

By Email

Our Ref: 24-218.12L

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

14th May 2025

Dear Sakhile,

RE: Verification of Hazardous Ground Gas Protection Measures at Plots 44 to 50 Land at Hollin Bank, Hollingworth Road, Littleborough

Plots 44 to 50 have been inspected by Countryside Partnerships (Yorkshire). 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 to negate any potential risks to the proposed end users.

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 continued 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 44 to 50 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 plots 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 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.

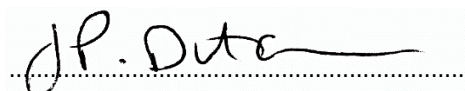
Based on the information provided by Countryside Partnerships, this validation letter confirms that the hazardous ground gas protective measures within Plots 44 to 50 of the residential development have been satisfactorily installed and inspected by Countryside Partnerships.

RE: Verification of Hazardous Ground Gas Protection Measures at Plots 44 to 50 Land at Hollin Bank, Hollingworth Road, Littleborough (Cont'd)

To date 10 of 10 plots were verified by Arc for the first 10 plots, then 1 of 5 plots of the next 25 plots, and 1 of 10 currently and for the remainder of the plots going forward (excluding the piled plots to be individually checked by Arc (due to a differing floor slab construction).

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,



For and on behalf of Arc Environmental Limited

John Ditchburn BEng (Hons) CSci MEnvSc MCIEH FGS
Director

Photographic Record Sheets

T: 0191 378 6380
E: admin@arc-environmental.com
W: www.arc-environmental.com
Registered in England No. 05539784

















Vistry Group

GAS MEMBRANES AND AIR BRICKS PLOTS 47,48

Friday, 6 March 2026

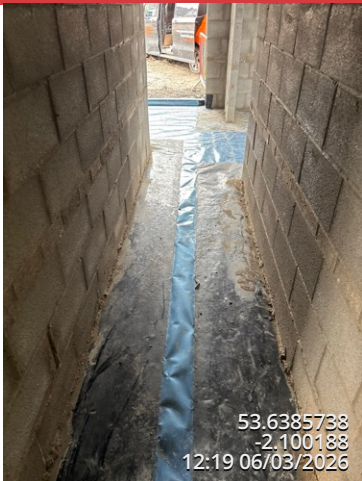
17 Photos Identified



PLOT 47 PHOTO 1



PLOT 47 PHOTO 2



PLOT 47 PHOTO 3



PLOT 47 PHOTO 4



PLOT 47 PHOTO 5



PLOT 47 PHOTO 6



PLOT 47 PHOTO 7



PLOT 47 PHOTO 8



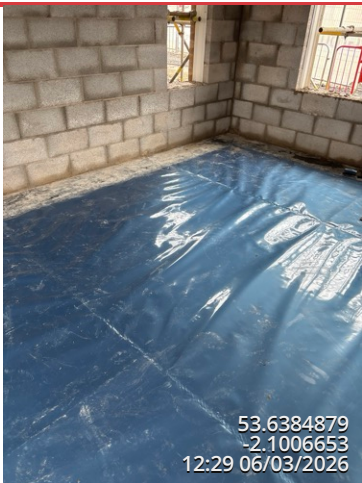
PLOT 48 PHOTO 1



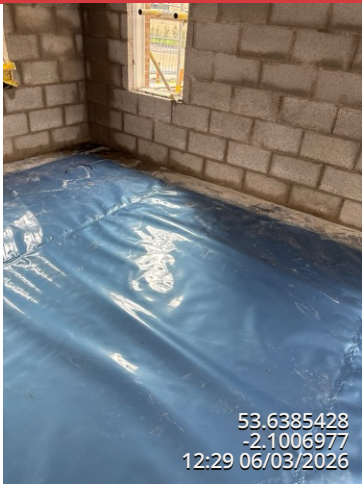
PLOT 48 PHOTO 2



PLOT 48 PHOTO 3



PLOT 48 PHOTO 4



PLOT 48 PHOTO 5



PLOT 48 PHOTO 6



PLOT 48 PHOTO 7



PLOT 48 PHOTO 8



PLOT 48 PHOTO 9





Vistry Group

PLOTS 45,46 GAS MEMBRANES AND AIR VENTS

Monday, 30 March 2026

17 Photos Identified



PLOT 45 PHOTO 1



PLOT 45 PHOTO 2



PLOT 45 PHOTO 3



PLOT 45 PHOTO 4



PLOT 45 PHOTO 5



PLOT 45 PHOTO 6



PLOT 45 PHOTO 7



PLOT 45 PHOTO 8



PLOT 46 PHOTO 1



PLOT 46 PHOTO 2



PLOT 46 PHOTO 3



PLOT 46 PHOTO 4



PLOT 46 PHOTO 5



PLOT 46 PHOTO 6



PLOT 46 PHOTO 7



PLOT 46 PHOTO 8



PLOT 46 PHOTO 9



Vistry Group

PLOTS 45,46 GAS MEMBRANES AND AIR VENTS

Monday, 30 March 2026

17 Photos Identified



PLOT 45 PHOTO 1



PLOT 45 PHOTO 2



PLOT 45 PHOTO 3



PLOT 45 PHOTO 4



PLOT 45 PHOTO 5



PLOT 45 PHOTO 6



PLOT 45 PHOTO 7



PLOT 45 PHOTO 8



PLOT 46 PHOTO 1



PLOT 46 PHOTO 2



PLOT 46 PHOTO 3



PLOT 46 PHOTO 4



PLOT 46 PHOTO 5



PLOT 46 PHOTO 6



PLOT 46 PHOTO 7



PLOT 46 PHOTO 8



PLOT 46 PHOTO 9

Vistry Group

PLOT 50 GAS MEMBRANE AND AIR BRICKS

Friday, 1 May 2026

9 Photos Identified



PHOTO 1



PHOTO 2



PHOTO 3



PHOTO 4



PHOTO 5



PHOTO 6



PHOTO 7



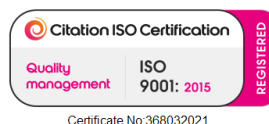
PHOTO 8



PHOTO 9

Product Specifications

T: 0191 378 6380
E: admin@arc-environmental.com
W: www.arc-environmental.com
Registered in England No. 05539784





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

T: 0191 378 6380
E: admin@arc-environmental.com
W: www.arc-environmental.com
Registered in England No. 05539784





External Door Schedule (Block 01)						
Door Ref	Type Mark	STRUCTURAL		Door Panel - Colour	Required Clear Width	Comments
		Width	Height			
B01-ED01	EDT-04	1023	2110	Dark Grey		

Window Schedule (Block 1)						
Mark	Type	STRUCTURE	Approx Inches	Safety Glass	Closing Device	Comments
		Width	Height			
L00 - Ground Floor						
001	WT-01	1473	2138	No	No	
002	WT-08	1545	1510	No	No	
003	WT-03	665	1370	No	No	
004	WT-21	1248	1050	No	No	
L01 - First Floor						
005	WT-07	1545	1360	Yes	No	
006	WT-26	665	1135	No	Yes	
008	WT-03	665	1370	No	Yes	
009	WT-03	665	1370	Yes	No	
010	WT-07	1545	1360	No	No	
011	WT-05	665	1210	No	Yes	
012	WT-26	1248	1140	No	Yes	
013	WT-28	1248	1360	Yes	No	
014	WT-28	1248	1360	No	Yes	
015	WT-02	665	1210	No	Yes	
016	WT-02	665	1210	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)

