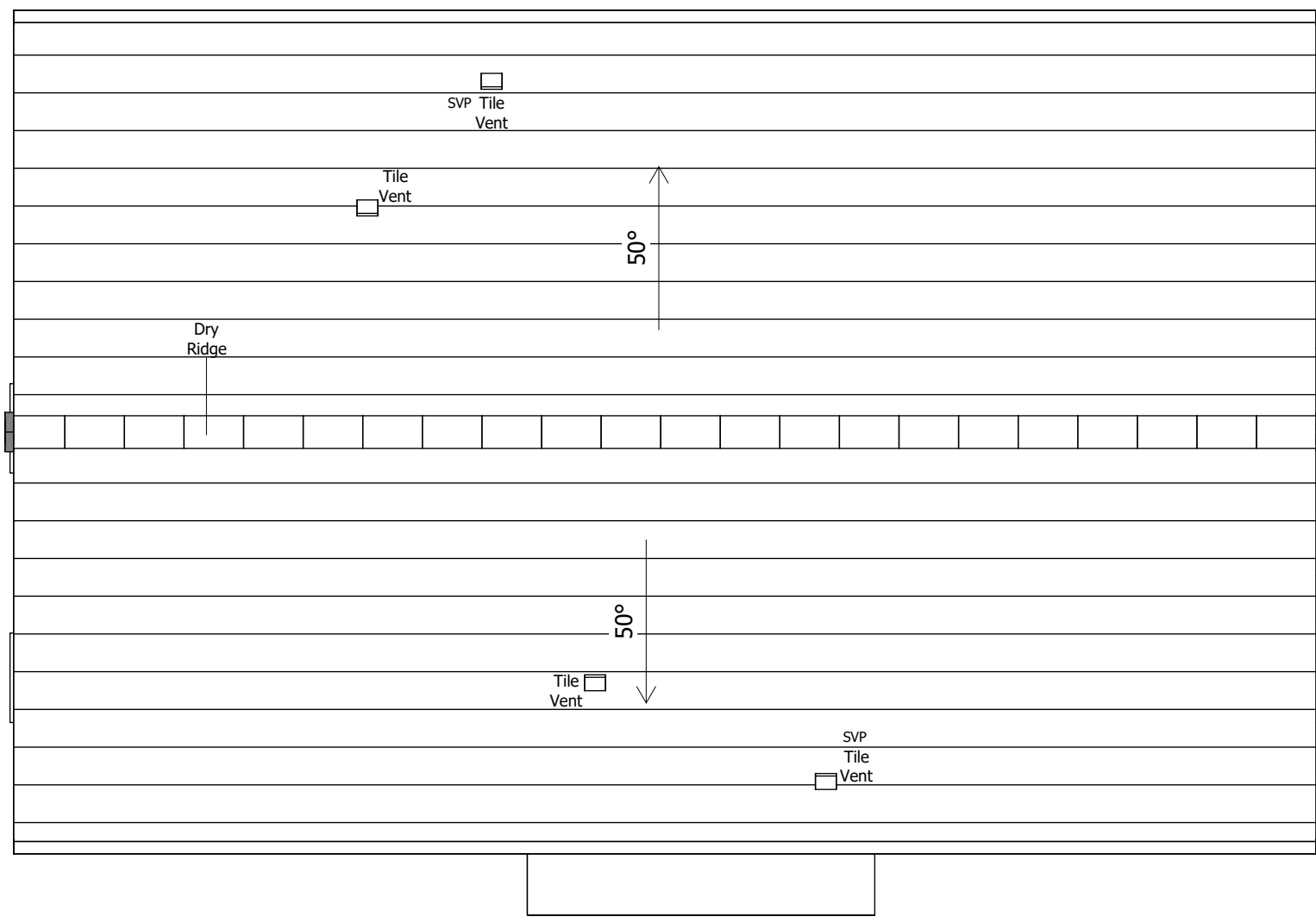
For detail system design refer to VENT AXIA.

For detail system

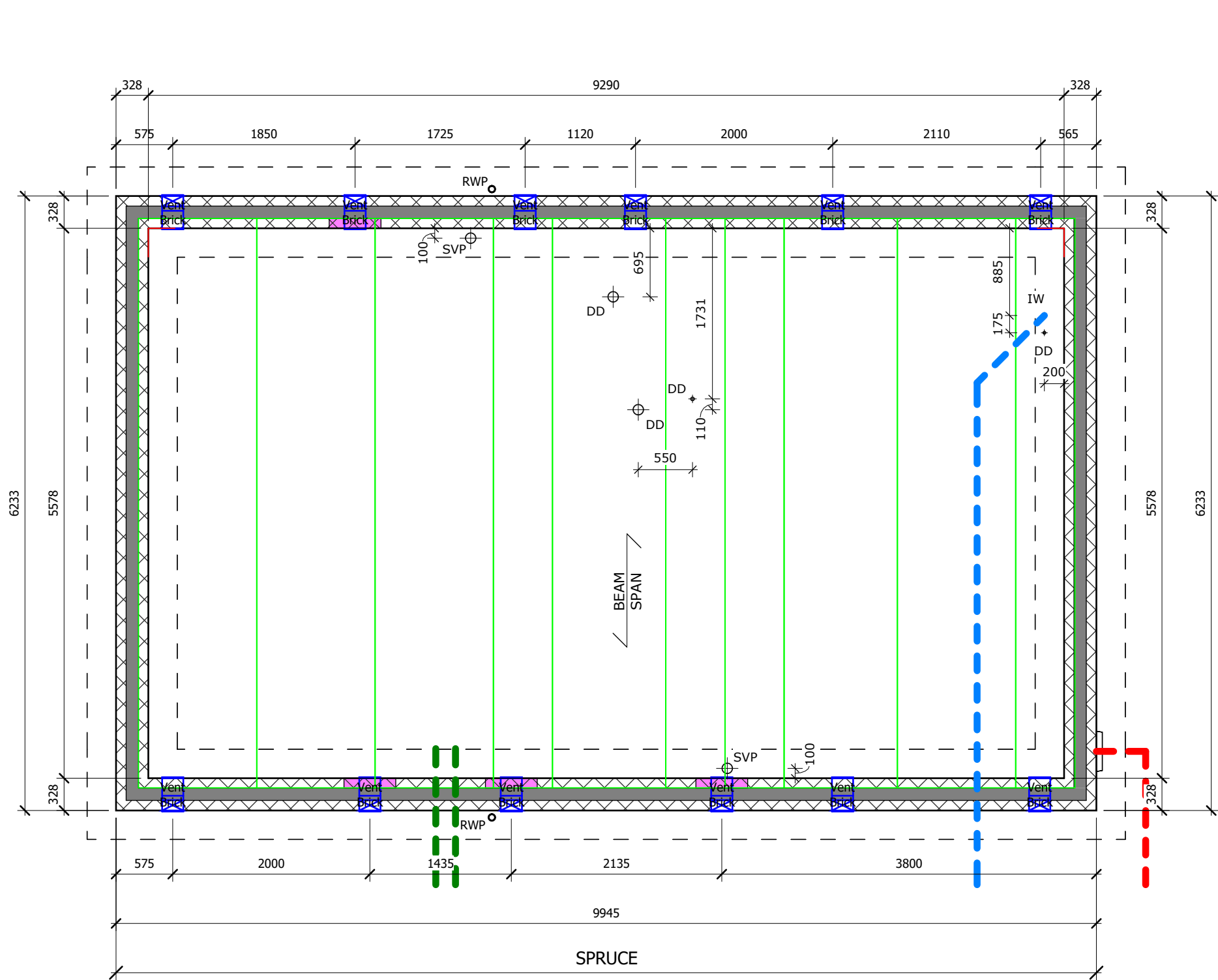
For detail system design refer to VENT AXIA.



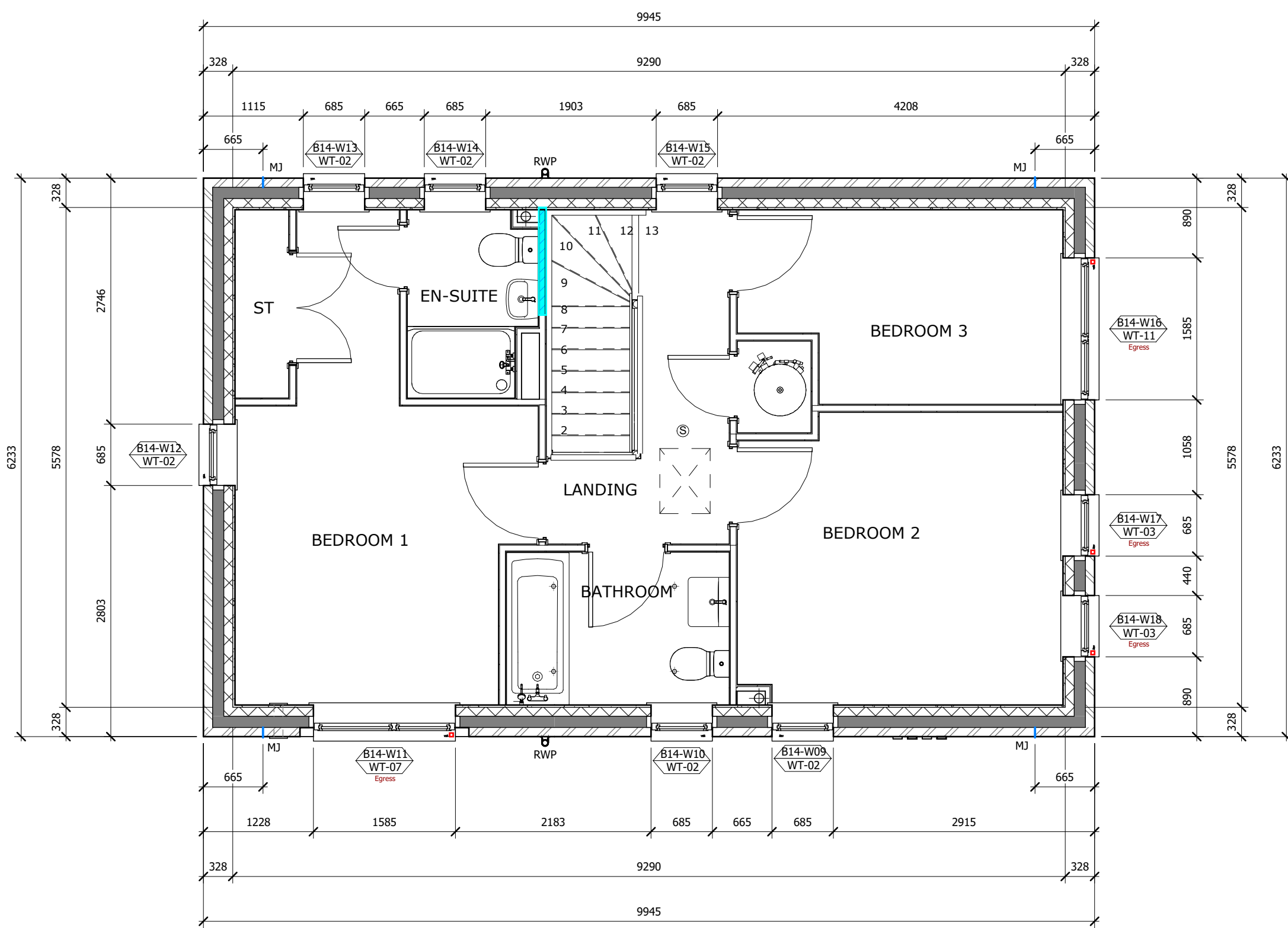
Ground Floor Plan
1 : 50



Roof Plan
1 : 50



Substructure Plan

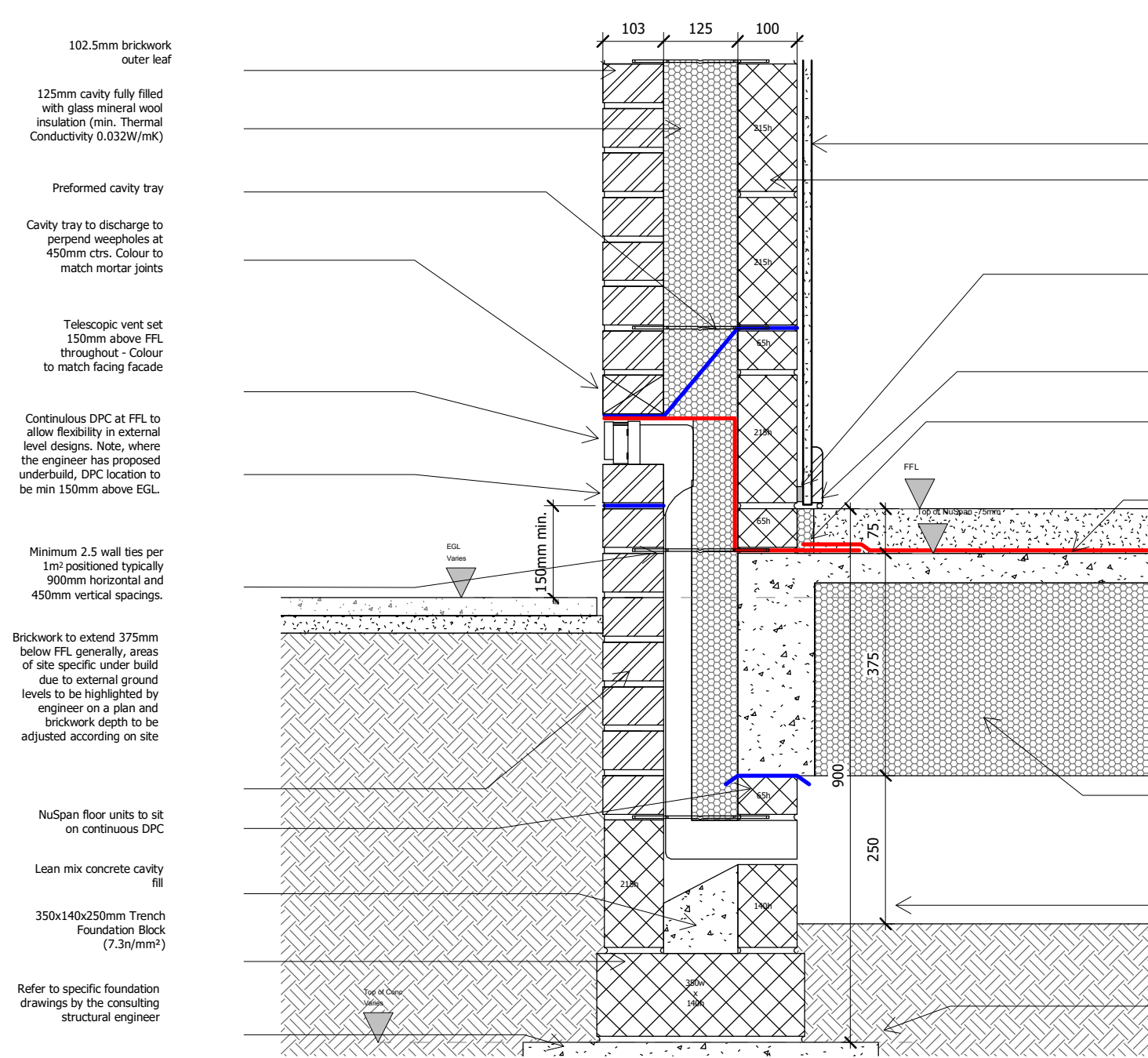


First Floor Plan
1 : 50

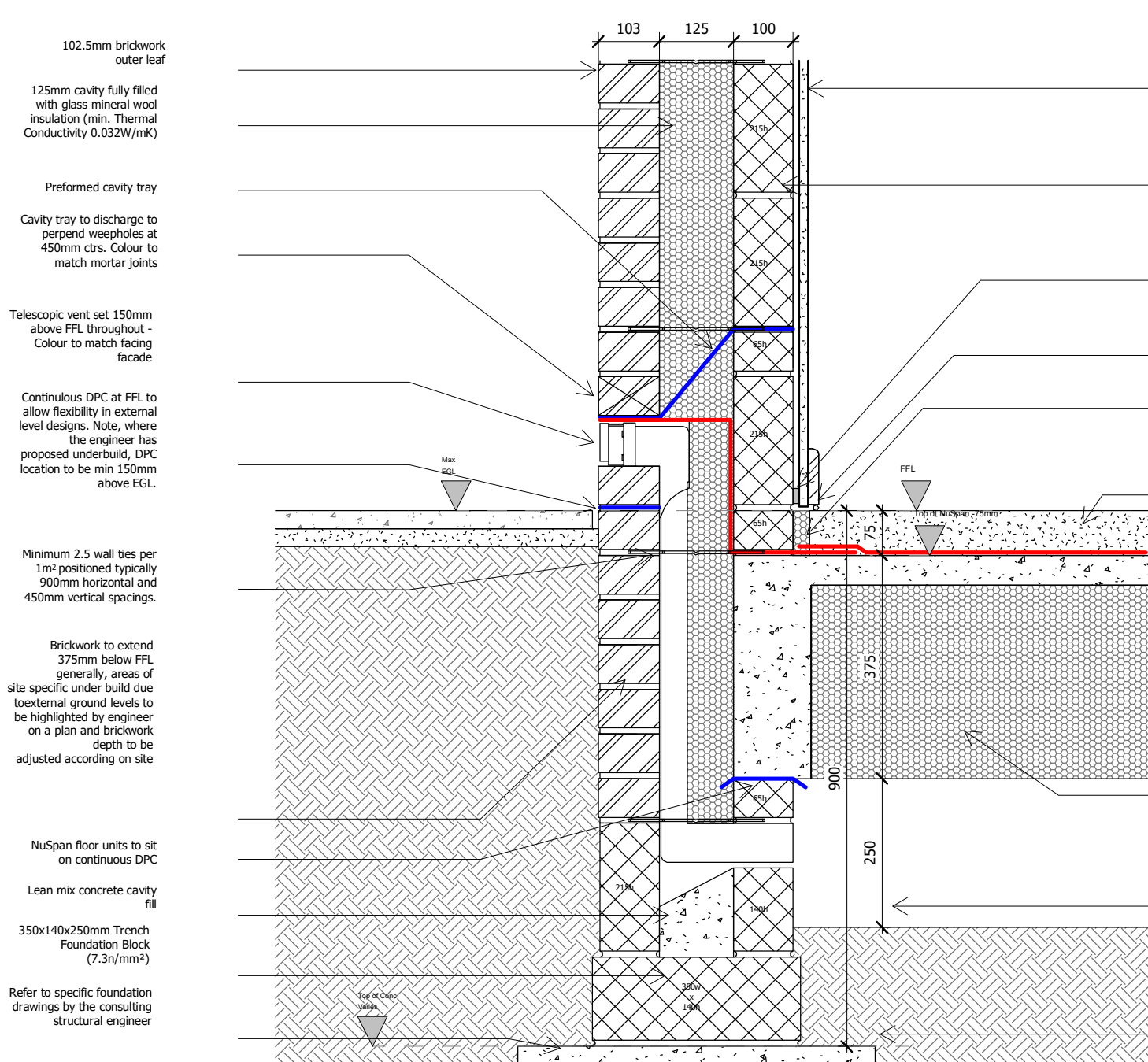
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P5	14.06.24	DW	AH	Substructure updated
P5	23.04.24	DW	AH	Drawing coordinated with 3rd party and engineers
P5	23.04.24	DW	IT	Well done! Good! Ben Sabin schedule
P2	10.12.23	KC	AW	Well done! and spot of comments
P2	09.09.23	KC	DW	Well done! and spec of comments
P1	02.06.23	KC	DW	There plans added to sheets. Additional information added to substructure plans.

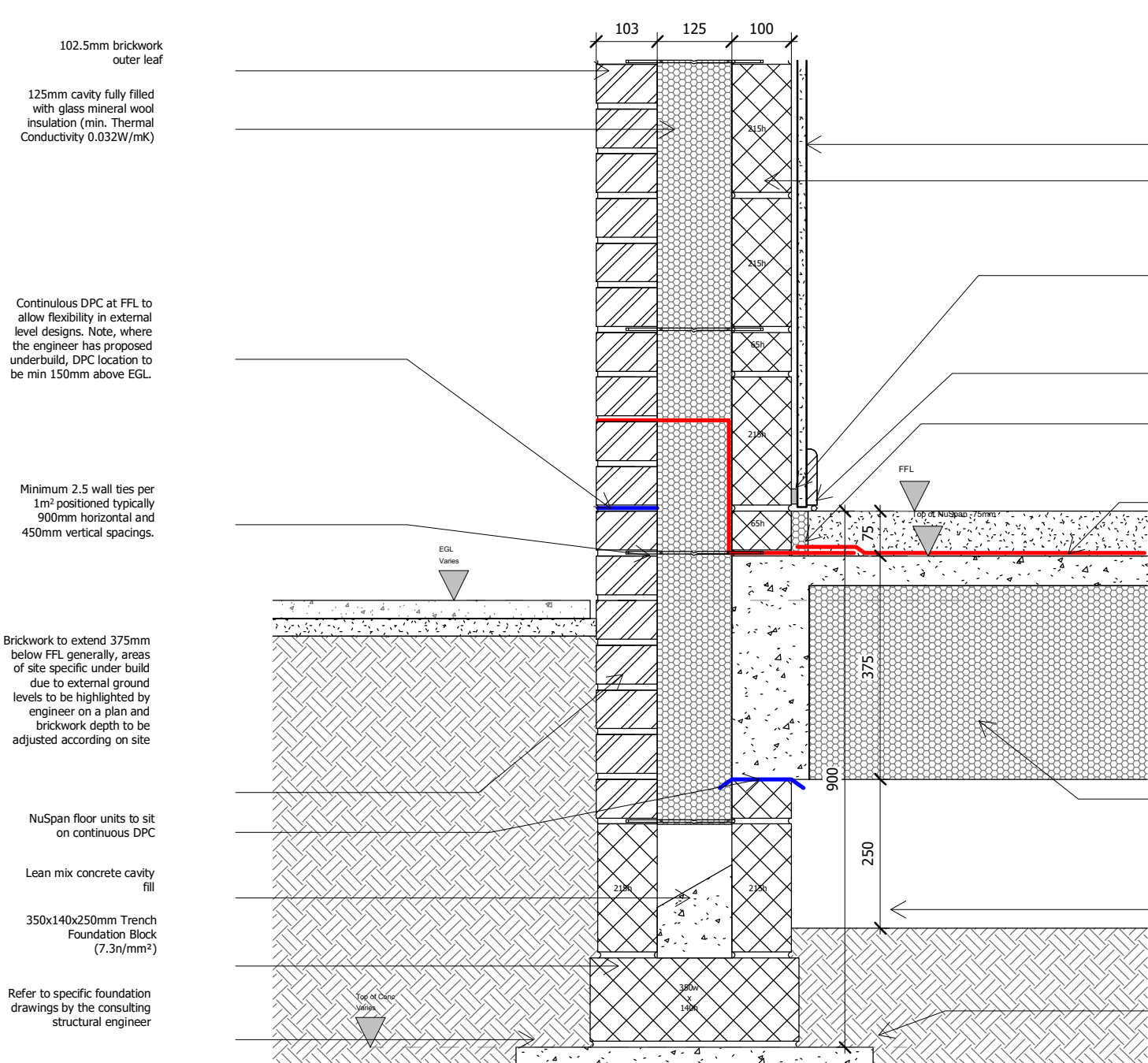
New:	☐	Drawn:	☒	Checked:	☐	Description:	
S0 Work In Progress							
Hollin Gate, Littleborough							
GA Block Plans - Plot 43							
Block 14							
Location: Hollingworth Road Littleborough							
Client: Countrystyle Partnerships							
Project Name: HOLL-WBA-XX-XX-DR-A-20_2038 P6							
Start Nov 22	Drawn DM	Checked DW	Scale 1:50	Int Job No 4046-001			
WATSON BATTY ARCHITECTS							
Shires House, Shires Road Gusleyfield, Leeds LS20 8EU Leeds Loughborough							
T: 01943 866 665 E: enquiries@watsonbatty.com W: www.watsonbatty.com							



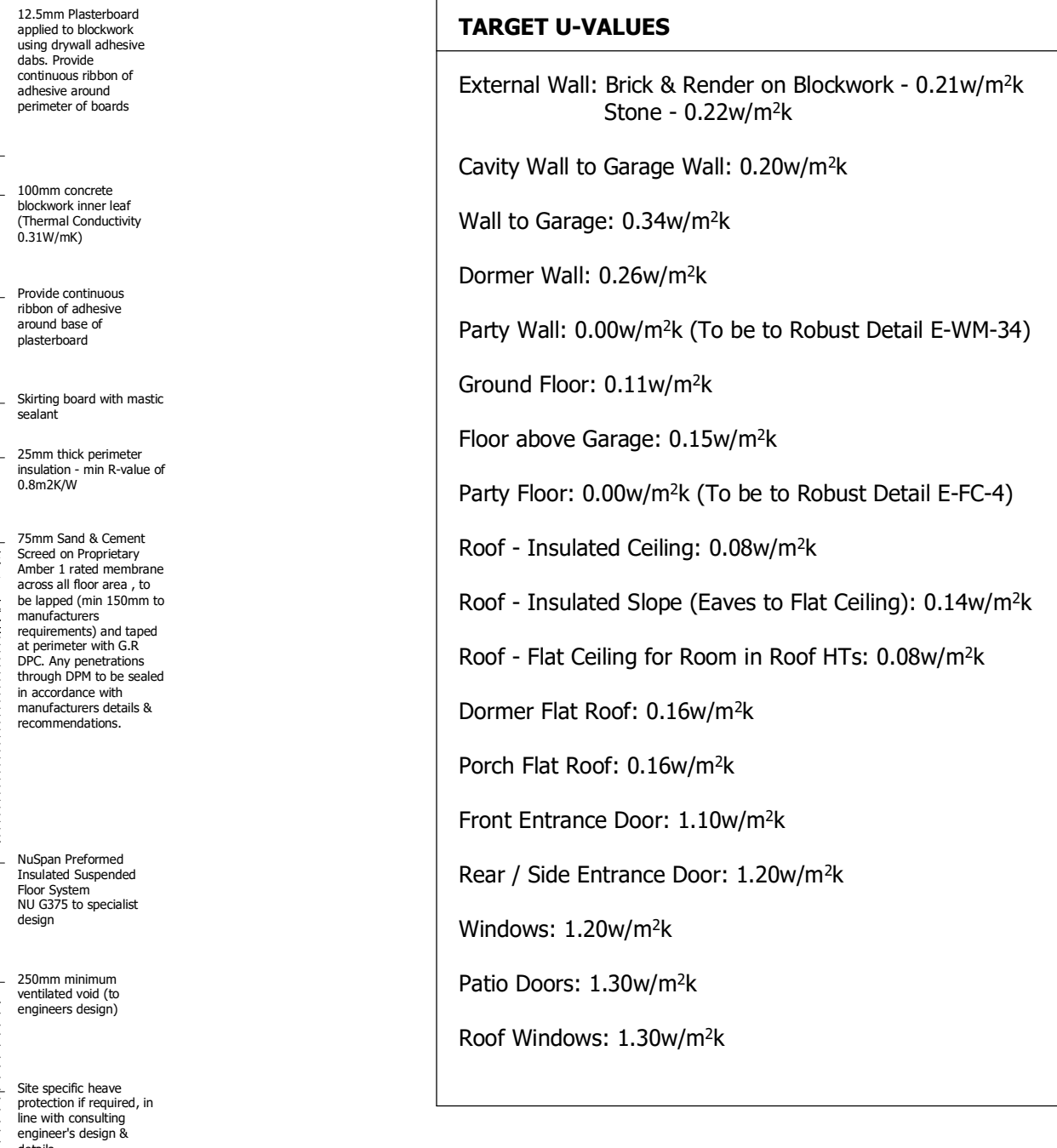
Brick External Wall / Ground Floor Junction
External Ground Level -150



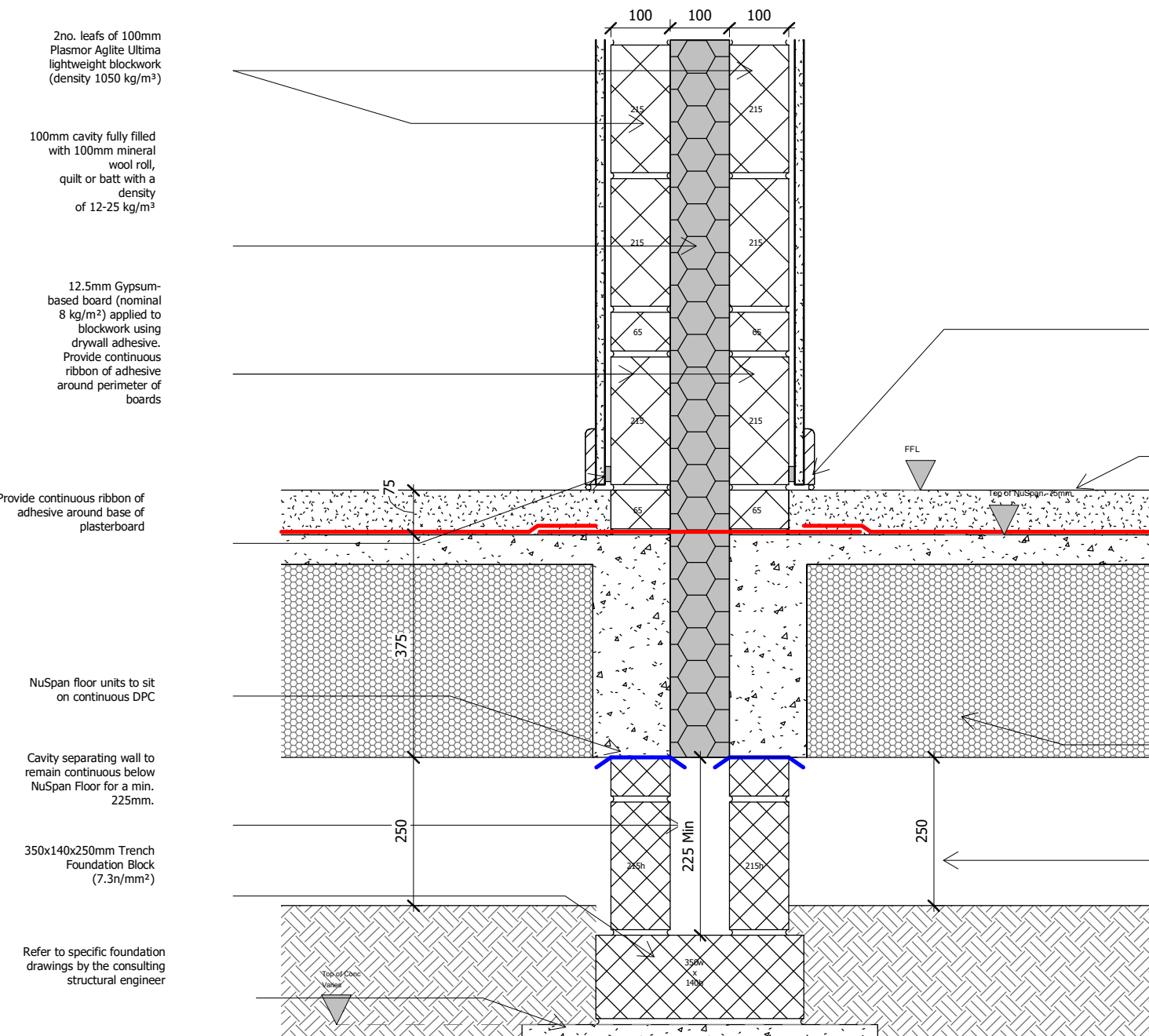
Brick External Wall / Ground Floor Junction
Max External Ground Level



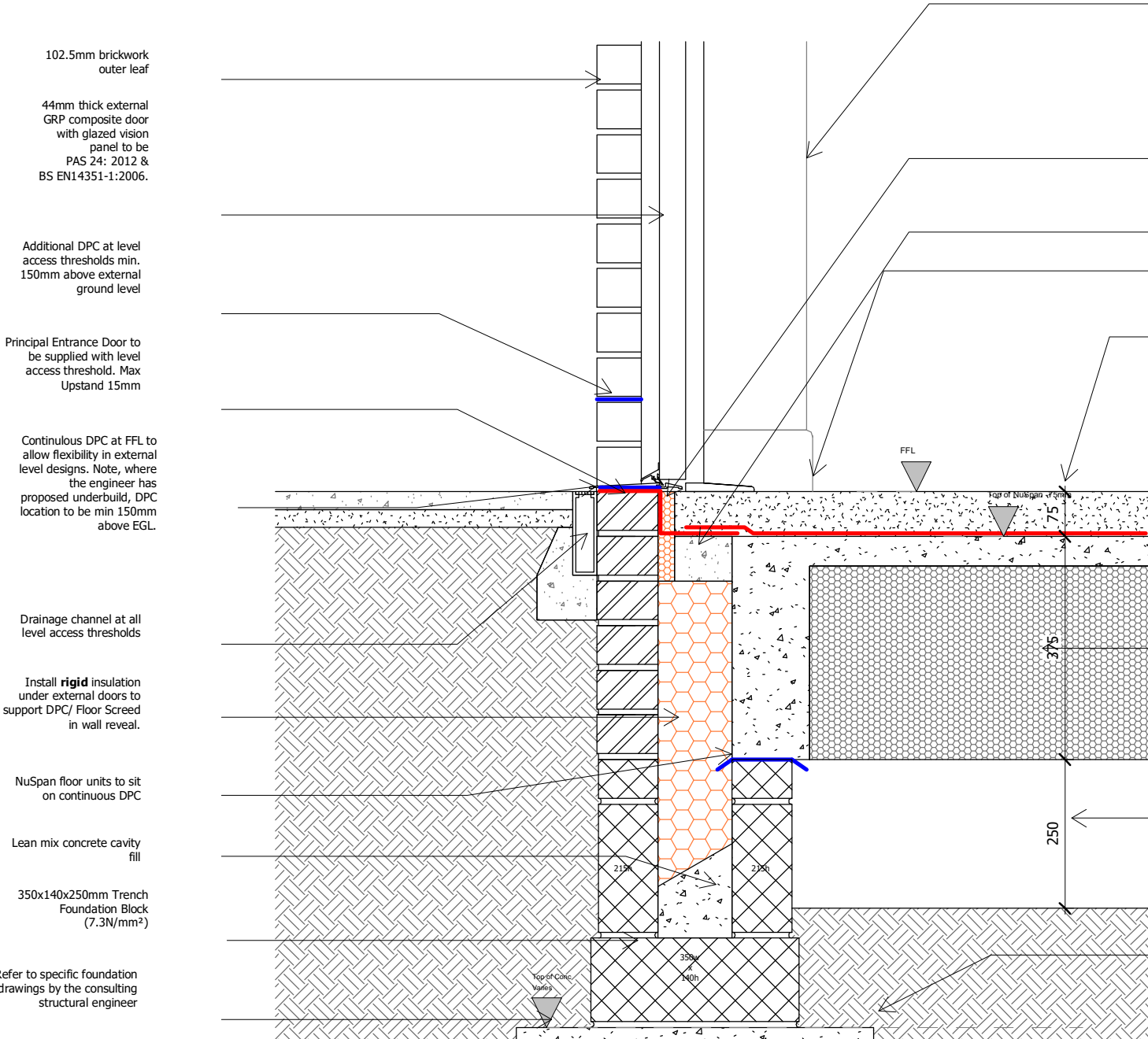
Brick External Wall / Ground Floor Junction
External Ground Wall Level -150



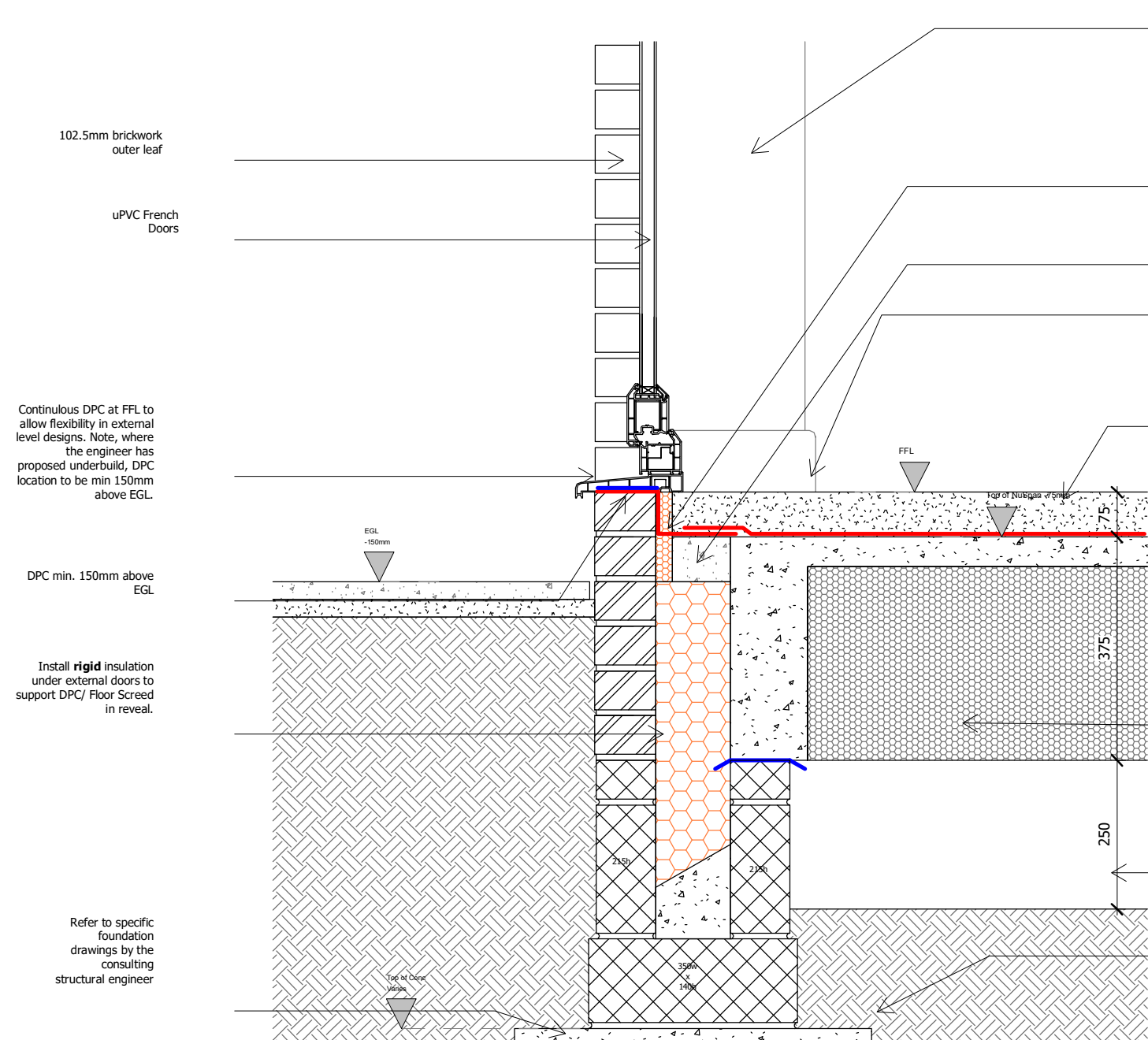
TARGET U-VALUES
External Wall: Brick & Render on Blockwork - 0.21w/m²k Stone - 0.22w/m²k
Cavity Wall to Garage Wall: 0.20w/m²k
Wall to Garage: 0.34w/m²k
Dormer Wall: 0.26w/m²k
Party Wall: 0.00w/m²k (To be to Robust Detail E-WM-34)
Ground Floor: 0.11w/m²k
Floor above Garage: 0.15w/m²k
Party Floor: 0.00w/m²k (To be to Robust Detail E-FC-4)
Roof - Insulated Ceiling: 0.08w/m²k
Roof - Insulated Slope (Eaves to Flat Ceiling): 0.14w/m²k
Roof - Flat Ceiling for Room in Roof HTs: 0.08w/m²k
Dormer Flat Roof: 0.16w/m²k
Porch Flat Roof: 0.16w/m²k
Front Entrance Door: 1.10w/m²k
Rear / Side Entrance Door: 1.20w/m²k
Windows: 1.20w/m²k
Patio Doors: 1.30w/m²k
Roof Windows: 1.30w/m²k