Wall Legend

	Below FF, External Cavity Wall: • 105mm brick outer leaf • 105mm cavity • 105mm cavity fully filled with insulation • 105mm brick 7.3mm/2mm Standarde Plaster Aglite Ultra blockwork
	Above FF, External Cavity Wall: • 105mm brick outer leaf • 105mm cavity • 105mm cavity fully filled with insulation • 105mm brick 7.3mm/2mm Standarde Plaster Aglite Ultra blockwork • 25mm glassfaced on outside with skim finish
	Below FF, Internal Cavity Wall (insulated): • 105mm brick 7.3mm/2mm Standarde Plaster Aglite Ultra blockwork • 105mm cavity • 105mm cavity fully filled with insulation • 105mm brick 7.3mm/2mm Standarde Plaster Aglite Ultra blockwork • 25mm glassfaced on inside with skim finish
	Below FF, Separating Cavity Wall (insulated): • 105mm brick 7.3mm/2mm Standarde Plaster Aglite Ultra blockwork • 105mm cavity • 105mm cavity fully filled with insulation • 105mm brick 7.3mm/2mm Standarde Plaster Aglite Ultra blockwork • 25mm glassfaced on outside with skim finish
	25mm Plaster: • 105mm brick 7.3mm/2mm Standarde Plaster Aglite Ultra blockwork
	Load Bearing Internal Wall: • 105mm brickwork on outside with skim finish • 105mm brick 7.3mm/2mm Standarde Plaster Aglite Ultra blockwork • 25mm glassfaced on inside with skim finish

Key

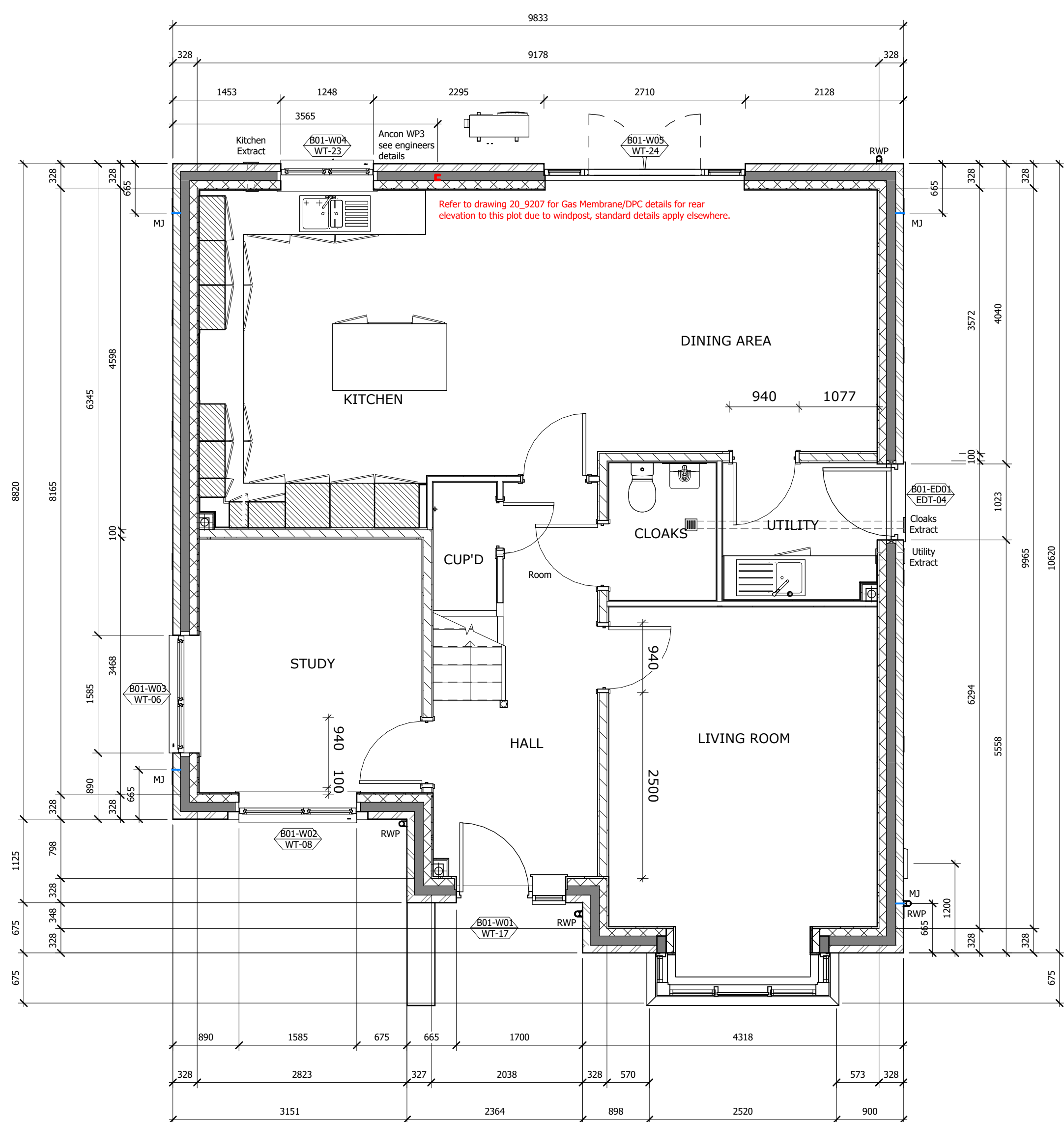
- Air Bricks
- Vent Area Lo-Carbon NBN eMBY C with rigid ducts
- Rain Water Downpipe
- Perimeter Cavity Wall Vents
- Vent Area Lo-Carbon NBN eMBY C with rigid ducts within floor void
- SVP & Direct to Drain Connections
- RC lintel over airbrick adjacent to Nupuan corner joint
- Vent Area Lo-Carbon NBN eMBY C with rigid ducts within floor void to roof of the vent
- Incoming Water Entry Point
- Electric Meter Box Location
- Movement Joint Locations - (Engineers drawing locations)
- ASPH Heat Exchanger, (to be located a minimum 1m from plot boundary)
- Floor Span Direction (subject to sub-contractor design drawings)
- 30 minute Integrity & 15 minutes Insulation Vertical Memory Wall Cavity Barrier
- Structural Steelwork, roof of engineers drawings and specification (engineers drawings takes precedence)
- Incoming Water
- Telecoms
- Electricity

General Note

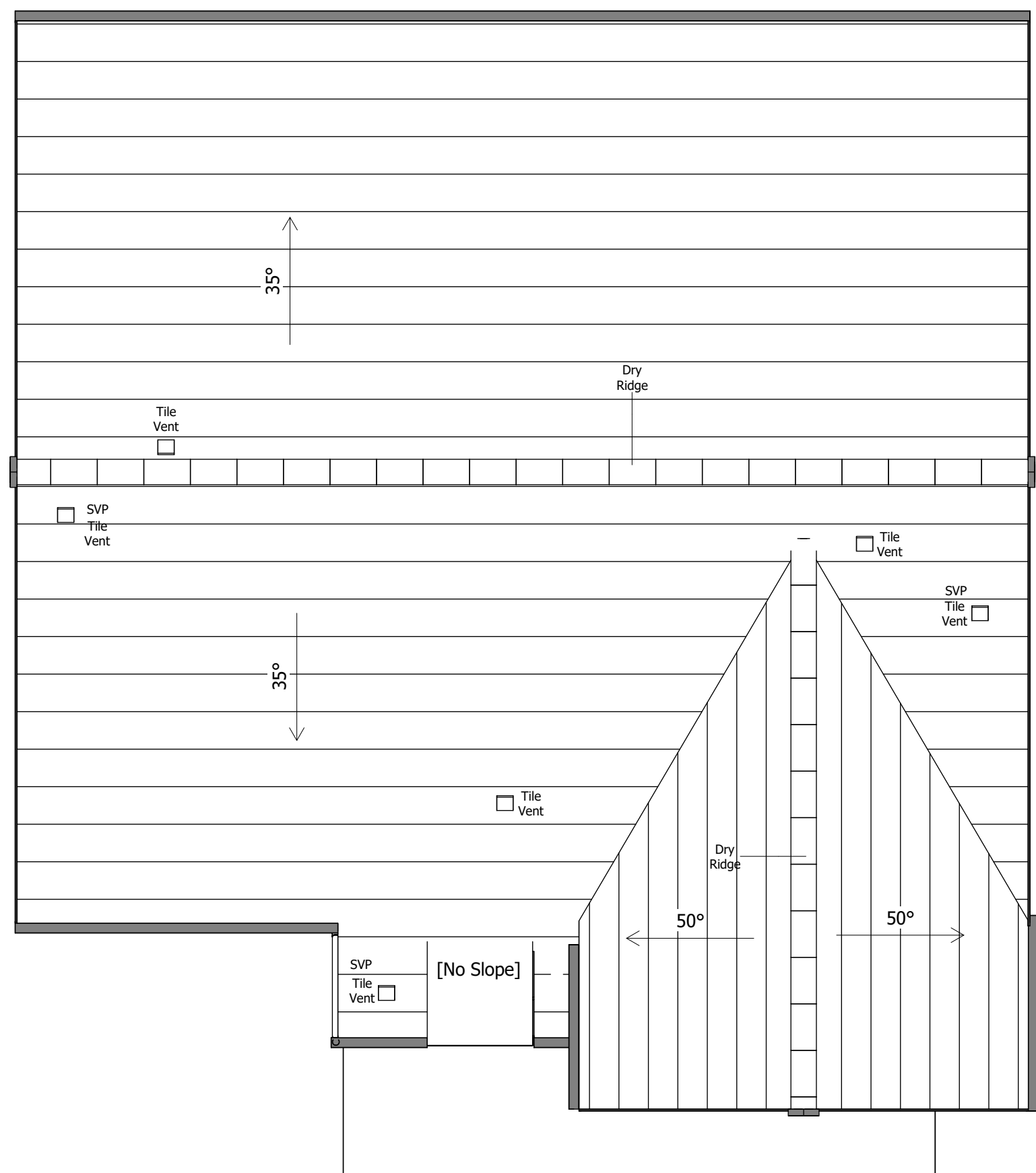
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Risks