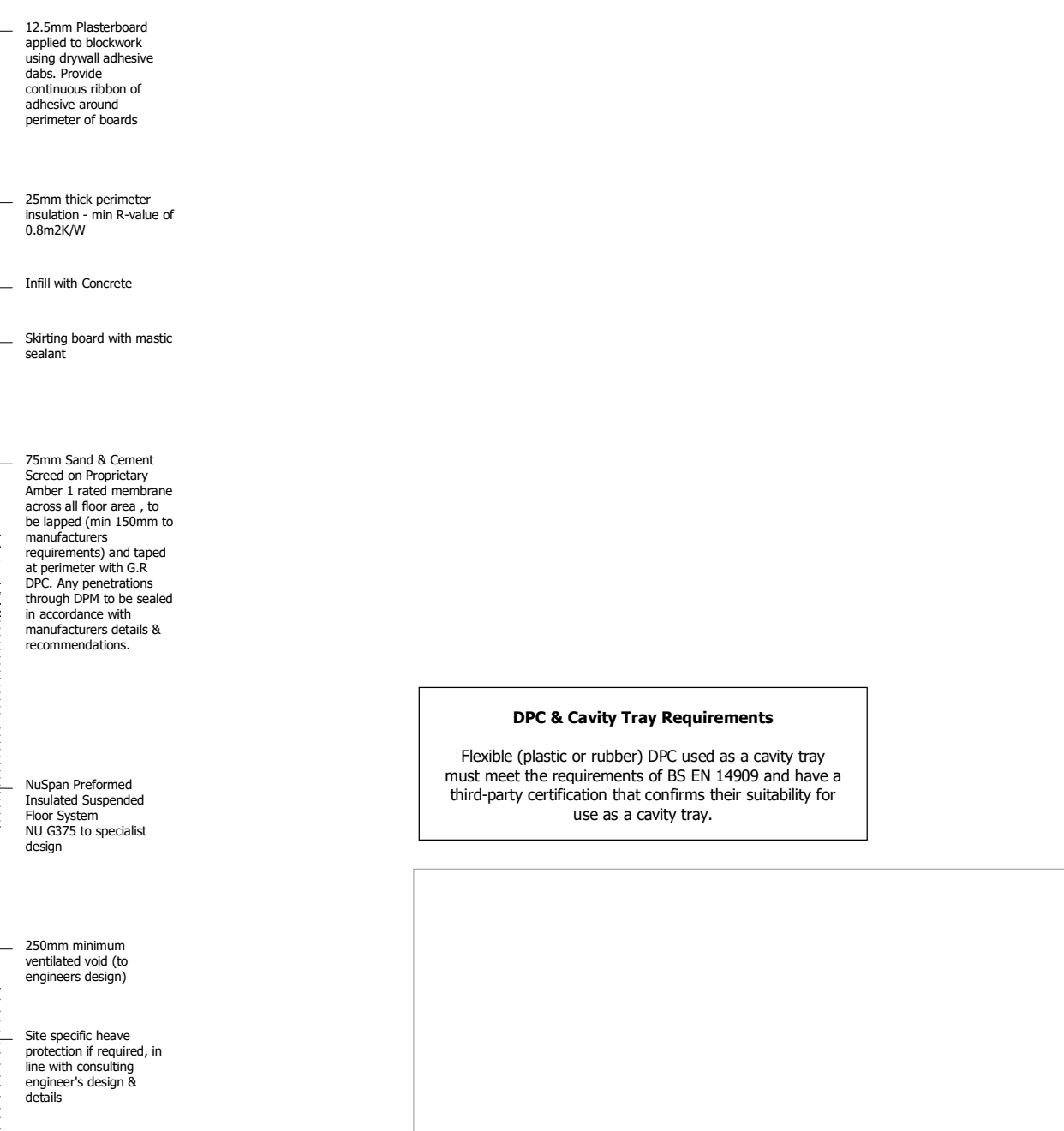
Separating Wall / Ground Floor Junction
Robust Detail E-WM-34



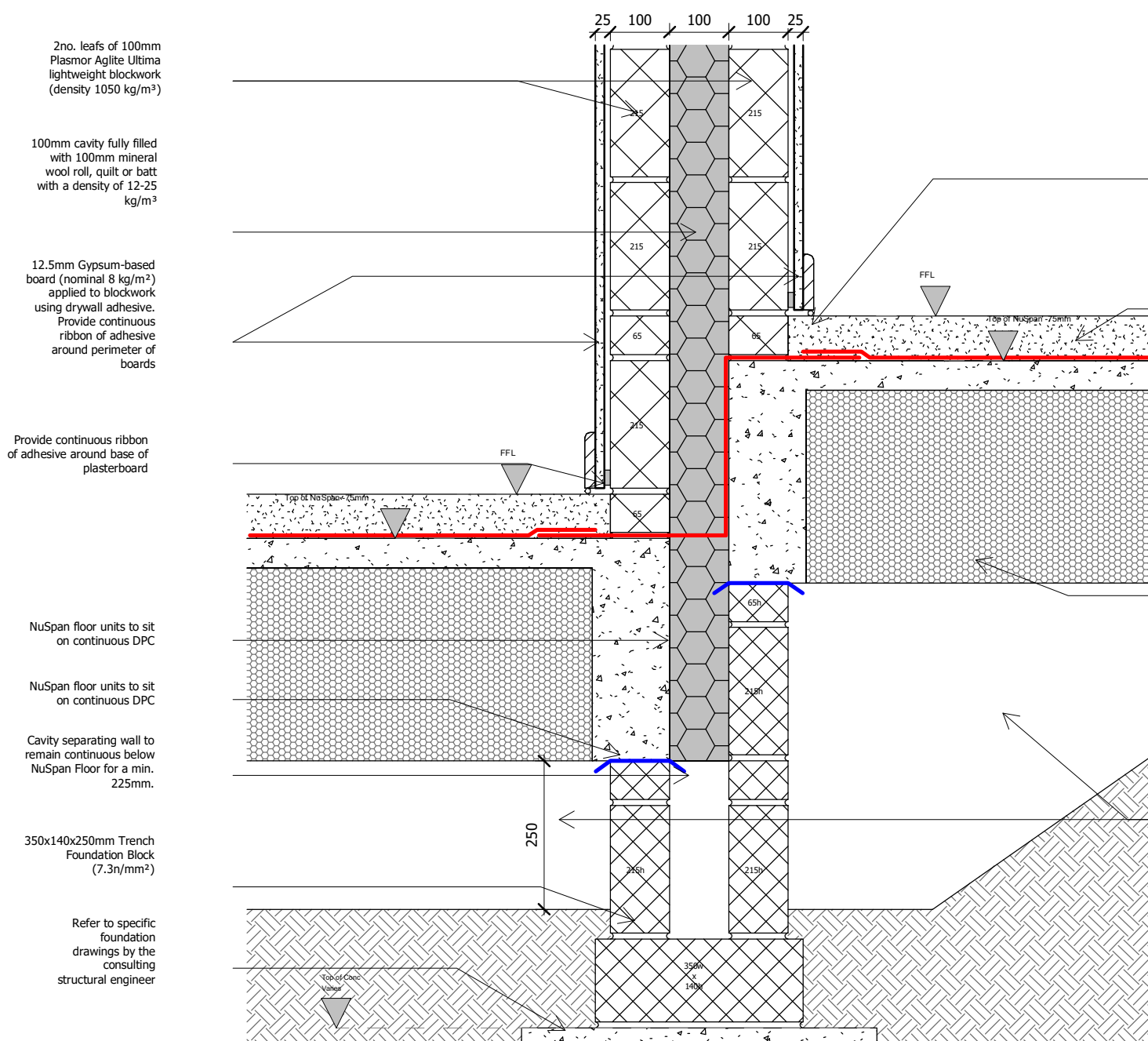
Brick External Wall / Ground Floor Threshold Junction
Level Access Principle Entrance Doors



Brick External Wall / Ground Floor Threshold Junction
Patio Doors



DPC & Cavity Tray Requirements
Flexible (plastic or rubber) DPC used as a cavity tray must meet the requirements of BS EN 14909 and have a third-party certification that confirms their suitability for use as a cavity tray.



Typical Separating Wall / Stepped Ground Floor Junction
Robust Detail - E-WM-34

P4	17.11.23	DW	AH	Revised following client comments
P3	08.11.23	DW	AH	TOC/FLL updated to 900mm
P2	09.10.23	DW	AH	Revised following client comments
P1	29.06.23	DW	RJ	Extra details added

Rev:	Date:	Drawn:	Checked:	Description:
S0				Work In Progress

Hollin Gate, Littleborough

Assembly Details - Brick - Sheet 1

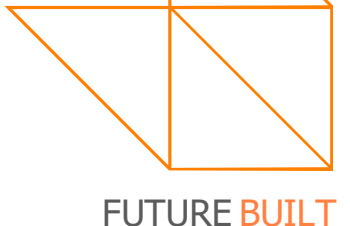
Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

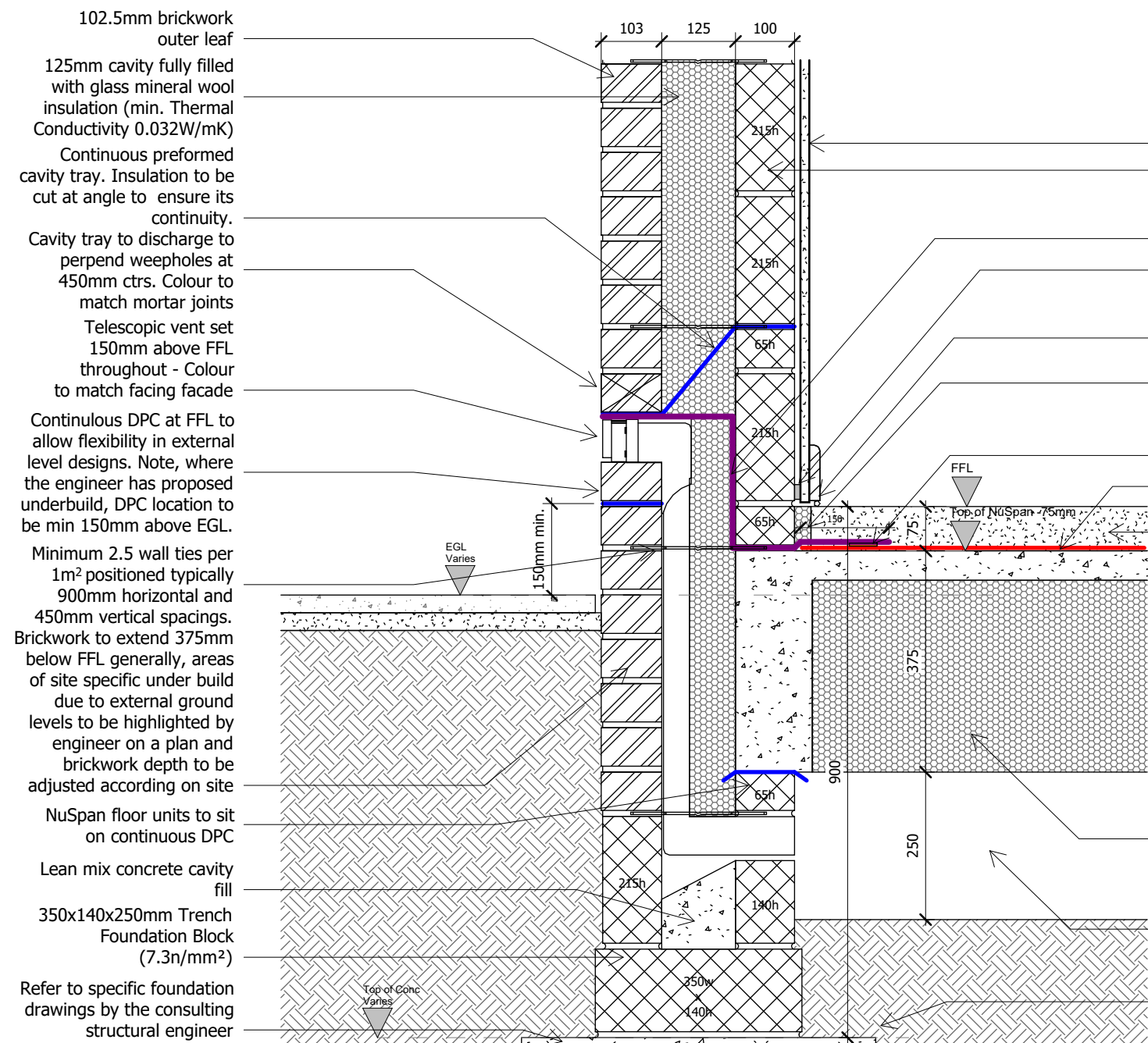
UPRN	Originator	Zone	Level	Type	Role	Series/Number	Revision:
HOLL-WBA-XX-XX-DR-A-20_9001							P4
Date:	Drawn:	Checked:	Scale:	Int Job No:			
May 23	WMB	RJ	As indicated	4046-001			

WATSON BATTY ARCHITECTS

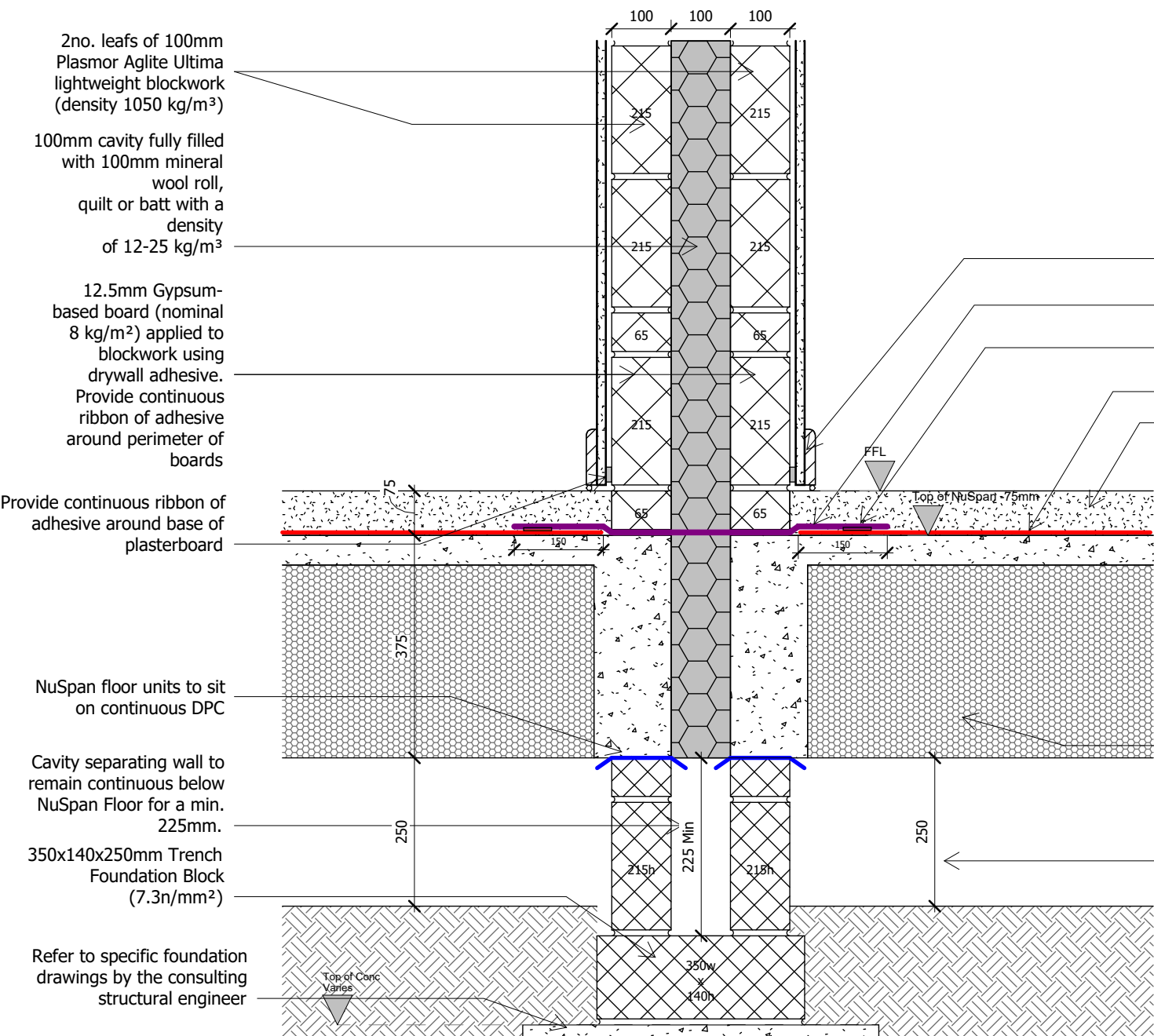
Shires House, Shires Road
Guiseley, Leeds LS20 8EU
Leeds | Loughborough
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E: enquiries@watsonbatty.com
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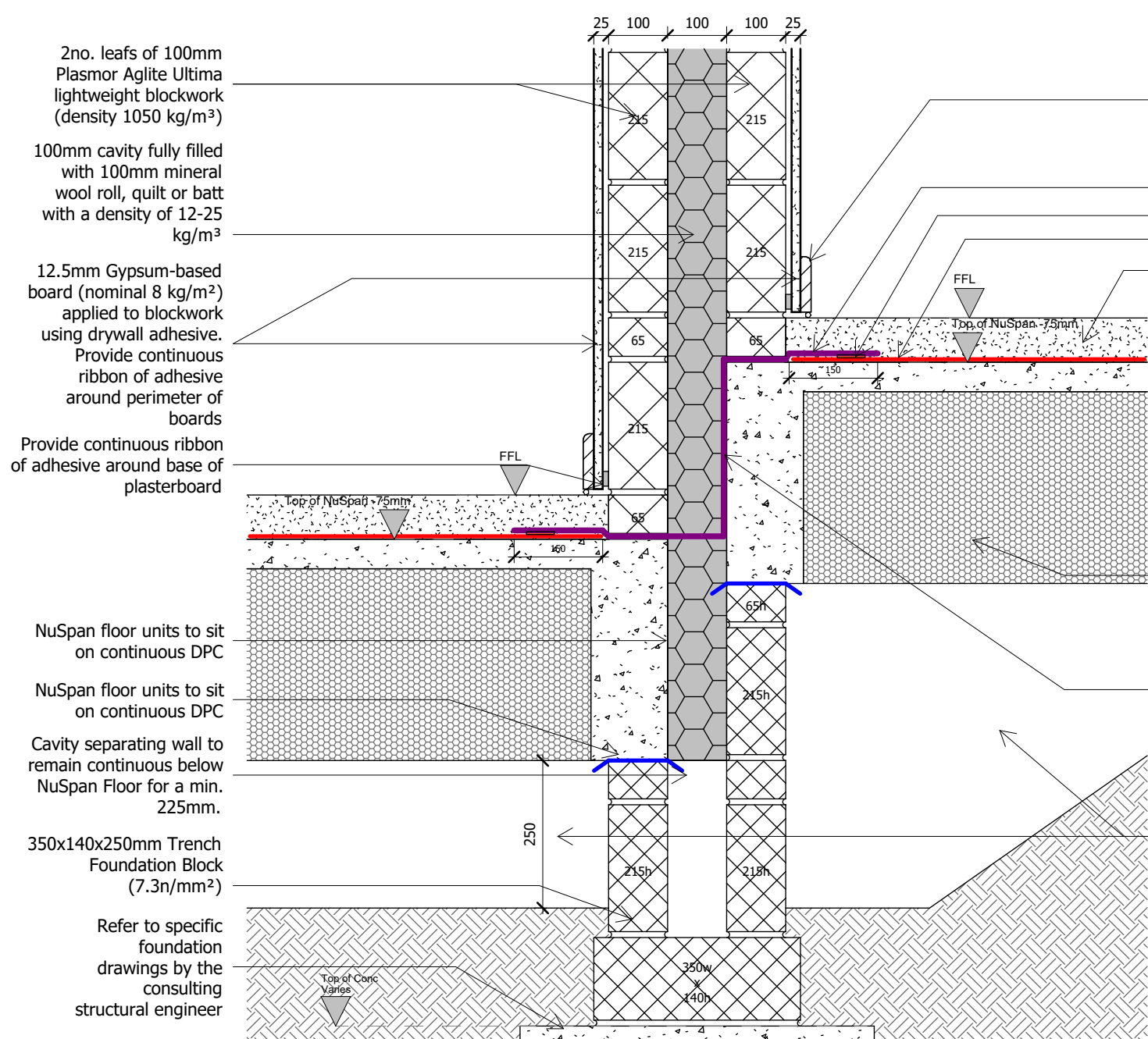
Note: Do not Scale from this drawing. All dimensions to be checked on site



Brick External Wall / Ground Floor Junction
External Ground Level -150



Separating Wall / Ground Floor Junction
Robust Detail E-WM-34



Typical Separating Wall / Stepped Ground Floor Junction
Robust Detail - E-WM-34

12.5mm Plasterboard applied to blockwork using drywall adhesive dabs. Provide continuous ribbon of adhesive around perimeter of boards

100mm concrete blockwork inner leaf (Thermal Conductivity 0.31W/mK)

Juta GP DPC or similar.

Provide continuous ribbon of adhesive around base of plasterboard

Skirting board with mastic sealant

25mm thick perimeter insulation - min R-value of 0.8m2K/W

Juta GP Tape or similar.

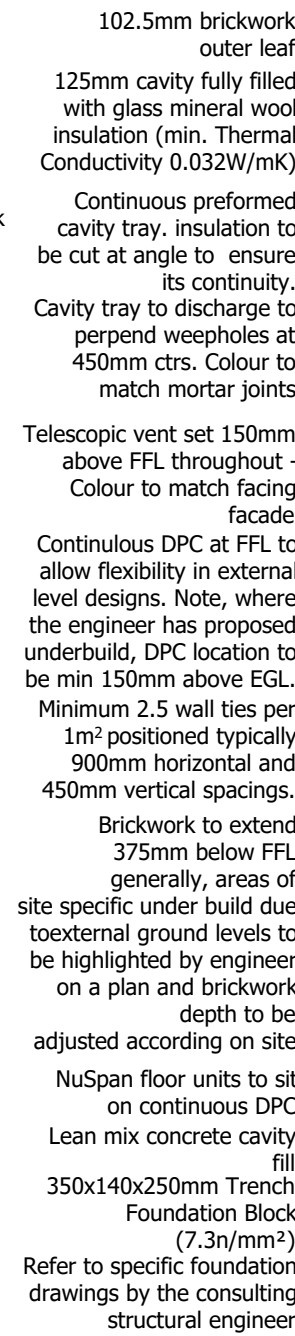
Juta GP 1 or similar.

75mm Sand & Cement Screed on Proprietary CS2 rated Juta GP1 or similar membrane across all floor area, to be lapped (min 150mm to manufacturers requirements) and taped at perimeter with Juta GP DPC or similar. Any penetrations through DPM to be sealed in accordance with manufacturers details & recommendations.

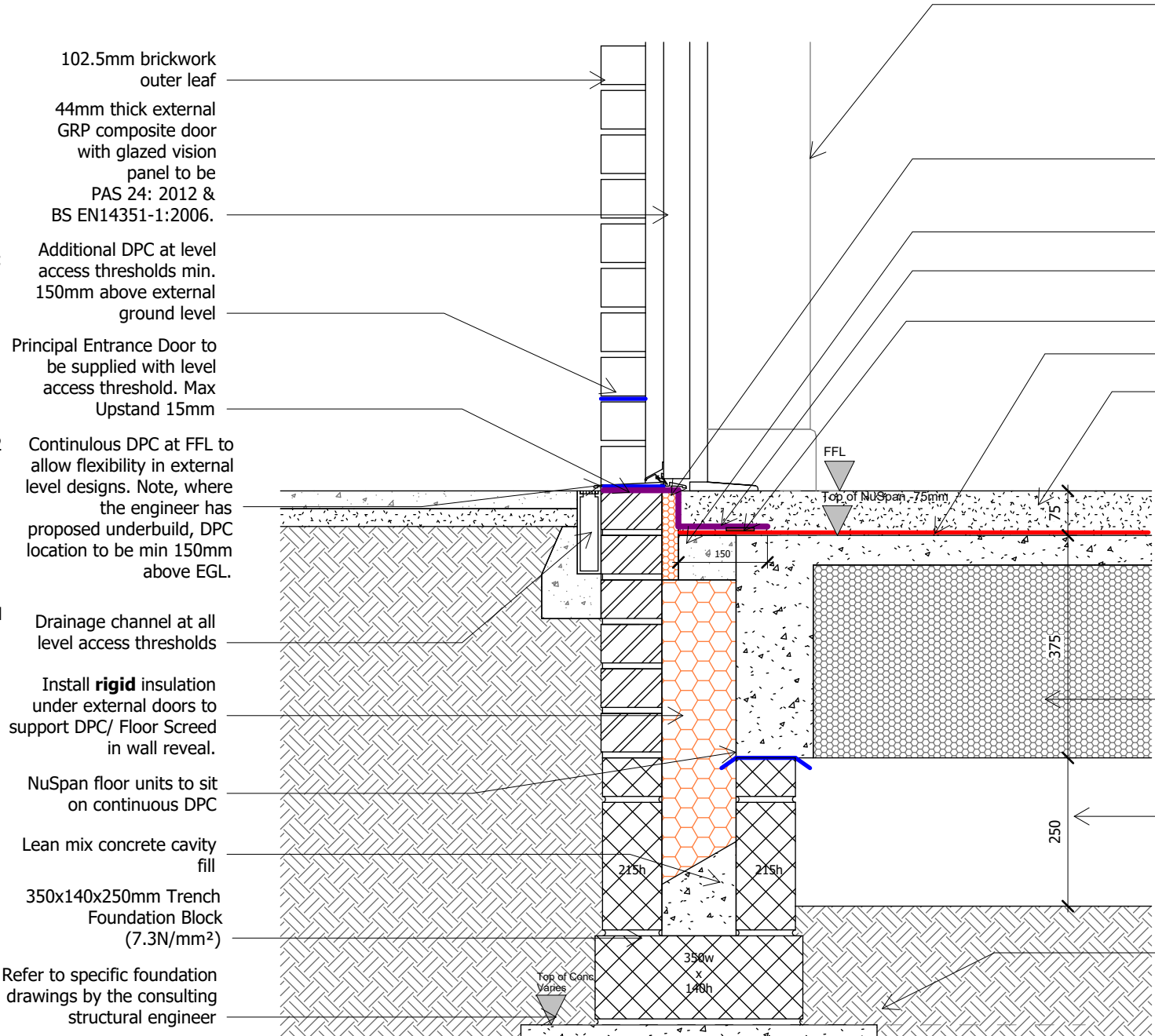
NuSpan Preformed Insulated Suspended Floor System NU G375 to specialist design

250mm minimum ventilated void (to engineers design)

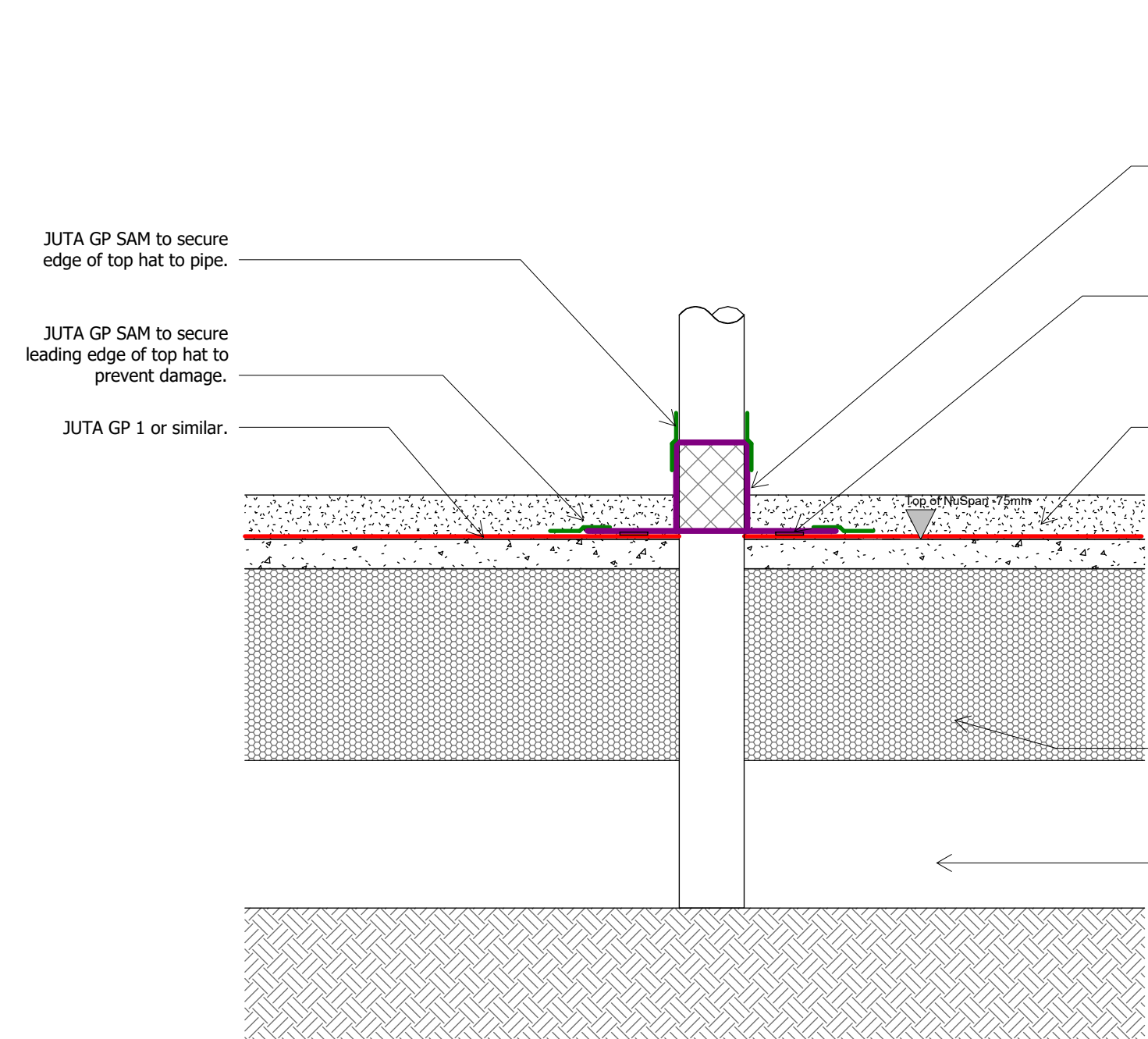
Site specific heave protection if required, in line with consulting engineer's design & details



Brick External Wall / Ground Floor Junction
Max External Ground Level



Brick External Wall / Ground Floor Threshold Junction
Level Access Principle Entrance Doors



Service Penetration Ground Floor

12.5mm Plasterboard applied to blockwork using drywall adhesive dabs. Provide continuous ribbon of adhesive around perimeter of boards

100mm concrete blockwork inner leaf (Thermal Conductivity 0.31W/mK)

Juta GP DPC or similar.

Provide continuous ribbon of adhesive around base of plasterboard

Skirting board with mastic sealant

25mm thick perimeter insulation - min R-value of 0.8m2K/W

Juta GP Tape or similar.

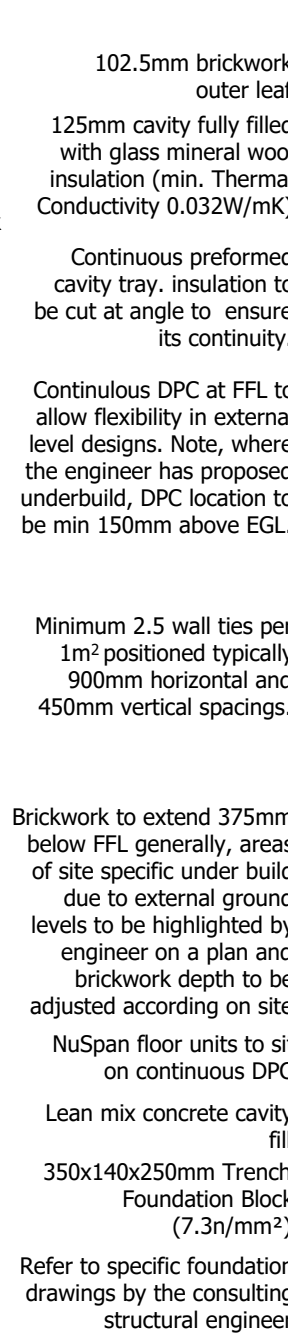
Juta GP 1 or similar.

75mm Sand & Cement Screed on Proprietary CS2 rated Juta GP1 or similar membrane across all floor area, to be lapped (min 150mm to manufacturers requirements) and taped at perimeter with Juta GP DPC or similar. Any penetrations through DPM to be sealed in accordance with manufacturers details & recommendations.

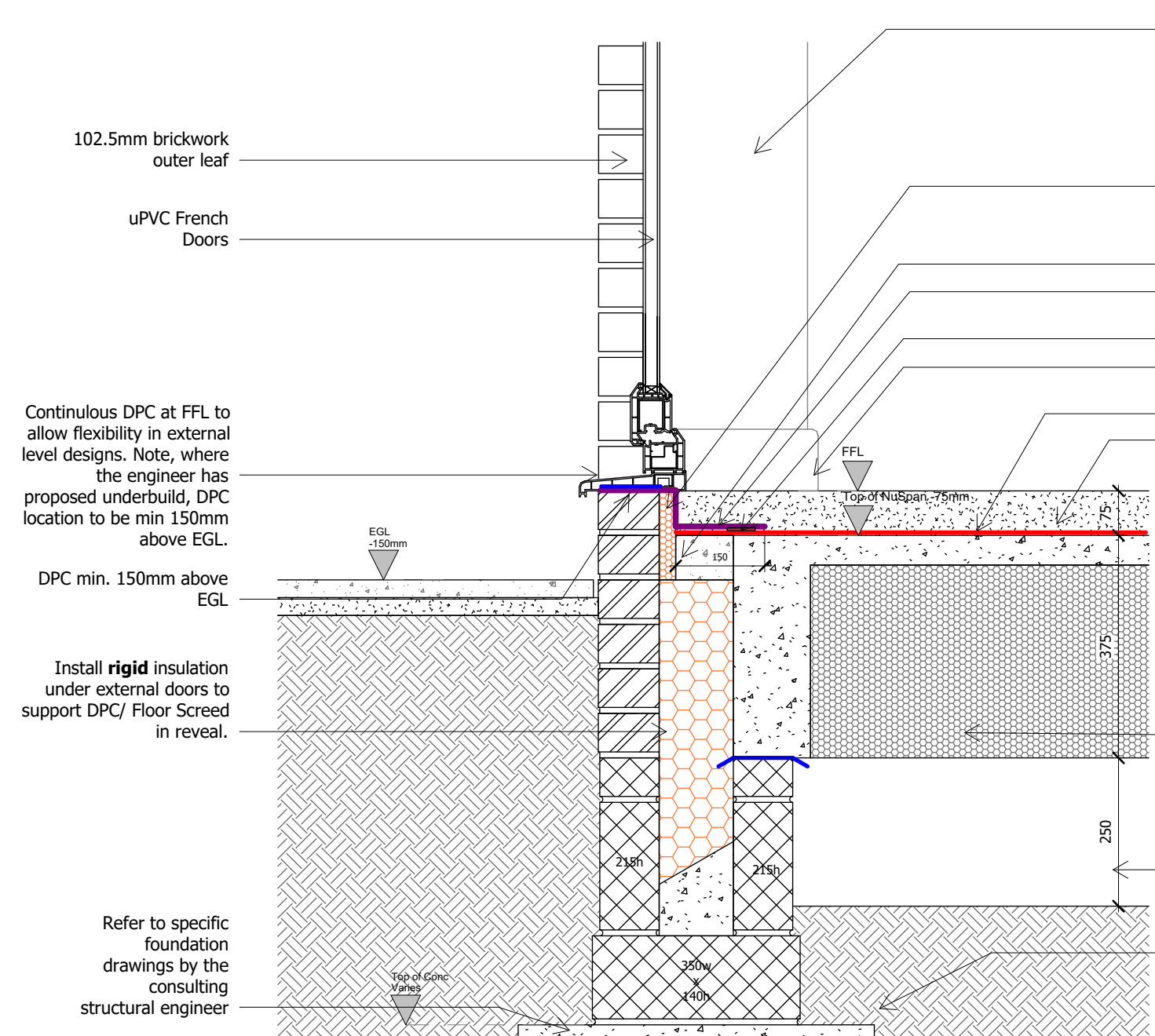
NuSpan Preformed Insulated Suspended Floor System NU G375 to specialist design

250mm minimum ventilated void (to engineers design)

Site specific heave protection if required, in line with consulting engineer's design & details



Brick External Wall / Ground Floor Junction
External Ground Level -150



Brick External Wall / Ground Floor Threshold Junction
Patio Doors



12.5mm Plasterboard applied to blockwork using drywall adhesive dabs. Provide continuous ribbon of adhesive around perimeter of boards

100mm concrete blockwork inner leaf (Thermal Conductivity 0.31W/mK)

Juta GP DPC or similar.