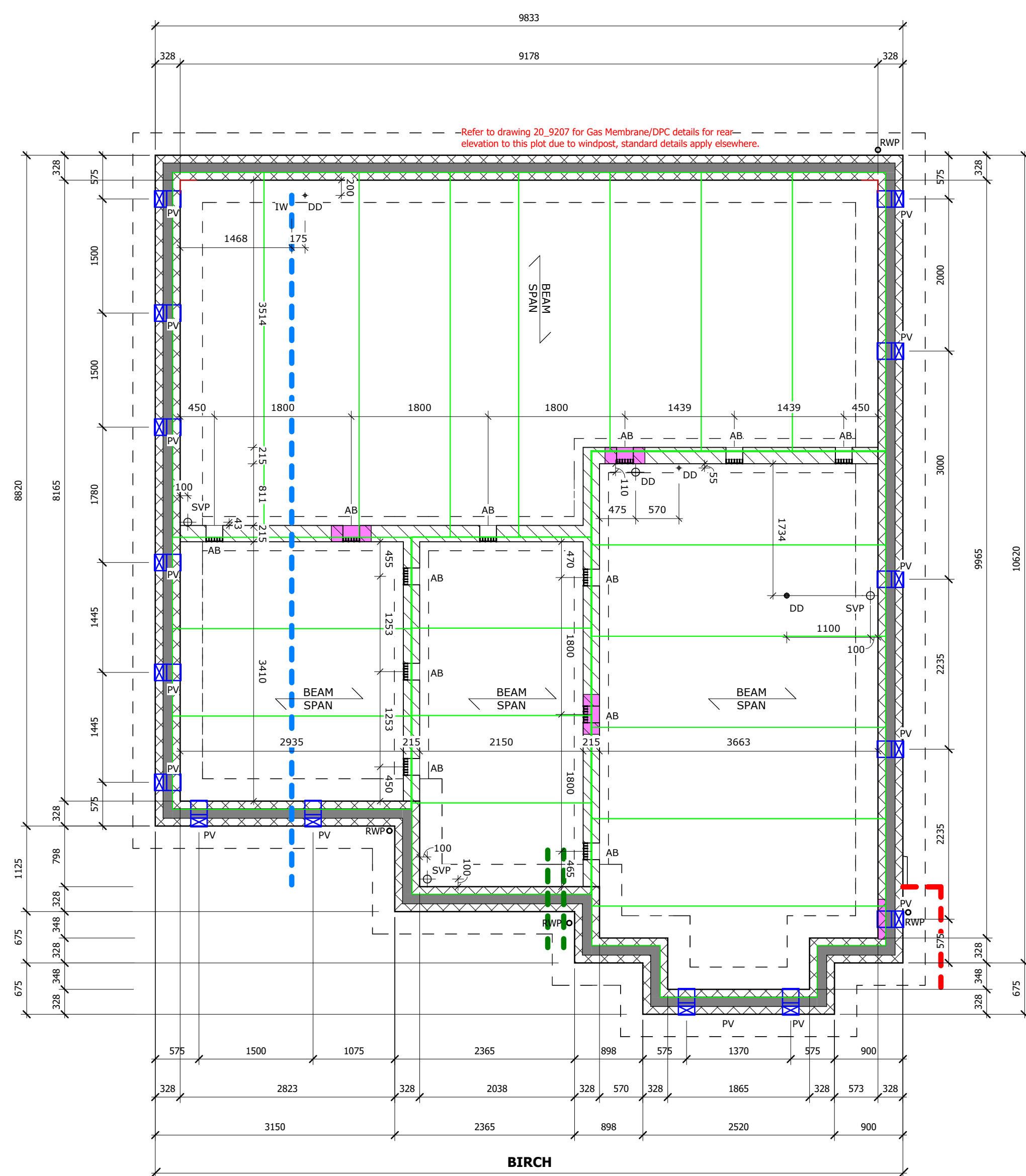
Lifting Hazard	Risk of Falling	Risk of Collapse
Risk of Falling Object	Consideration for High Level Access	Risk of Explosion