Provide continuous ribbon of adhesive around base of plasterboard

Skirting board with mastic sealant

25mm thick perimeter insulation - min R-value of 0.8m2K/W

Juta GP Tape or similar.

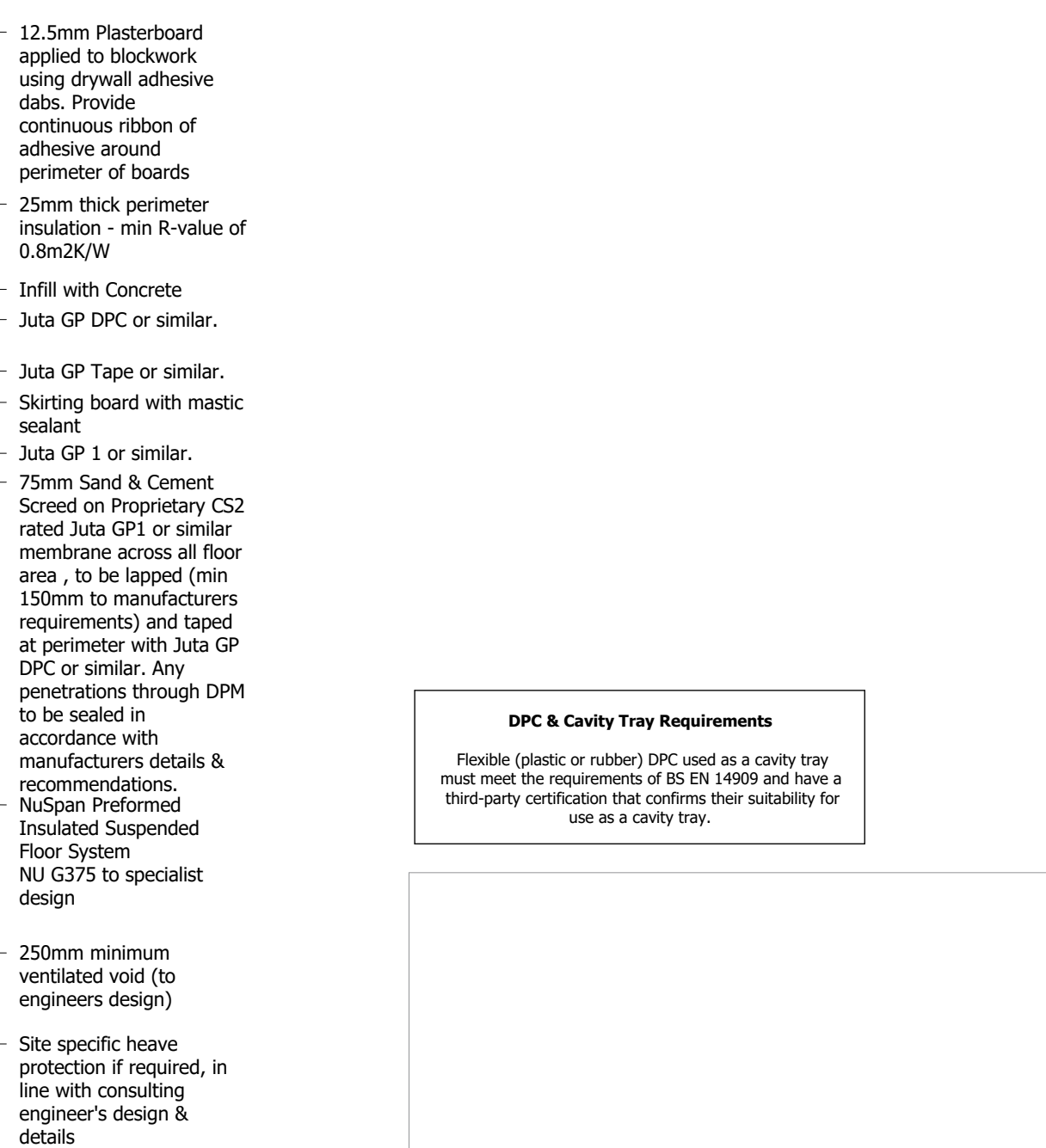
Juta GP 1 or similar.

75mm Sand & Cement Screed on Proprietary CS2 rated Juta GP1 or similar membrane across all floor area, to be lapped (min 150mm to manufacturers requirements) and taped at perimeter with Juta GP DPC or similar. Any penetrations through DPM to be sealed in accordance with manufacturers details & recommendations.

NuSpan Preformed Insulated Suspended Floor System NU G375 to specialist design

250mm minimum ventilated void (to engineers design)

Site specific heave protection if required, in line with consulting engineer's design & details



TARGET U-VALUES
External Wall: Brick & Render on Blockwork - 0.21w/m²k Stone - 0.22w/m²k
Cavity Wall to Garage Wall: 0.20w/m²k
Wall to Garage: 0.34w/m²k
Dormer Wall: 0.26w/m²k
Party Wall: 0.00w/m²k (To be to Robust Detail E-WM-34)
Ground Floor: 0.11w/m²k
Floor above Garage: 0.15w/m²k
Party Floor: 0.00w/m²k (To be to Robust Detail E-FC-4)
Roof - Insulated Ceiling: 0.08w/m²k
Roof - Insulated Slope (Eaves to Flat Ceiling): 0.14w/m²k
Roof - Flat Ceiling for Room in Roof HTs: 0.08w/m²k
Dormer Flat Roof: 0.16w/m²k
Porch Flat Roof: 0.16w/m²k
Front Entrance Door: 1.10w/m²k
Rear / Side Entrance Door: 1.20w/m²k
Windows: 1.20w/m²k
Patio Doors: 1.30w/m²k
Roof Windows: 1.30w/m²k

DPC & Cavity Tray Requirements

Flexible (plastic or rubber) DPC used as a cavity tray must meet the requirements of BS EN 14999 and have a third-party certification that confirms their suitability for use as a cavity tray.

P5	07.06.24	DW	AH	Updated with Juta Gas membrane
P4	17.11.23	DW	AH	Revised following client comments
P3	08.11.23	DW	AH	TOC FFL updated to 900mm
P2	09.10.23	DW	AH	Revised following client comments
P1	25.06.23	DW	RJ	Extra details added

Rev	Date	Drawn	Checked	Description
S0				Work In Progress

Hollin Gate, Littleborough

Assembly Details - Brick - Sheet 1

Location:
Hollingworth Road
Littleborough

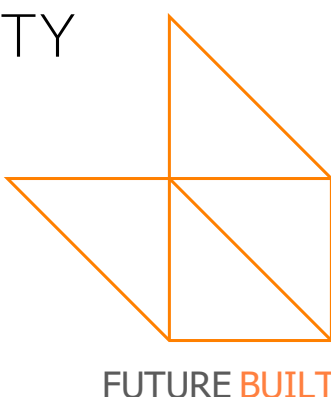
Client:
Countryside Partnerships

UPRN	Originator	Zone	Level	Type	Rate	Series/Number	Revision
HOLL-WBA-XX-XX-DR-A-20_9001							P5
Date:	May 23	Drawn:	WMB	Checked:	RJ	Scale: @A1	Int Job No: 4046-001
						As indicated	

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ARCHITECTS

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Guisely, Leeds LS20 8EU
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W: www.watsonbatty.com



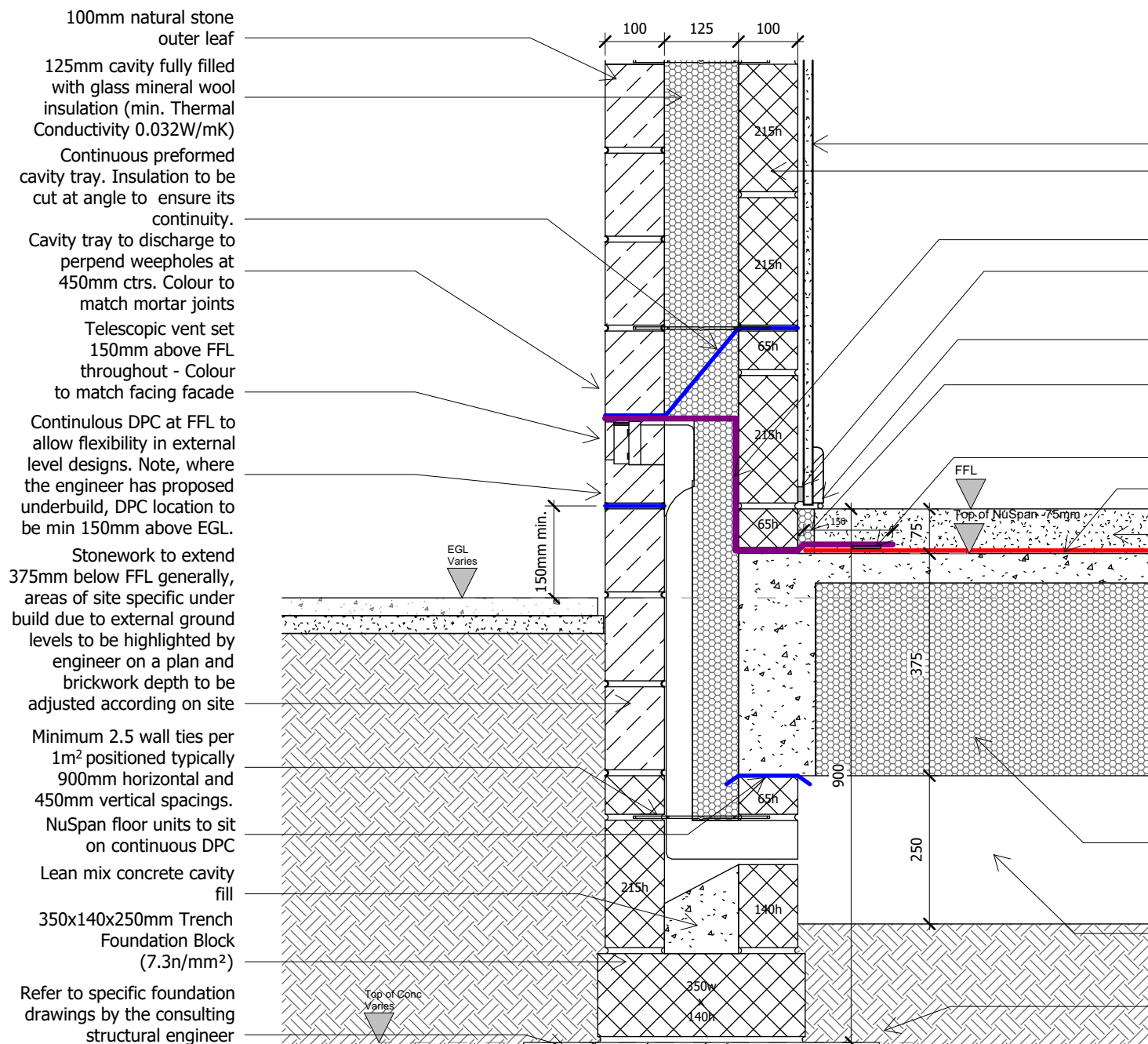
FUTURE BUILT

Note: Do not Scale from this drawing. All dimensions to be checked on site

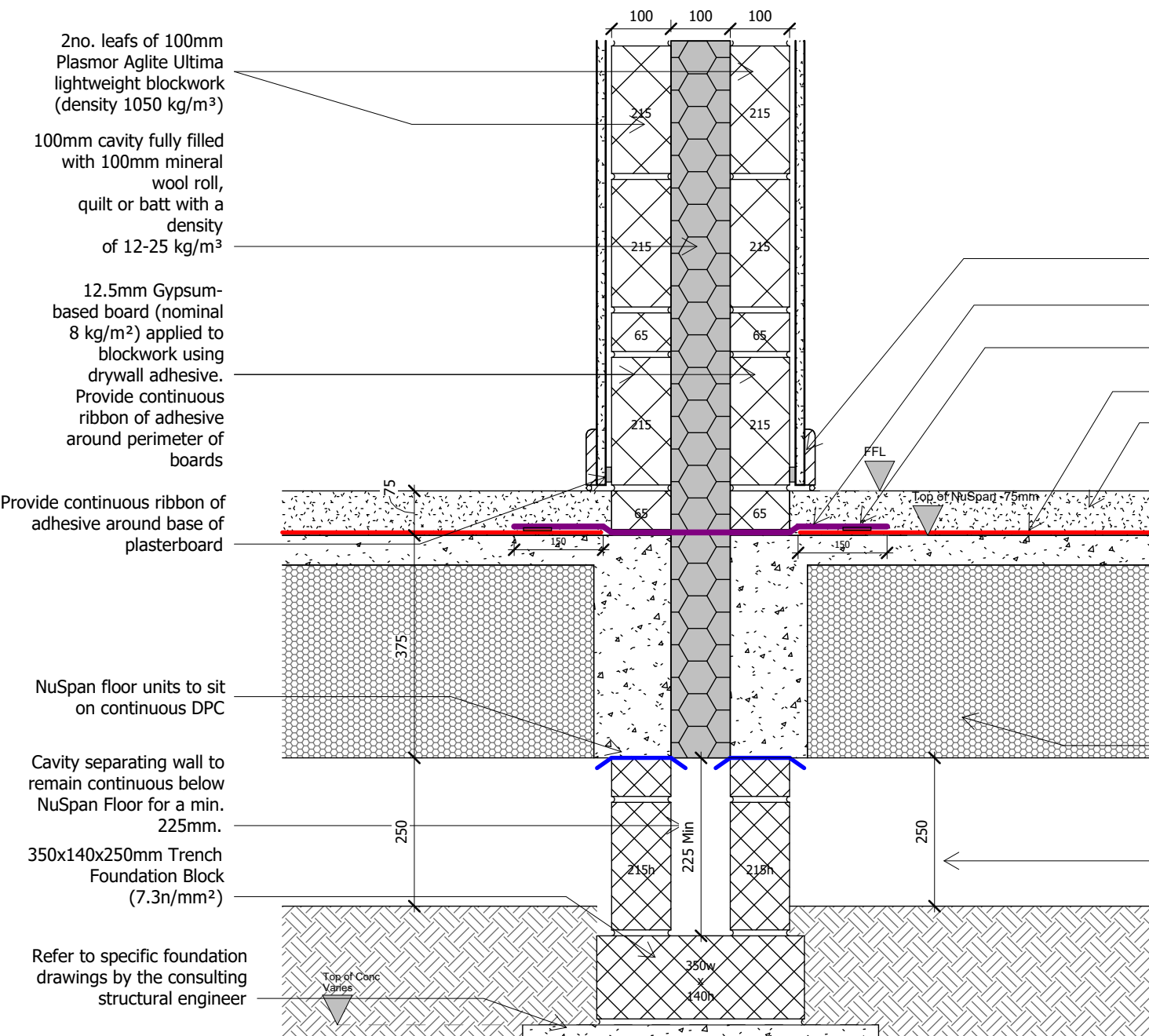


Flexible (plastic or rubber) DPC used as a cavity tray must meet the requirements of BS EN 14909 and have a third-party certification that confirms their suitability for use as a cavity tray.

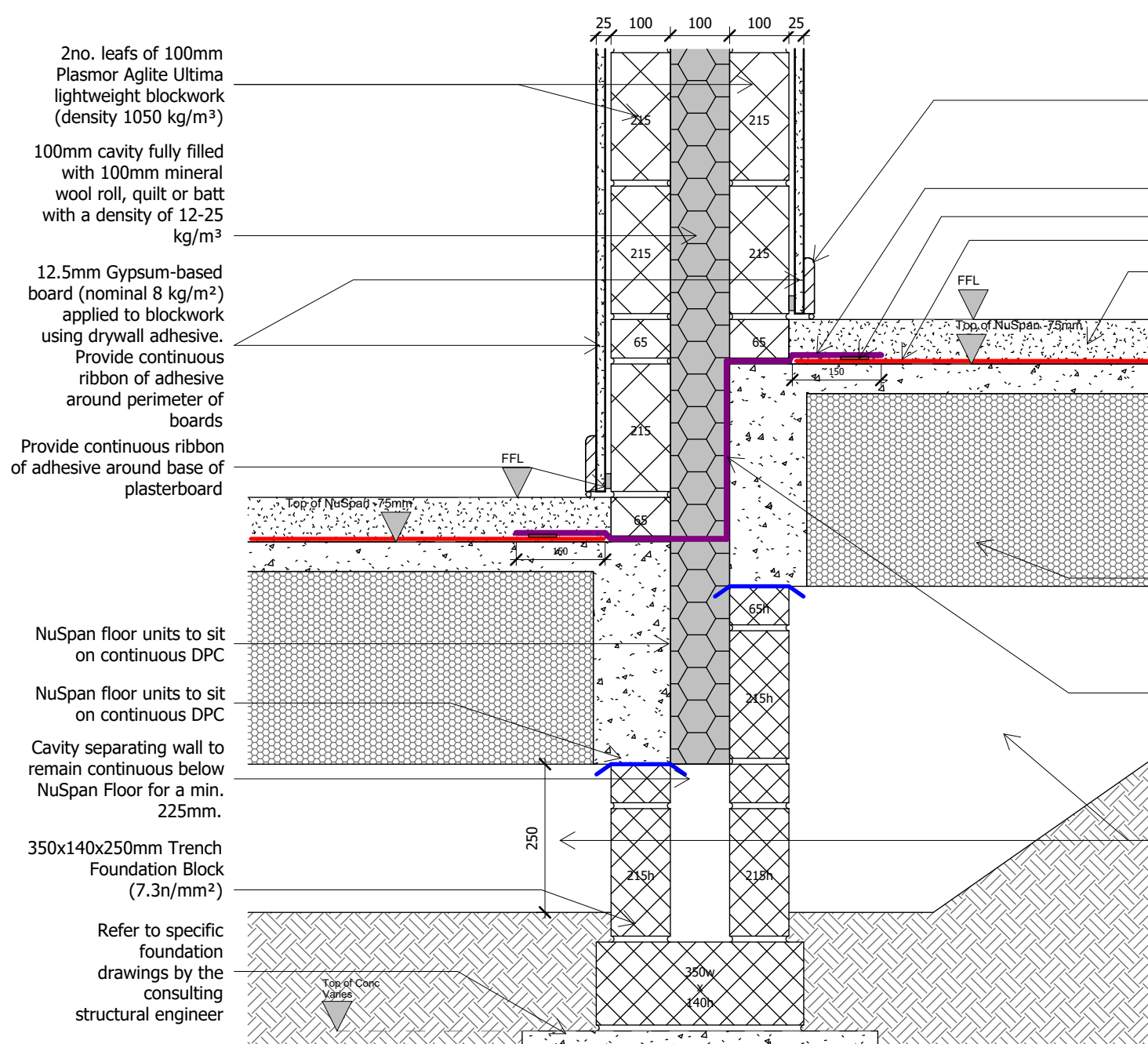




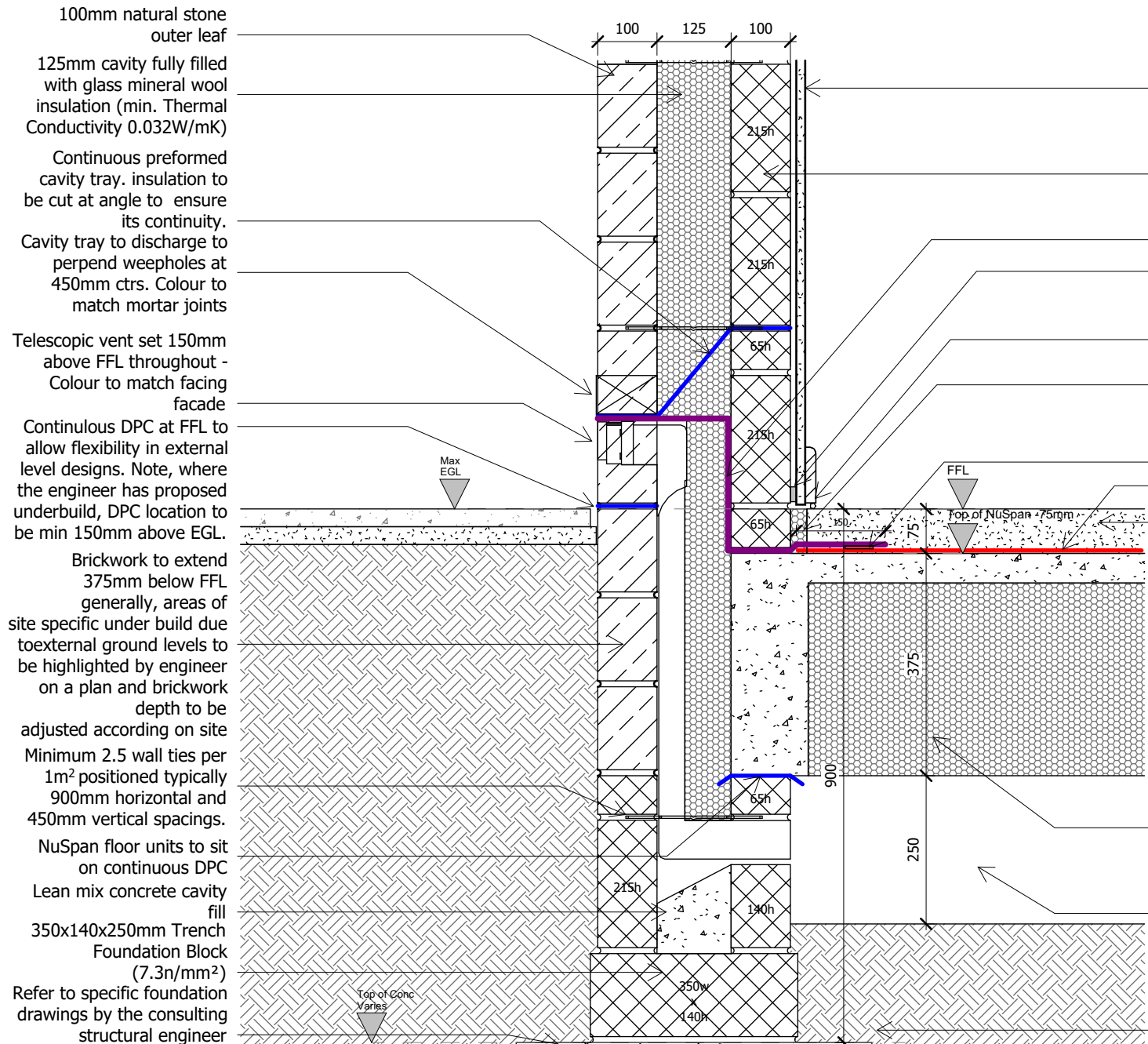
Stone External Wall / Ground Floor Junction
External Ground Level -150



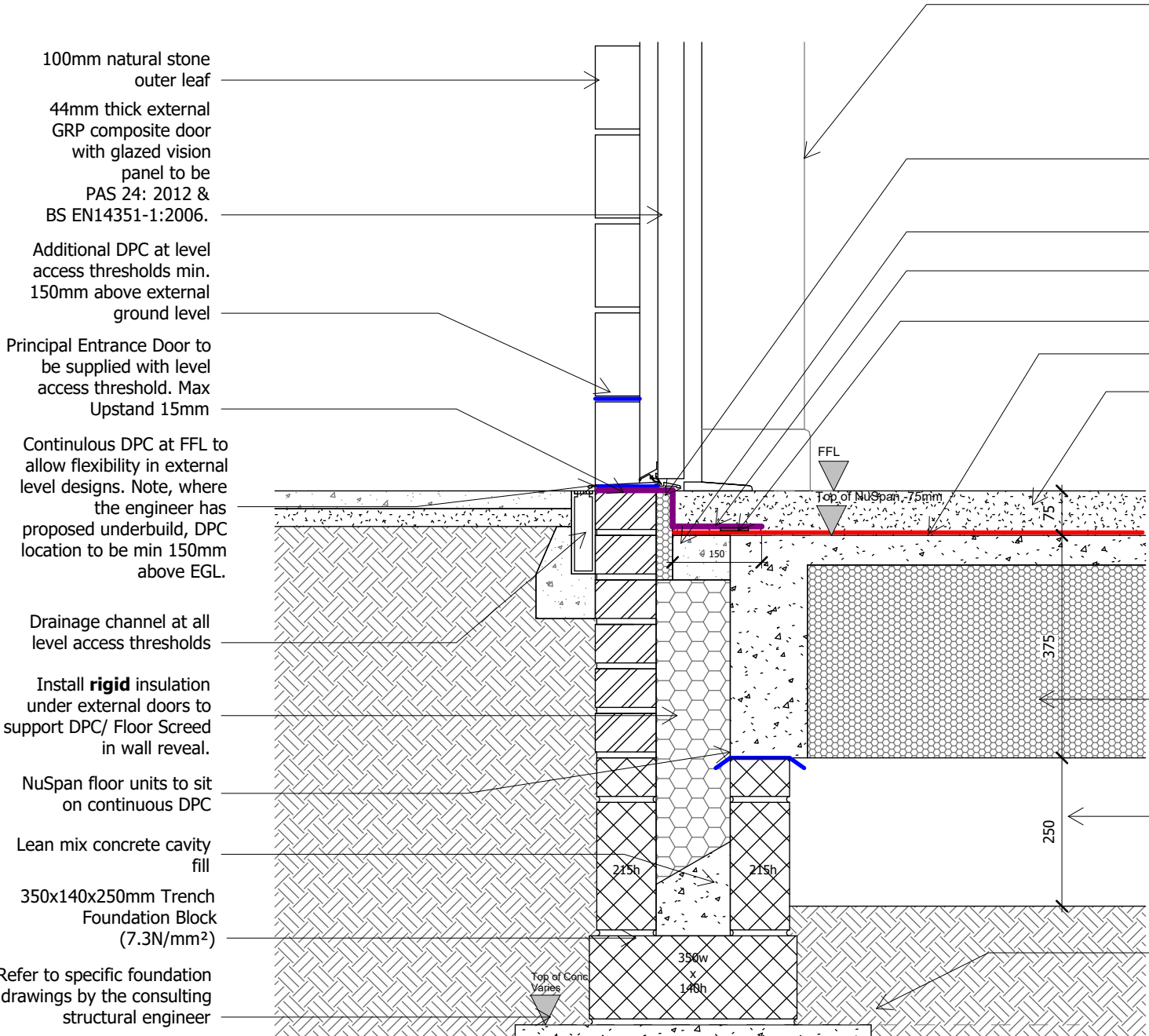
Separating Wall / Ground Floor Junction
Robust Detail E-WM-34



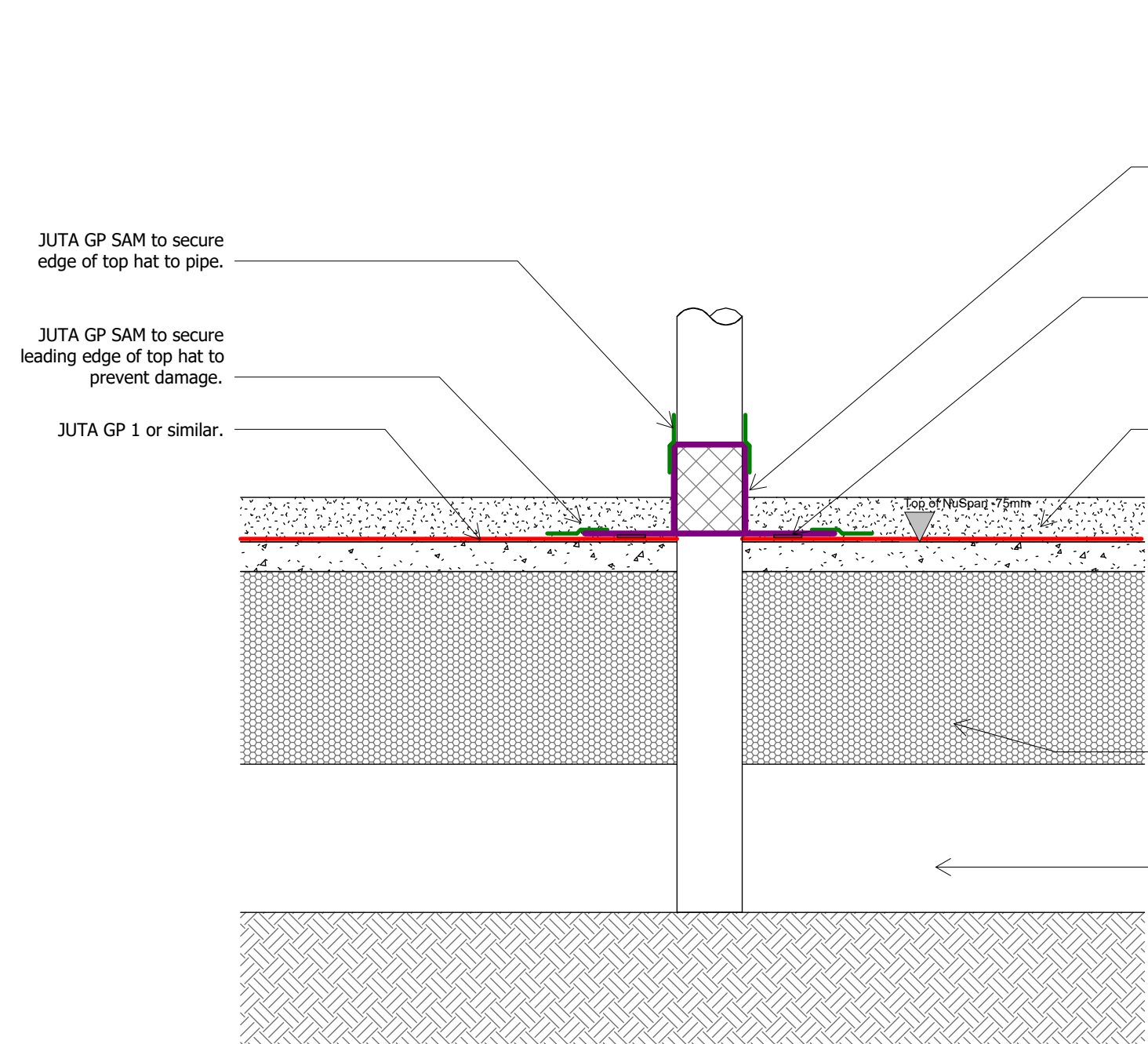
Typical Separating Wall / Stepped Ground Floor Junction
Robust Detail - E-WM-34



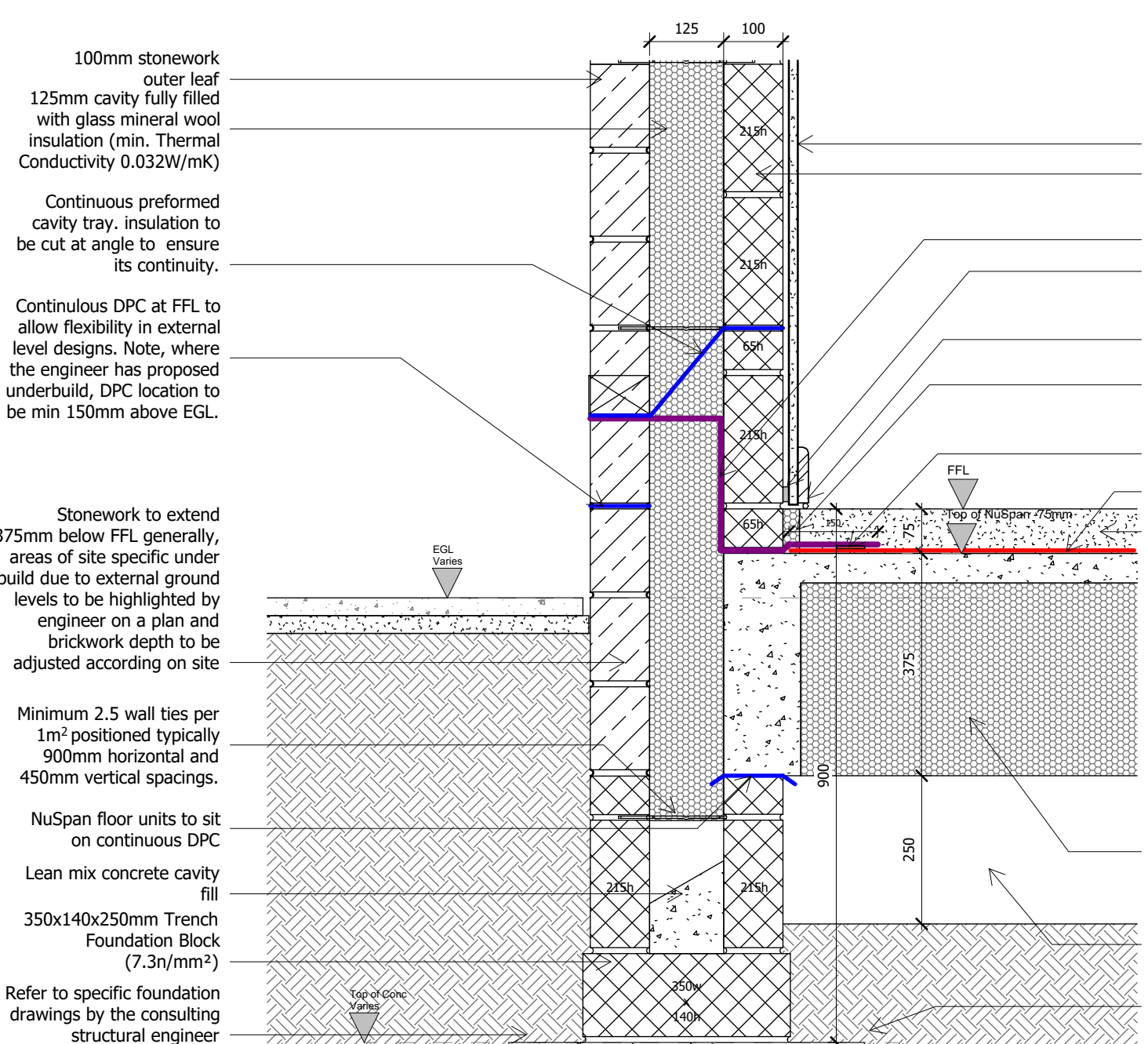
Stone External Wall / Ground Floor Junction
Max External Ground Level



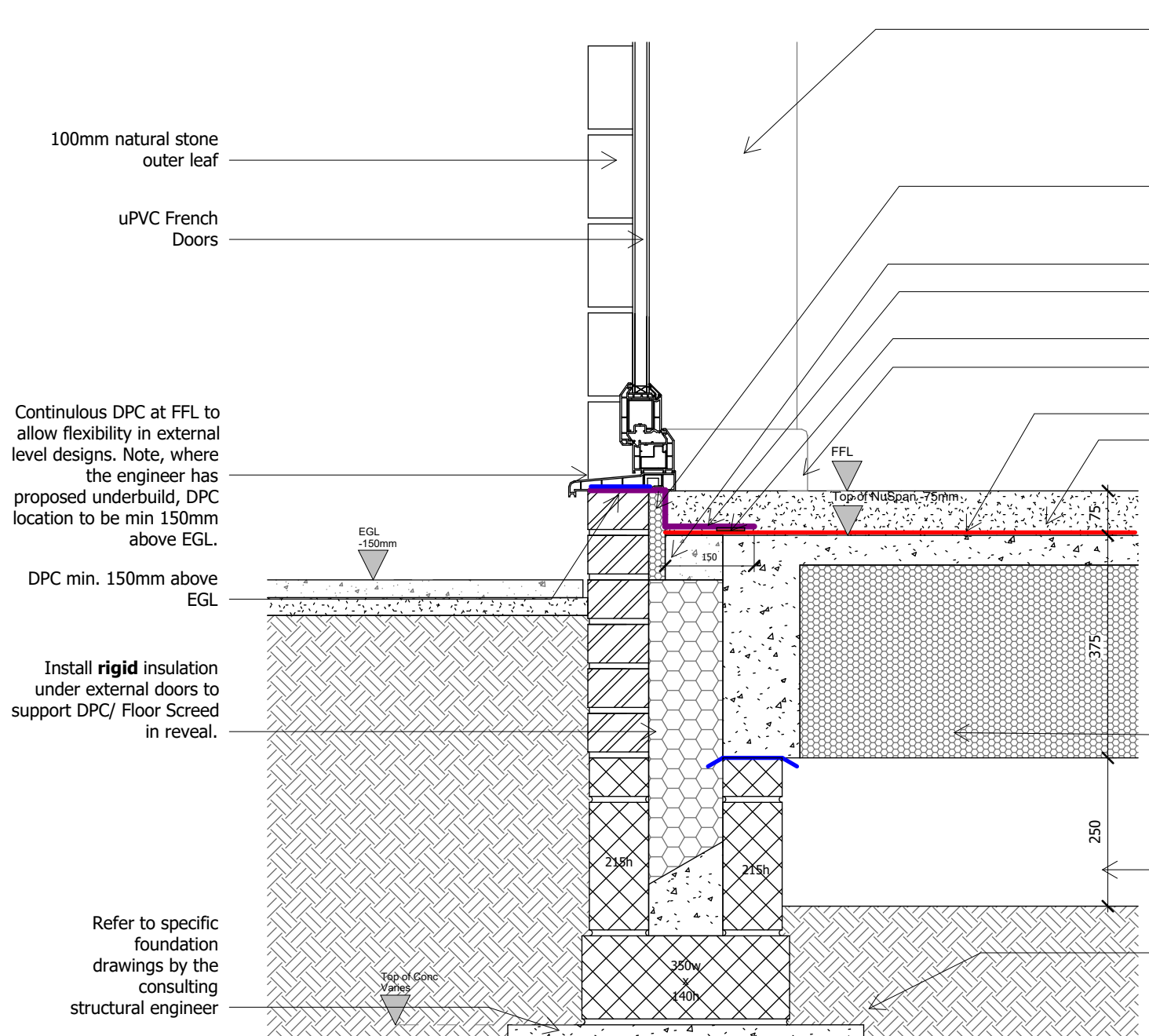
Brick External Wall / Ground Floor Threshold Junction
Level Access Principle Entrance Doors