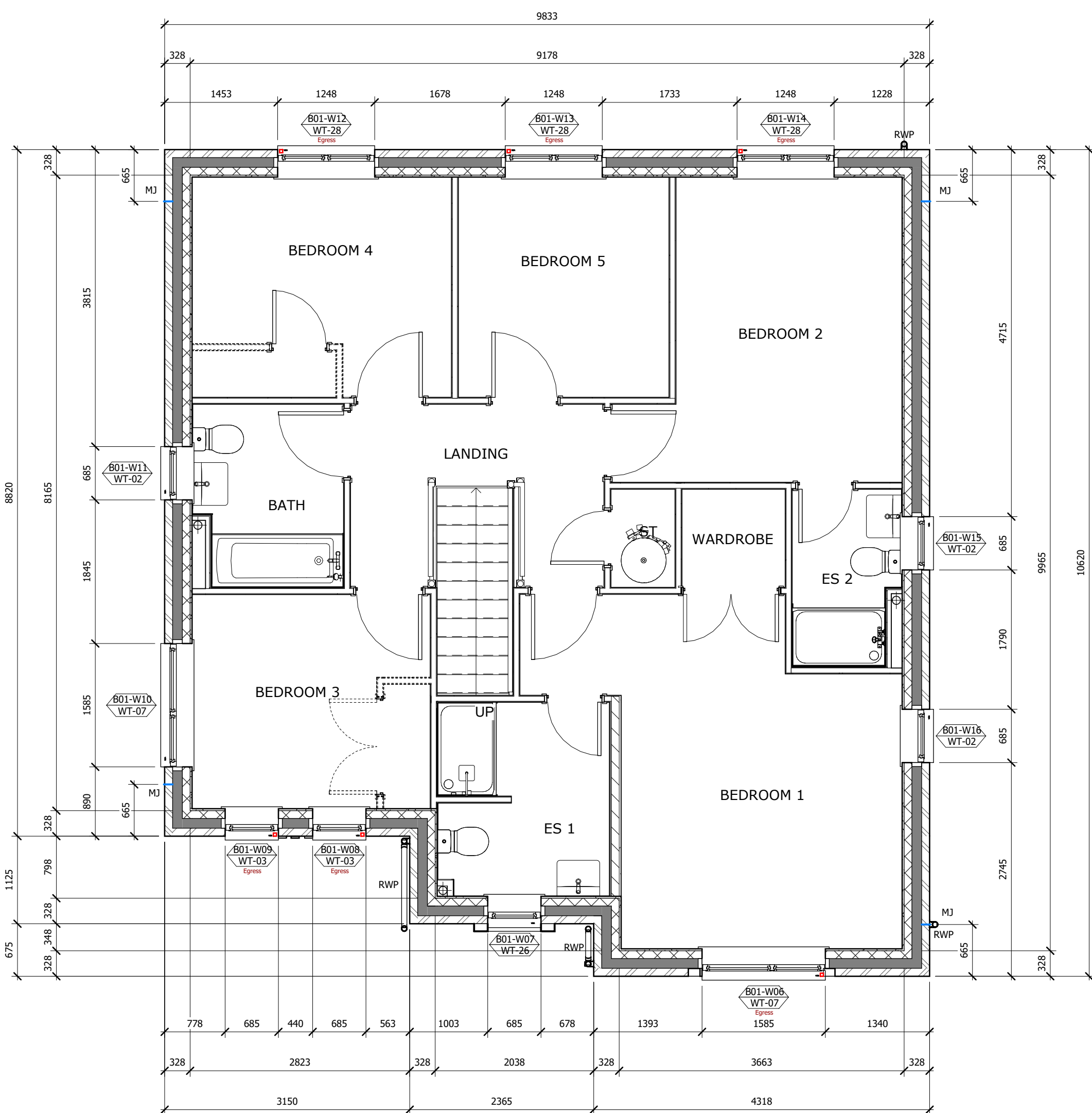
Ground Floor Plan
1 : 50



Roof Plan
1 : 50



Substructure Plan



First Floor Plan
1 : 50

P7	14.06.24	DW	AH	Substructure Updated
P6	13.05.24	DW	AH	Dimas added to internal masonry to set out openings
P5	02.05.24	DW	AH	Draws 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 dMew updated.
P2	01.09.23	KK	DW	Updated to suit client comments.
P1	02.06.23	ME	DW	Floor plans added to sheets. Additional information added to substructure plans.

Rev:	Date:	Drawn:	Checked:	Description:
Suitability:				

S0	Work In Progress
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Hollin Gate, Littleborough

GA Block Plans - Plot
Block 1

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: (BA0)	Int. Job No:
Nov 22	MI	DW	1 : 50	4046-001

WATSON BATH
ARCHITECTS

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Leeds | Loughborough
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E: enquiries@watsonbatty.com
W: www.watsonbatty.com

FUTURE BUILT

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

External Door Schedule (Block 30)						
Door Ref	Type Mark	STRUCTURAL		Door Panel - Colour	Required Clear Width	Comments
		Width	Height			
B30-ED01	EDT-04	1023	2110	Dark Grey		

Window Schedule (Block 30)

Mark	Type	Mark	STRUCTURAL		Egress	Safety	Elevator	Comments
			Window	Height				
U0 - Ground Floor								
EW-001	WT-01	1585	1550	No	Yes	No		
EW-002	WT-02	1918	2110	No	Yes	No		
EW-003	WT-03	1585	1550	No	Yes	No		
EW-004	WT-04	1685	1550	No	Yes	No		
EW-005	WT-05	1585	1500	No	Yes	No		
EW-006	WT-23	1248	1210	No	Yes	No		
EW-007	WT-24	1210	1210	No	Yes	No		
EW-008	WT-23	1248	1210	No	Yes	No		
EW-009	WT-01	1685	1600	No	Yes	No		
U1 - First Floor								
EW-010	WT-07	1585	1300	Yes	No	No		
EW-011	WT-02	1685	1210	No	Yes	No		
EW-012	WT-03	1685	1300	Yes	No	No		
EW-013	WT-03	1685	1300	Yes	No	No		
EW-014	WT-03	1685	1300	Yes	No	No		
EW-015	WT-03	1685	1300	Yes	No	No		
EW-016	WT-02	1685	1210	No	Yes	No		
EW-017	WT-02	1685	1210	No	Yes	No		
EW-018	WT-07	1585	1300	Yes	No	No		
EW-019	WT-23	1248	1210	No	Yes	No		
EW-020	WT-23	1248	1210	No	Yes	No		
EW-021	WT-23	1248	1300	Yes	No	No		
EW-022	WT-23	1248	1300	Yes	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

BED 1 - 20 l/s
BED 2 - 20 l/s
BED 3 - 20 l/s
BED 4 - 20 l/s

For detail system design refer to VENT AXIA

Wall Legend

	Below FF, External Cavity Wall: - 100mm stone over insulation - 100mm cavity - 100mm cavity fully filled with insulation - 100mm thick 2.0min ² Standard Plaster Aggregate Ultra blockwork
	Above FF, External Cavity Wall: - 20mm render - 100mm thick 2.0min ² Standard Plaster Aggregate Ultra blockwork - 125mm cavity filled with insulation - 100mm thick 2.0min ² Standard Plaster Aggregate Ultra blockwork - 12.5mm plasterboard on studs with skim finish
	Below FF, Separating Cavity Wall: Robust Detail: E-WM3-36 - 100mm thick 2.0min ² Standard Plaster Aggregate Ultra blockwork - 100mm cavity fully filled with insulation - 100mm thick 7.3min ² Standard Plaster Aggregate Ultra blockwork
	Above FF, Separating Cavity Wall: Robust Detail: E-WM3-36 - 100mm thick 2.0min ² Standard Plaster Aggregate Ultra blockwork - 100mm thick 7.3min ² Standard Plaster Aggregate Ultra blockwork - 100mm cavity fully filled with insulation - 100mm thick 7.3min ² Standard Plaster Aggregate Ultra blockwork - 12.5mm plasterboard on studs with skim finish
	'Slopeo' Wall: - 215mm thick 7.3min ² Standard Plaster Aggregate Ultra blockwork

Key

- Air Bricks
- Vent Aids Carbon NBR dMEV c (with rigid ducts)
- Rain Water Downpipe
- Electric Meter Box Location
- Periscope Cavity Wall Vents
- Vent Aids La Carbon NBR dMEV c (with rigid ducts within floor level)
- SWP Connect to Drain Connections
- Vent Aids La Carbon NBR dMEV c (with rigid ducts within roof level)
- Roof Panel Direction (subject to sub-central design drawings)
- 30 minute Integrity & minutes Insulation Vents
- Heavy Duty Vents
- Structural Studwork, Engineers drawings and Architects drawings take precedence
- Incoming Water
- Telephones
- Roof Panel Direction (subject to sub-central design drawings)
- 30 minute Integrity & minutes Insulation Vents
- Heavy Duty Vents
- Structural Studwork, Engineers drawings and Architects drawings take precedence

General Notes

[illegible]

Risks					
-	Lifting Hazard	-	Risk of Falling	-	Risk of Collision
-	Risk of Falling Object	-	Consideration for High Level Access	-	Risk of Exposure

Ground Floor Plan
1 : 50

Roof Plan

Substructure Plan

First Floor Plan
1 : 50

P8	14.06.24	DW	AH	Substructure Updated
P7	13.05.24	DW	AH	Drins added to internal masonry to set out open
P6	02.05.24	DW	AH	Drins to internal blockwork added.
P5	25.04.24	DW	AH	Drawings coordinated with 3rd party and engine information.
P4	17.01.24	DW	JT	Vent Axia Cool Box System schedule
P3	10.10.23	KK	DW	Wall Legend and spec of mVew 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

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

LP#W Originator Zone Level Type Role Series/Number
HOLL-WBA-XX-XX-DR-A-20 2011

Date:	Drawn:	Checked:	Scale: (S/A0)	Int:
Nov 22	MI	DW	1 : 50	40

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

Wall Legend

Below RF, External Cavity Wall:

- 12.5mm thick concrete on 100mm concrete
- 100mm thick fully filled with insulation
- 12.5mm thick 7.3mm³ Standard Nipage Aglite Ultra blockwork.

Below RF, Cavity Wall:

- 12.5mm thick concrete on 100mm concrete
- 100mm stone core cavity
- 100mm thick 7.3mm³ Standard Nipage Aglite Ultra blockwork.
- 12.5mm thick 7.3mm³ Standard Nipage Aglite Ultra blockwork.

Below RF, Separating Cavity Wall - Robust Detail, E03H-36:

- 12.5mm thick concrete on 100mm concrete
- 100mm thick 7.3mm³ Standard Nipage Aglite Ultra blockwork.
- 100mm thick 7.3mm³ Standard Nipage Aglite Ultra blockwork.
- 12.5mm thick 7.3mm³ Standard Nipage Aglite Ultra blockwork.