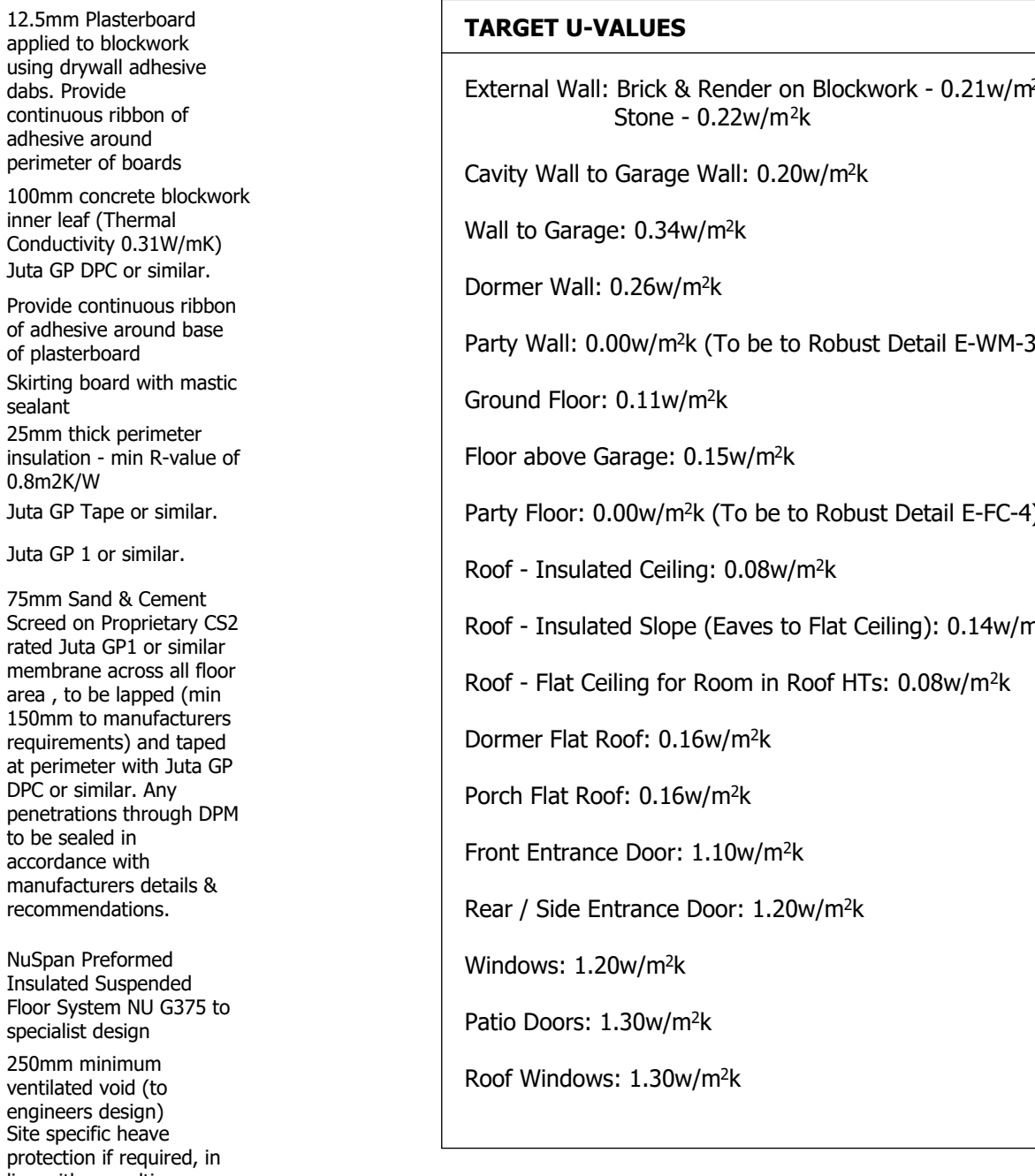
Service Penetration Ground Floor



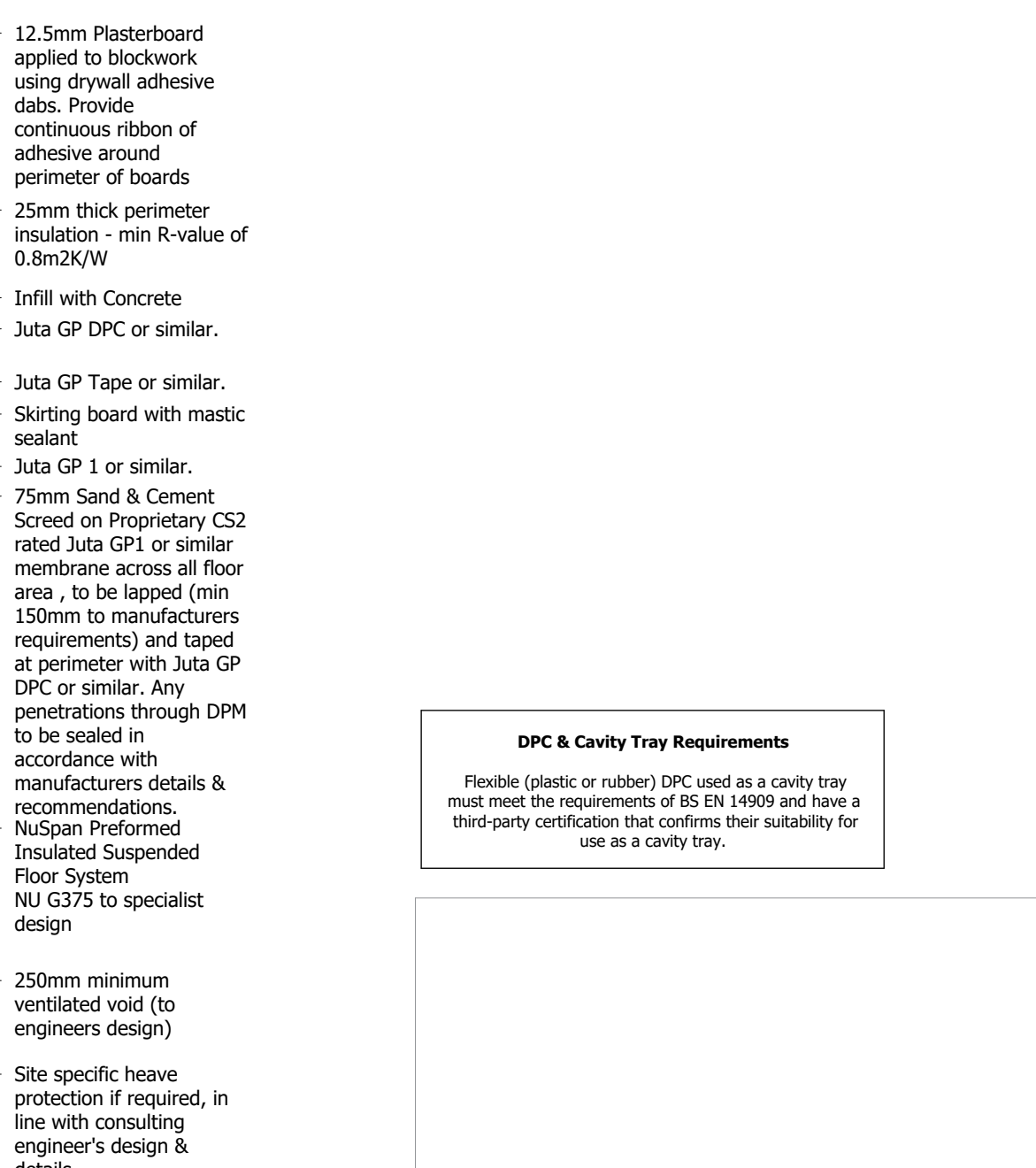
Stone External Wall / Ground Floor Junction
External Ground Level -150



Brick External Wall / Ground Floor Threshold Junction
Patio Doors



Stone External Wall / Ground Floor Junction
External Ground Level -150



Brick External Wall / Ground Floor Threshold Junction
Patio Doors

TARGET U-VALUES
External Wall: Brick & Render on Blockwork - 0.21w/m²k Stone - 0.22w/m²k
Cavity Wall to Garage Wall: 0.20w/m²k
Wall to Garage: 0.34w/m²k
Dormer Wall: 0.26w/m²k
Party Wall: 0.00w/m²k (To be to Robust Detail E-WM-34)
Ground Floor: 0.11w/m²k
Floor above Garage: 0.15w/m²k
Party Floor: 0.00w/m²k (To be to Robust Detail E-FC-4)
Roof - Insulated Ceiling: 0.08w/m²k
Roof - Insulated Slope (Eaves to Flat Ceiling): 0.14w/m²k
Roof - Flat Ceiling for Room in Roof HTs: 0.08w/m²k
Dormer Flat Roof: 0.16w/m²k
Porch Flat Roof: 0.16w/m²k
Front Entrance Door: 1.10w/m²k
Rear / Side Entrance Door: 1.20w/m²k
Windows: 1.20w/m²k
Patio Doors: 1.30w/m²k
Roof Windows: 1.30w/m²k

DPC & Cavity Tray Requirements
Flexible (plastic or rubber) DPC used as a cavity tray must meet the requirements of BS EN 14989 and have a third-party certification that confirms their suitability for use as a cavity tray.

P4	13.06.24	DW	AH	Updated membrane ref.
P3	17.11.23	DW	AH	Revised following client comments
P2	08.11.23	DW	AH	TOC-FFL updated to 900mm
P1	09.10.23	DW	AH	Revised following client comments

Rev:	Date:	Drawn:	Checked:	Description:
S0				Work In Progress

Hollin Gate, Littleborough

Assembly Details - Stone - Sheet 1

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

UPRN	Originator	Zone	Level	Type	Rate	Series/Number	Revision:
HOLL-WBA-XX-XX-DR-A-20_9101							P4
Date:	Drawn:	Checked:	Scale:	Int Job No:			
May 23	WMB	RJ	As indicated	4046-001			

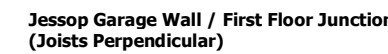
WATSON BATTY
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Guiseley, Leeds LS20 8EU
Leeds | Loughborough

T: 01943 876 665
E: enquiries@watsonbatty.com
W: www.watsonbatty.com



Note: Do not Scale from this drawing. All dimensions to be checked on site



TARGET U-VALUES

External Wall: Brick & Render on Blockwork	0.21w/m ² k
Stone	0.22w/m ² k
Cavity Wall to Garage Wall:	0.20w/m ² k
Wall to Garage:	0.34w/m ² k
Dormer Wall:	0.26w/m ² k
Party Wall:	0.00w/m ² k (To be to Robust Detail E-WM-34)
Ground Floor:	0.11w/m ² k
Floor above Garage:	0.15w/m ² k
Party Floor:	0.00w/m ² k (To be to Robust Detail E-FC-4)
Roof - Insulated Ceiling:	0.08w/m ² k
Roof - Insulated Slope (Eaves to Flat Ceiling):	0.14w/m ² k
Roof - Flat Ceiling for Room in Roof HTs:	0.08w/m ² k
Dormer Flat Roof:	0.16w/m ² k
Porch Flat Roof:	0.16w/m ² k
Front Entrance Door:	1.10w/m ² k
Rear / Side Entrance Door:	1.20w/m ² k
Windows:	1.20w/m ² k
Patio Doors:	1.30w/m ² k
Roof Windows:	1.30w/m ² k

DPC & Cavity Tray Requirements

Flexible (plastic or rubber) DPC used as a cavity tray must meet the requirements of BS EN 14909 and have a third-party certification that confirms their suitability for use as a cavity tray.

P1	17.11.23	DW	AH	Initial issue.
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Rev:	Date:	Drawn:	Checked:	Description:
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S0	Work In Progress
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Hollin Gate, Littleborough

Feature Assembly Details - Sheet 1

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

UPRN	Originator	Zone	Level	Type	Role	Series/Number	Revision:
HOLL-WBA-XX-XX-DR-A-20_9201							P1
Date:	Drawn:	Checked:	Scale:	Int Job No:			
02/28/23	WMB	RJ	As indicated	4046-001			

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FUTURE BUILT

Note: Do not Scale from this drawing. All dimensions to be checked on site



TARGET U-VALUES

External Wall: Brick & Render on Blockwork	0.21w/m ² k
Stone	0.22w/m ² k
Cavity Wall to Garage Wall:	0.20w/m ² k
Wall to Garage:	0.34w/m ² k
Dormer Wall:	0.26w/m ² k
Party Wall:	0.00w/m ² k (To be to Robust Detail E-WM-34)
Ground Floor:	0.11w/m ² k
Floor above Garage:	0.15w/m ² k
Party Floor:	0.00w/m ² k (To be to Robust Detail E-FC-4)
Roof - Insulated Ceiling:	0.08w/m ² k
Roof - Insulated Slope (Eaves to Flat Ceiling):	0.14w/m ² k
Roof - Flat Ceiling for Room in Roof HTs:	0.08w/m ² k
Dormer Flat Roof:	0.16w/m ² k
Porch Flat Roof:	0.16w/m ² k
Front Entrance Door:	1.10w/m ² k
Rear / Side Entrance Door:	1.20w/m ² k
Windows:	1.20w/m ² k
Patio Doors:	1.30w/m ² k
Roof Windows:	1.30w/m ² k

DPC & Cavity Tray Requirements

Flexible (plastic or rubber) DPC used as a cavity tray must meet the requirements of BS EN 14909 and have a third-party certification that confirms their suitability for use as a cavity tray.

13.05.24	DW	AH	Updated membrane ref.
07.06.24	DW	AH	Initial Issue.
Date:	Drawn:	Checked:	Description:
Stability:	S0 Work In Progress		

Hollin Gate, Littleborough

Feature Assembly Details - Sheet 7

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

URN Originator Zone Level Type Role Series/Number Revision:
HOLL-WBA-XX-XX-DR-A-20_9207 P2