Above RF, Separating Cavity Wall - Robust Detail, E03H-36:

- 12.5mm thick concrete on 100mm concrete
- 100mm thick 7.3mm³ Standard Nipage Aglite Ultra blockwork.
- 100mm thick 7.3mm³ Standard Nipage Aglite Ultra blockwork.
- 12.5mm thick 7.3mm³ Standard Nipage Aglite Ultra blockwork.

Below RF, Cavity Wall with slim fin:

- 12.5mm thick concrete on 100mm concrete
- 100mm thick 7.3mm³ Standard Nipage Aglite Ultra blockwork.
- 12.5mm thick 7.3mm³ Standard Nipage Aglite Ultra blockwork.

Slipper Wall:

- 12.5mm thick 7.3mm³ Standard Nipage Aglite Ultra blockwork.

Load bearing Internal Wall:

- 12.5mm thick concrete on data with slim fin
- 100mm thick 7.3mm³ Standard Nipage Aglite Ultra blockwork.
- 12.5mm thick 7.3mm³ Standard Nipage Aglite Ultra blockwork.

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

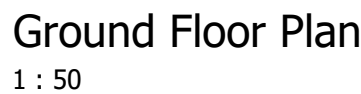
BED 1 - 20 l/s
BED 2 - 20 l/s

BED 3 - 20 l/s
BED 4 - 20 l/s

For detail system design refer to VENT AXIA.

[illegible]

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



Rev:	Date:	Drawn:	Checked:	Description:

Hollin Gate, Littleborough

GA Block Plans - Plot 13
Block 28

Location:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

HOLL-WBA-XX-XX-DR-A-20_2013 **P9**

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

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

[illegible]

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

Wall Legend

	Below FF, External Cavity Wall 100mm stone outer leaf 125mm cavity fully filled with insulation. 100mm 7.5mm Standard Planer Aglite Utracork.
	Above FF, External Cavity Wall 100mm stone outer leaf 125mm cavity fully filled with insulation. 100mm 7.5mm Standard Planer Aglite Utracork.
	Below FF, Separating Cavity Wall - Robert Detail E-WH-36 100mm stone outer leaf 125mm cavity fully filled with insulation. 100mm 7.5mm Standard Planer Aglite Utracork.
	Above FF, Separating Cavity Wall - Robert Detail E-WH-36 100mm stone outer leaf 125mm cavity fully filled with insulation. 100mm 7.5mm Standard Planer Aglite Utracork.
	Sleeper Wall 210mm 7.5mm 7.5mm Standard Planer Aglite Utracork.
	Load Bearing Internal Wall 125mm plasterboard on dabs with slon finish. 100mm 7.5mm Standard Planer Aglite Utracork. 125mm plasterboard on dabs with slon finish.

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

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

[illegible]

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



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

Hollin Gate, Littleborough

GA Block Plans - Plot 29
Block 7

Locations:
Hollingworth Road
Littleborough

Client:
Countryside Partnerships

UPPN Originator Zone Level Type Role Series/Number Revision:

HOLL-WBA-XX-XX-DR-A-20_2026 P8

Date: Drawn: Checked: Scale: (BA0) Int Job No:

Nov 22 MI DW 1 : 50 4046-001

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

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

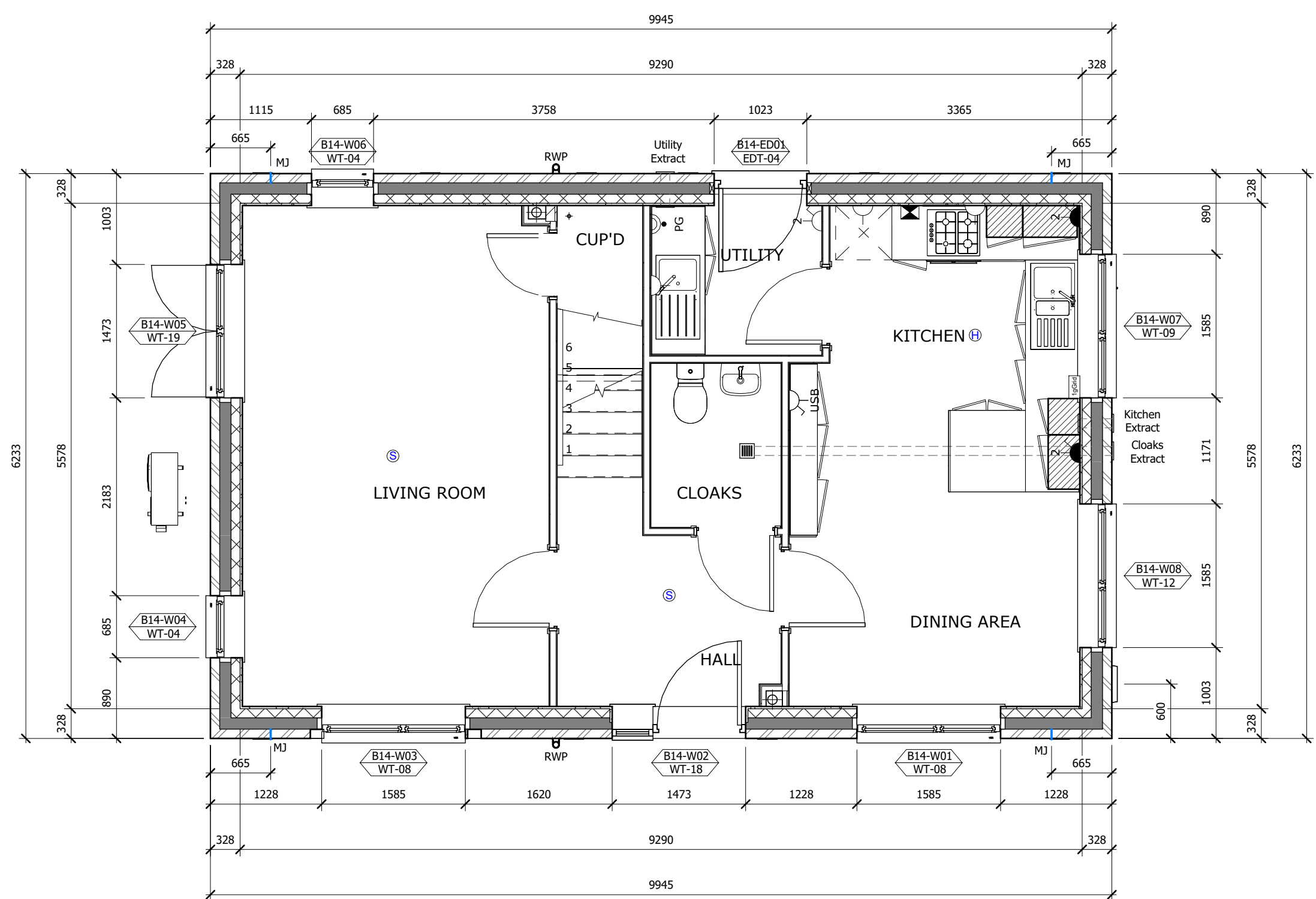
L00 - Ground Floor							
B14-W01	WT-08	1585	1510	No	Yes	No	
B14-W02	WT-18	1473	2110	No	Yes	No	
B14-W03	WT-08	1585	1510	No	Yes	No	
B14-W04	WT-04	585	1510	No	Yes	No	
B14-W05	WT-19	1473	2110	No	Yes	No	
B14-W06	WT-04	585	1510	No	No	Yes	
B14-W07	WT-09	1585	1060	No	No	No	
B14-W08	WT-12	1585	1510	No	Yes	No	

I01 - First Floor							
B14-W09	WT-02	665	1210	No	No	No	
B14-W10	WT-02	665	1210	No	No	Yes	
B14-W11	WT-07	1585	1360	Yes	No	No	
B14-W12	WT-02	665	1210	No	No	No	
B14-W13	WT-02	665	1210	No	No	No	
B14-W14	WT-02	665	1210	No	No	Yes	
B14-W15	WT-02	665	1210	No	No	Yes	
B14-W16	WT-11	1585	1360	Yes	No	No	
B14-W17	WT-03	665	1360	Yes	No	No	
B14-W18	WT-03	665	1360	Yes	No	No	

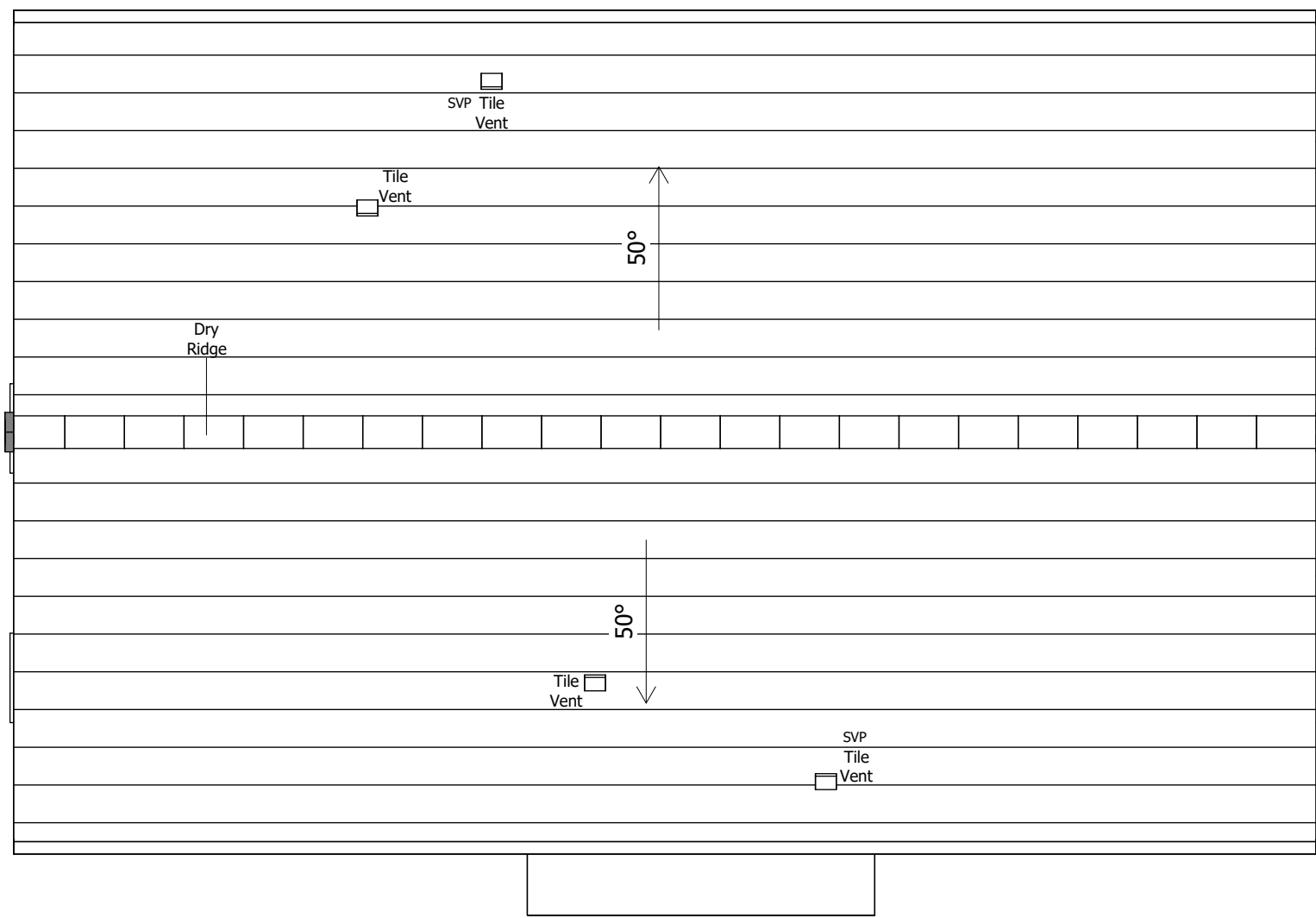
Glazing and Trickle Vent Requirements

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

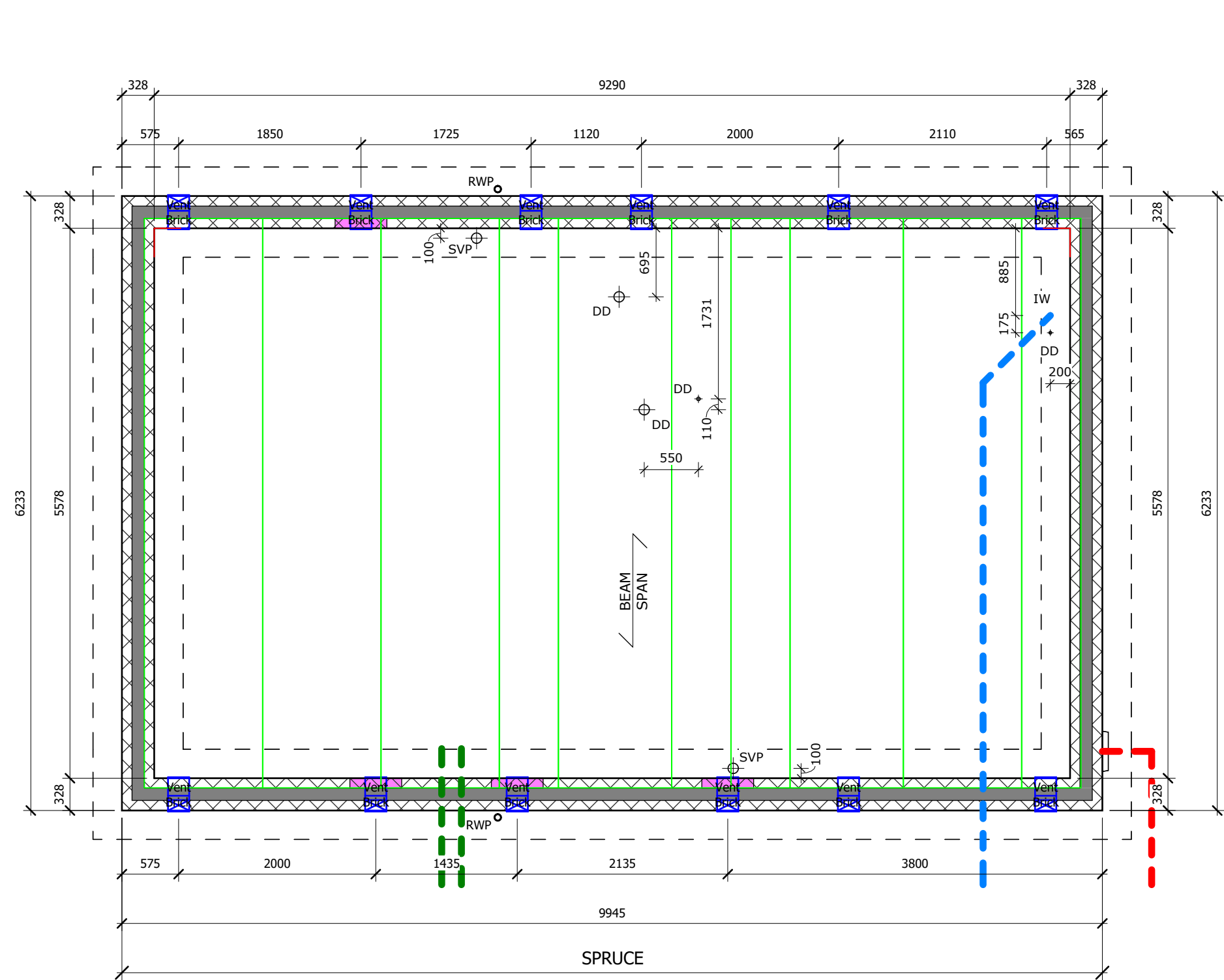
First Floor
28dB R(w+Ctr) Glazing & 32dB D(n, e, w) Trickle or Wall Vent (to habitable rooms only)

Plot Mechanical Ventilation Requirements - Vent Axia Cool Box System
REF: 1 - 20 Hz