Date Drawn: Checked: Scale: @A1 Int Job No:
jun 24 DW RJ As indicated 4046-001

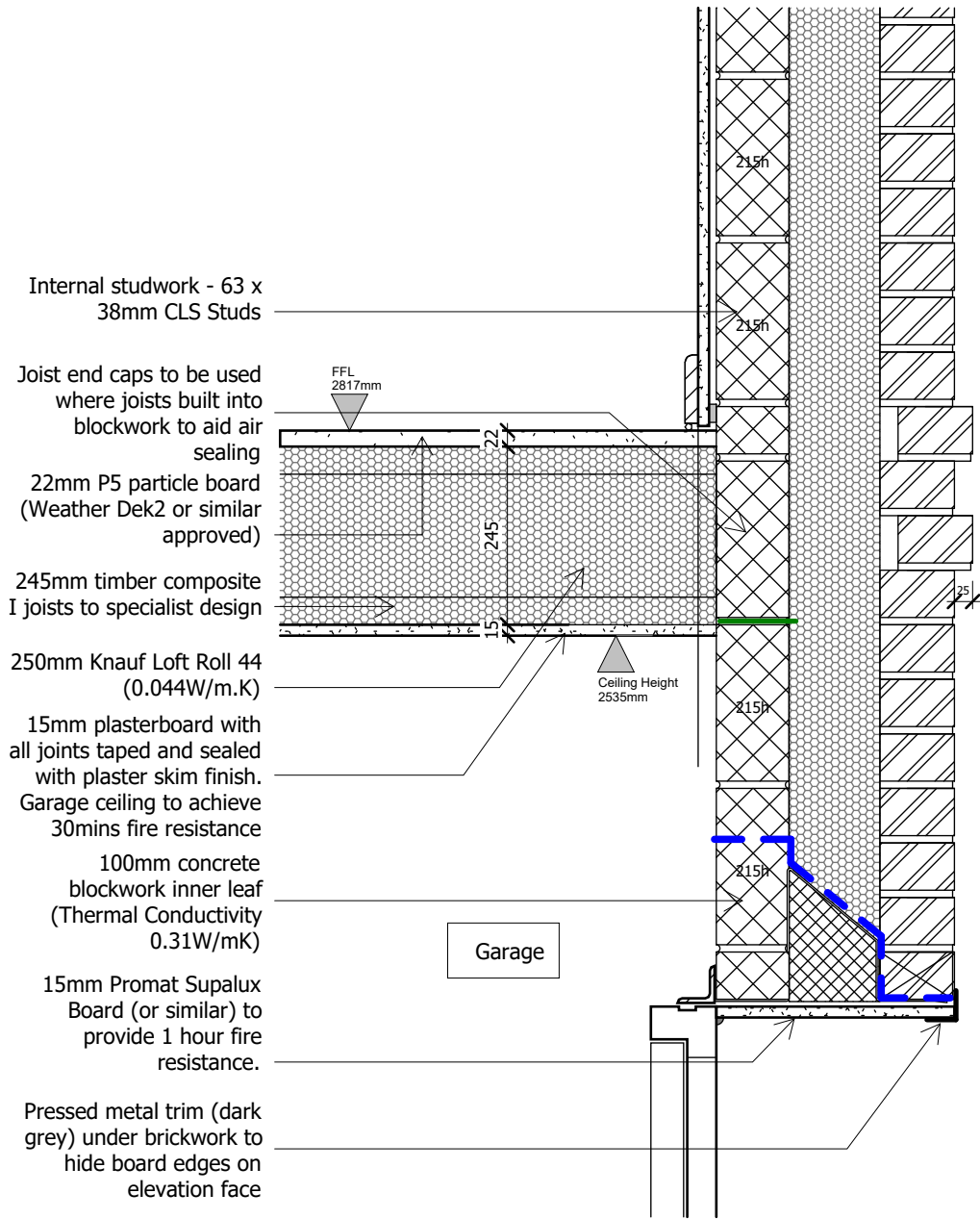
WATSON BATTY
4RCHITECTS

Shires House, Shires Road
Knaresborough, Leeds LS20 8EU
Leeds • Loughborough

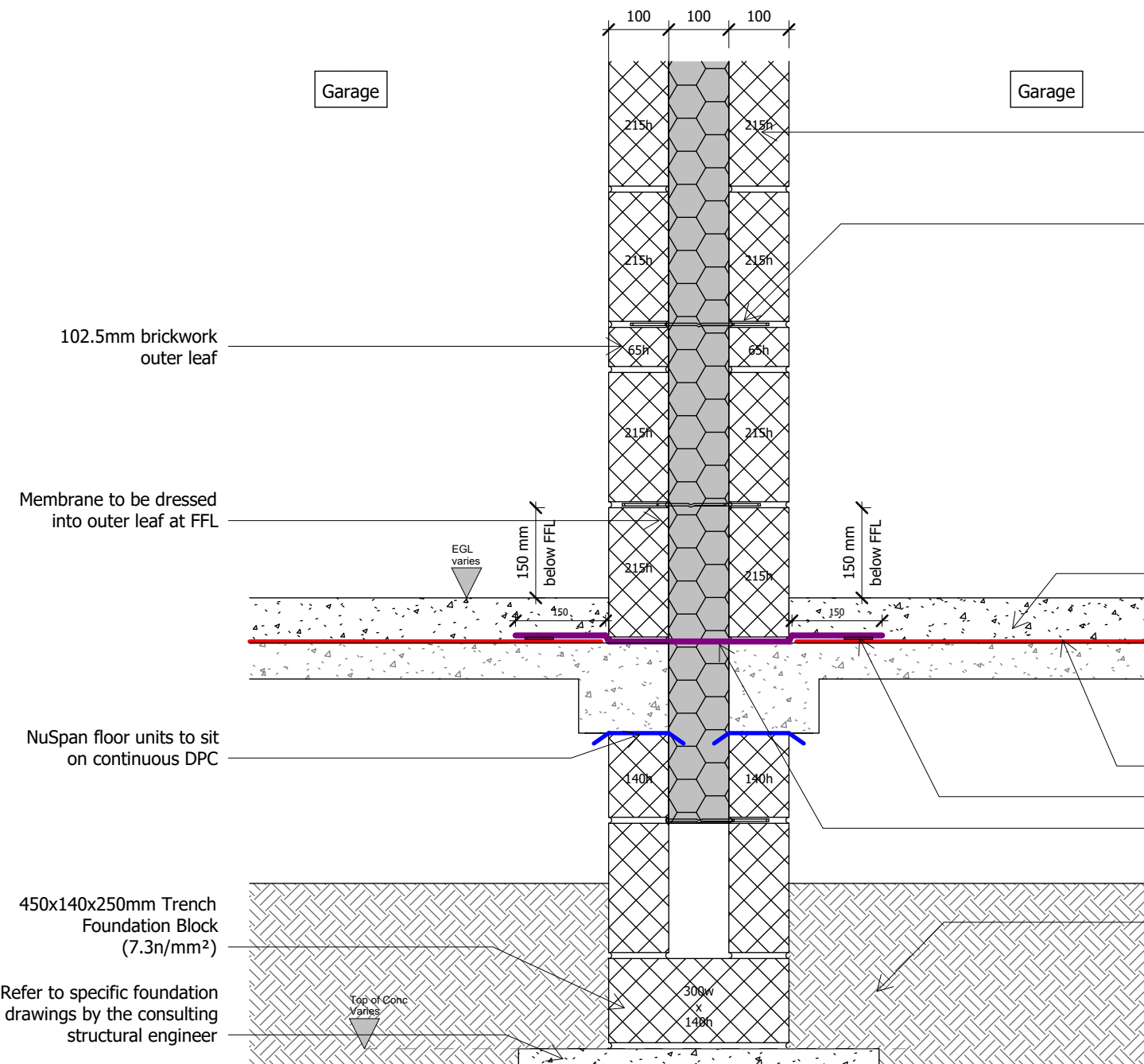
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E: enquiries@watsonbatty.com
W: www.watsonbatty.com



FUTURE BUILT

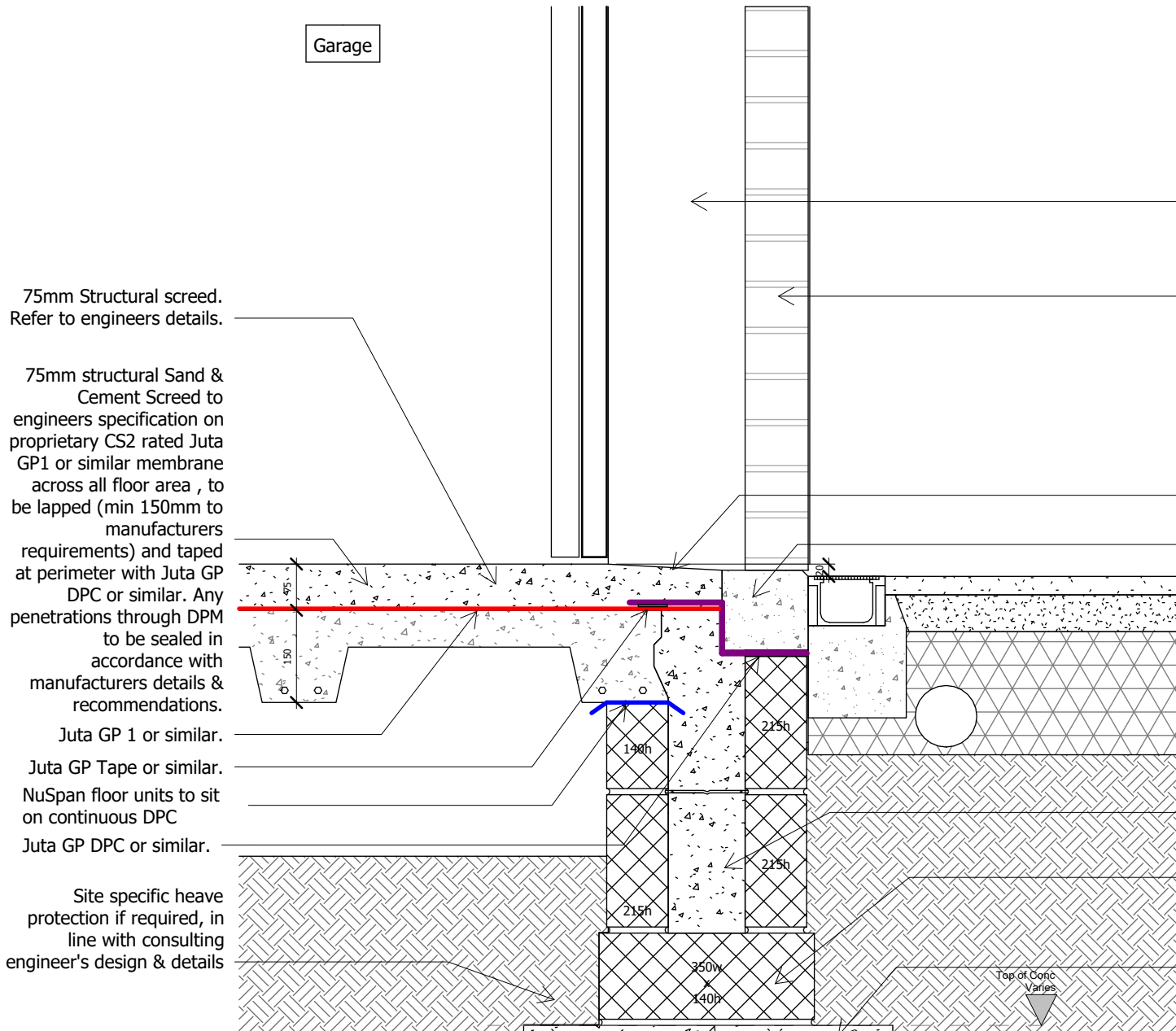


Stansfield Garage Wall / First Floor Junction
(Joists Perpendicular)

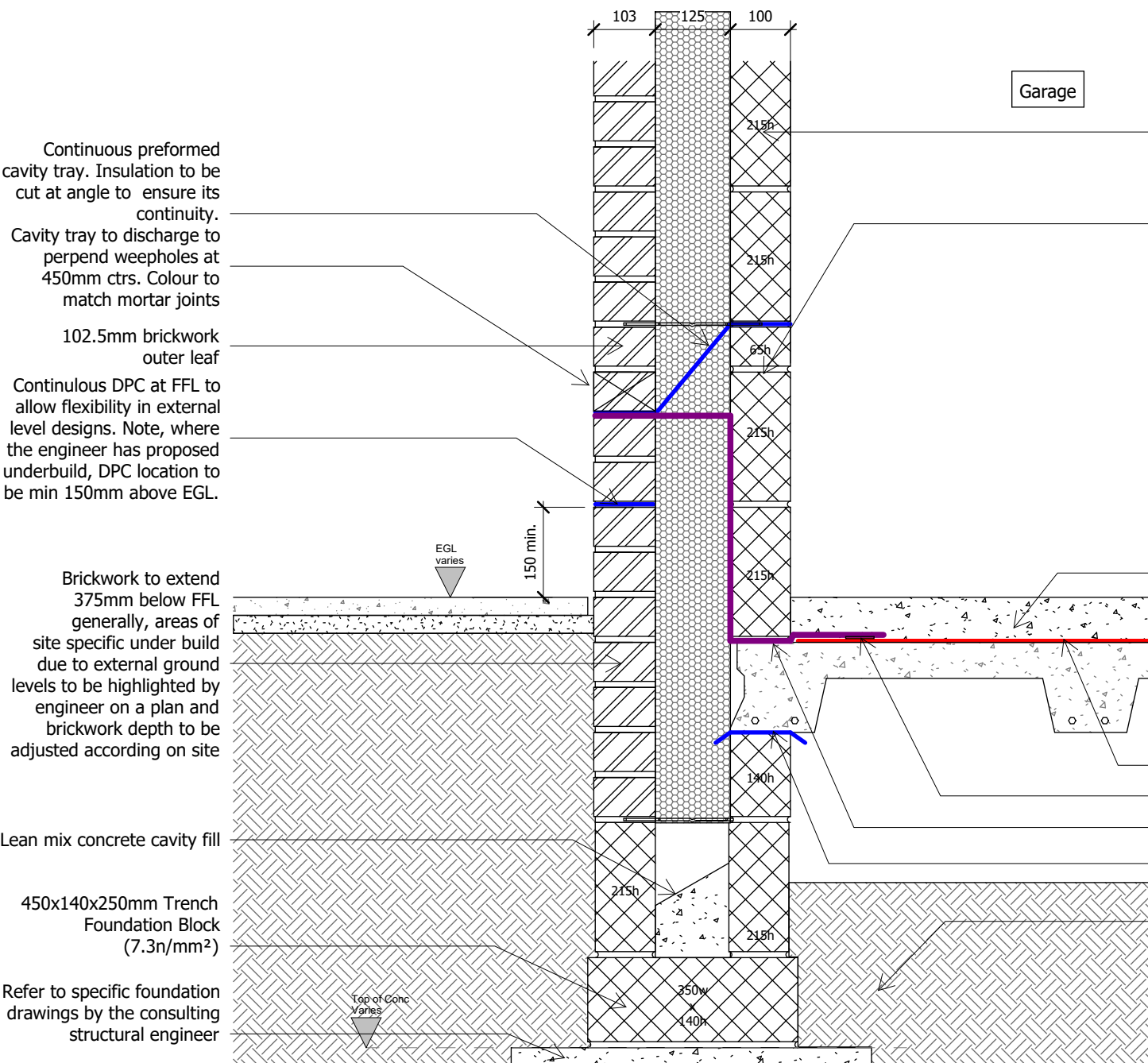


Seperating Wall Stansfield
Integral Garage Adjacent Pair - Robust Detail E-WM-34

Note:
- Construction to achieve a system sound rating of min 40dB & 30 minutes fire resistance.
- Moisture resistant plasterboard to be provided in all bathroom /shower room areas.



Stansfield Brick External Wall Adjacent to Garage Threshold
Integral Garage



Stansfield Brick External Wall Adjacent to Garage Threshold
Integral Garage

Cloaking over cavity and blockwork to match garage door frame
102.5mm brickwork outer leaf

Fall on screed to threshold block
Precast threshold block

Lean mix concrete cavity fill
450x140x250mm Trench Foundation Block (7.3n/mm²)

Refer to specific foundation drawings by the consulting structural engineer

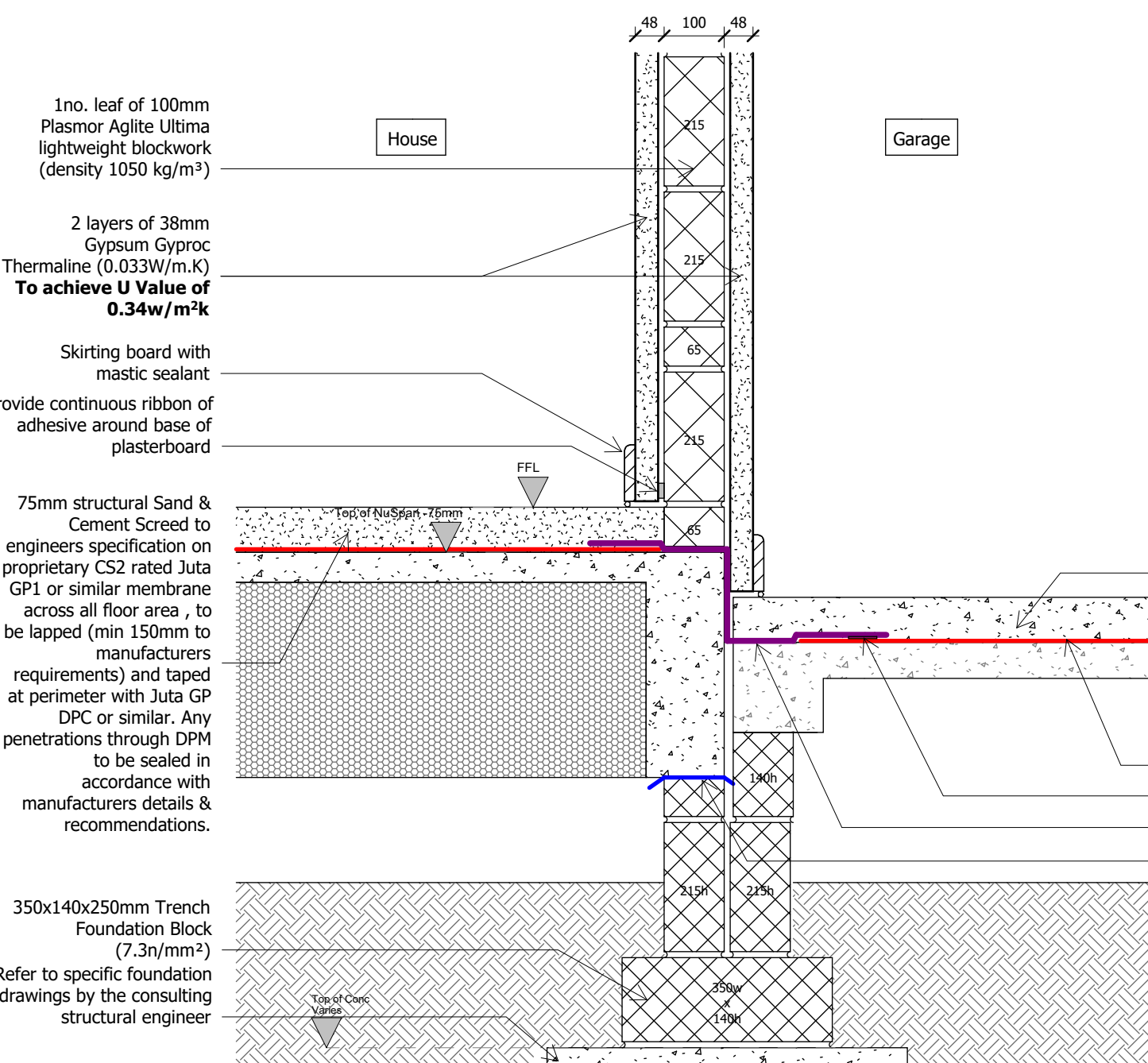
Pack and Seal any gaps at top of blockwork

245mm timber composite joists to specialist design

Continuous dab around edge of plasterboard

2 layers of 38mm Gypsum Gyproc Thermaline (0.033W/m.K)
To achieve U Value of 0.34w/m²K

Stansfield Internal Garage Wall / First Floor Junction
(Joists Perpendicular)



Stansfield
Integral Garage Wall / Ground Floor Junction

Joist end caps to be used where joists built into blockwork to aid air sealing
22mm P5 particle board (Weather Dek2 or similar approved)

300mm timber composite joists to specialist design (built into blockwork)

250mm Knauf Loft Roll 44 (0.044W/m.K)
6mm SuperFOIL

15mm plasterboard with all joints taped and sealed with plaster skim finish
Garage ceiling to achieve 30mins fire resistance

100mm thick Plasmor Aglite Ultima 1050kg/m³

Note:
- Construction to achieve a system sound rating of min 40dB & 30 minutes fire resistance.
- Moisture resistant plasterboard to be provided in all bathroom/shower room areas.

TARGET U-VALUES

External Wall: Brick & Render on Blockwork - 0.21w/m²K
Stone - 0.22w/m²K

Cavity Wall to Garage Wall: 0.20w/m²K

Wall to Garage: 0.34w/m²K

Dormer Wall: 0.26w/m²K

Party Wall: 0.00w/m²K (To be to Robust Detail E-WM-34)

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Party Floor: 0.00w/m²K (To be to Robust Detail E-FC-4)

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Roof Windows: 1.30w/m²K

DPC & Cavity Tray Requirements

Flexible (plastic or rubber) DPC used as a cavity tray must meet the requirements of BS EN 14909 and have a third-party certification that confirms their suitability for use as a cavity tray.

P1 13.06.24 DW AH Initial issue.

Rev: Date: Drawn: Checked: Description:

S0 Work In Progress

Hollin Gate, Littleborough

Feature Assembly Details - Sheet 8

Location:
Hollingworth Road
Littleborough

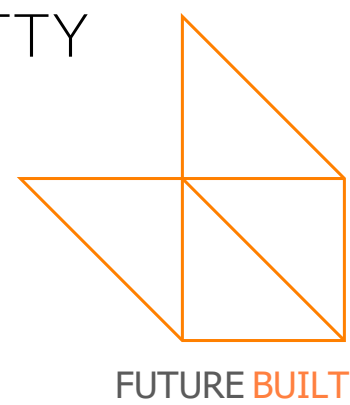
Client:
Countryside Partnerships

UPRN Originator Zone Level Type Role Series/Number Revision:
HOLL-WBA-XX-XX-DR-A-20_9208 P1
Date: 02/28/23 Drawn: WMB Checked: RJ Scale: @A1 Int Job No: 4046-001

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FUTURE BUILT

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