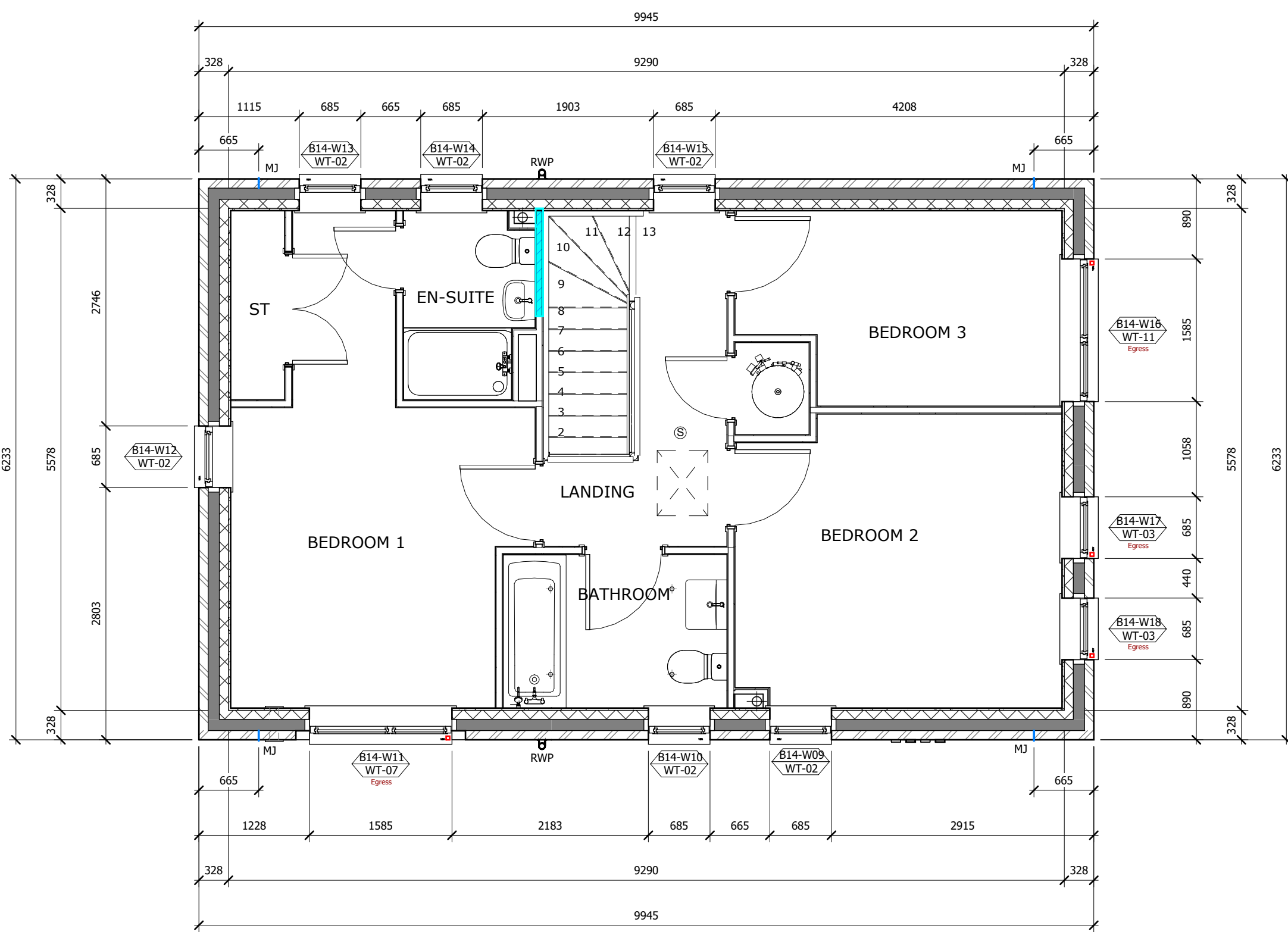
Ground Floor Plan
1 : 50



Roof Plan
1 : 50



Substructure Plan

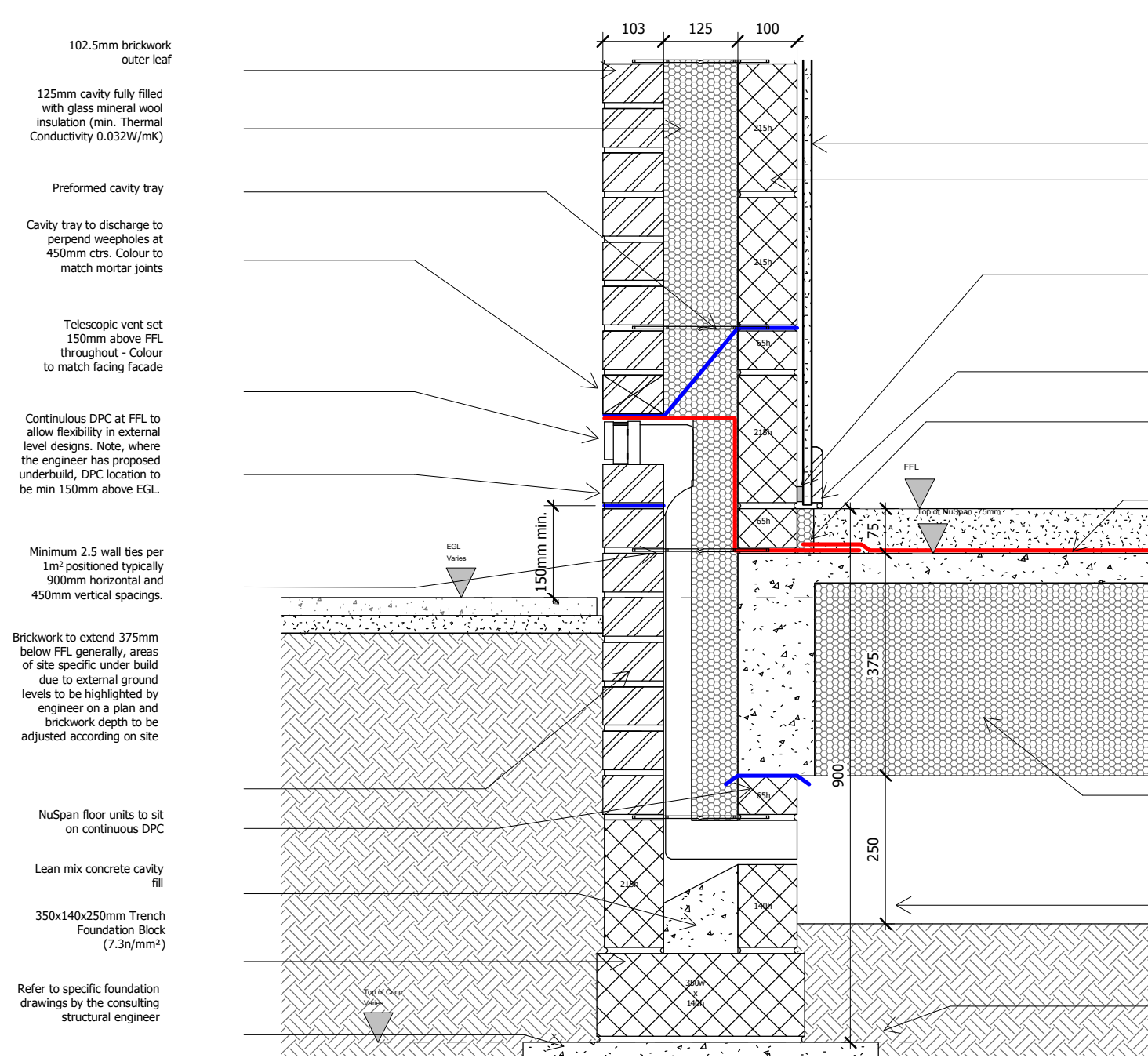


First Floor Plan
1 : 50

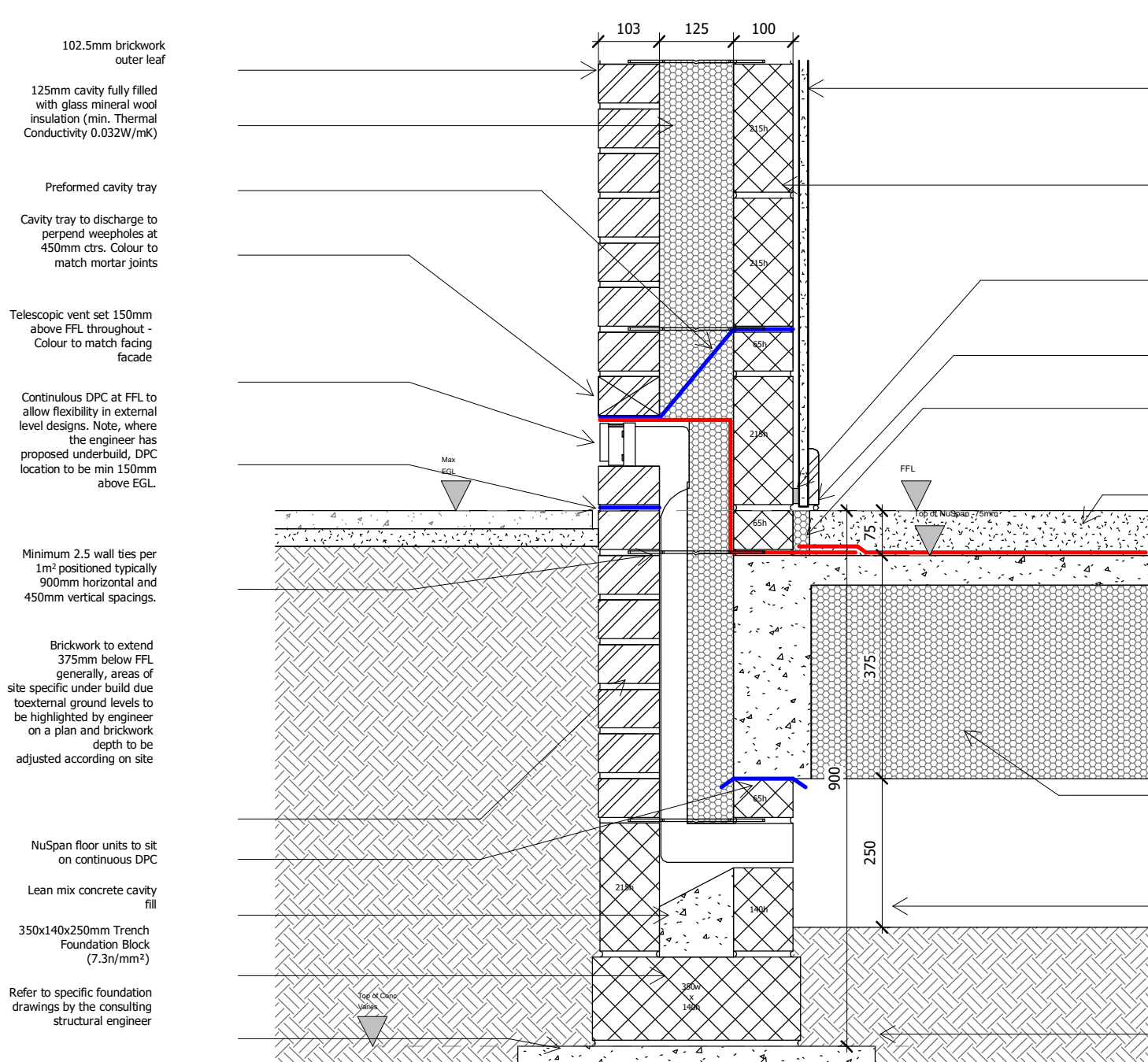
[illegible]

P5	14.06.24	DW	AH	Substructure updated
P5	23.04.24	DW	AH	Drawing coordinated with 3rd party and engineers' information.
P5	23.04.24	DW	IT	Well aware Civil Box System schedule
P2	10.12.23	KJ	AW	Well aware and up to date comments.
P2	10.12.23	KJ	DW	Well aware and up to date comments.
P1	02.06.23	NE	AW	These plans added to scheme. Additional information added to substructure plans.

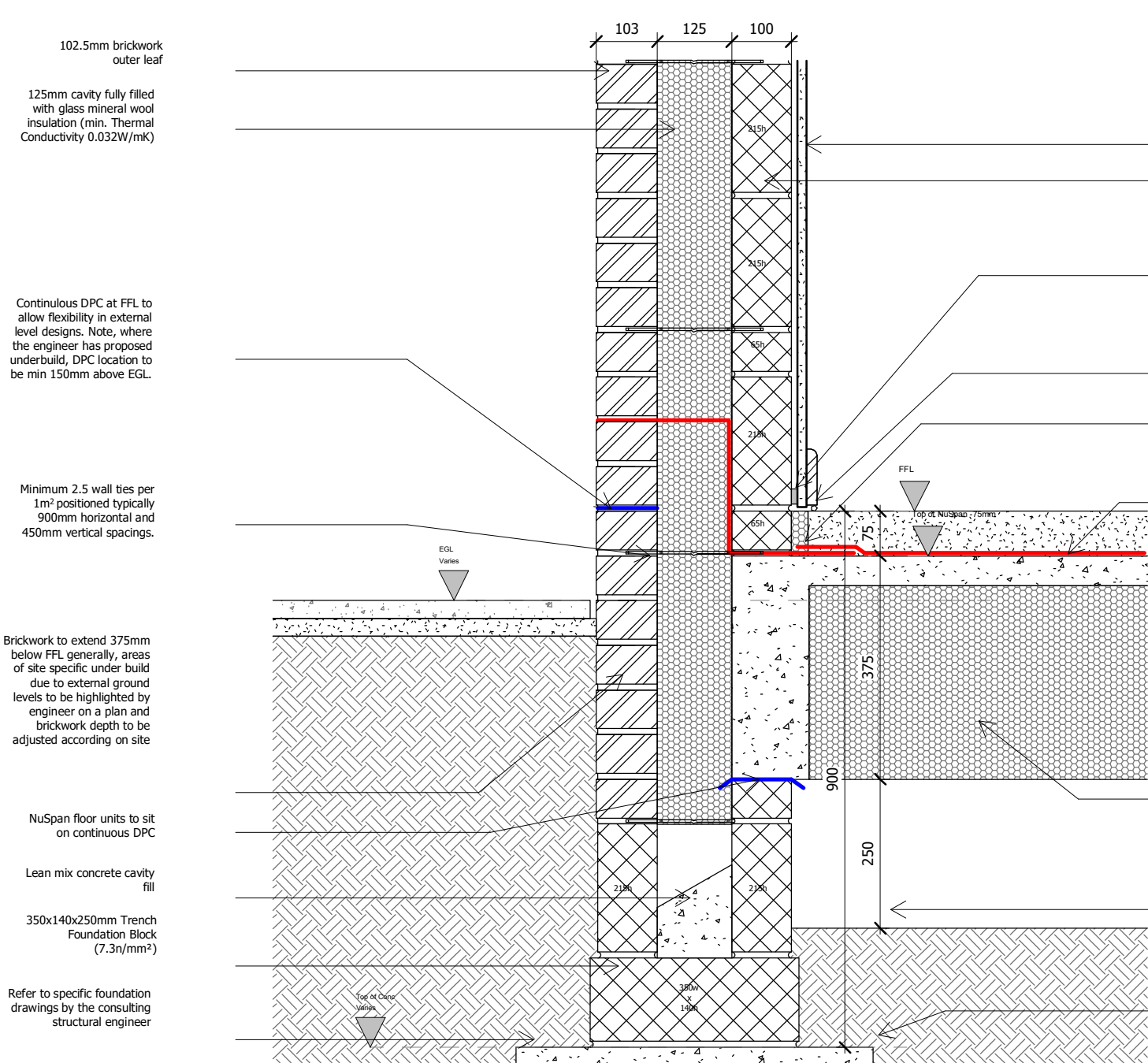
New:	Drawn:	Checked:	Description:	
S0 Work In Progress				
Hollin Gate, Littleborough				
GA Block Plans - Plot 43 Block 14				
Hollingworth Road Littleborough				
Client: Countryside Connections				
Ref: HOLL-WBA-XX-XX-DR-A-20_2038		Rev: P6		
Date: Nov 22	Drawn: DM	Checked: DW	Scale: 1:50	Int Job No: 4046-001
WATSON BATTY ARCHITECTS				
Shires House, Shires Road Gusleyfield, Leeds LS20 8EU Leeds Loughborough				
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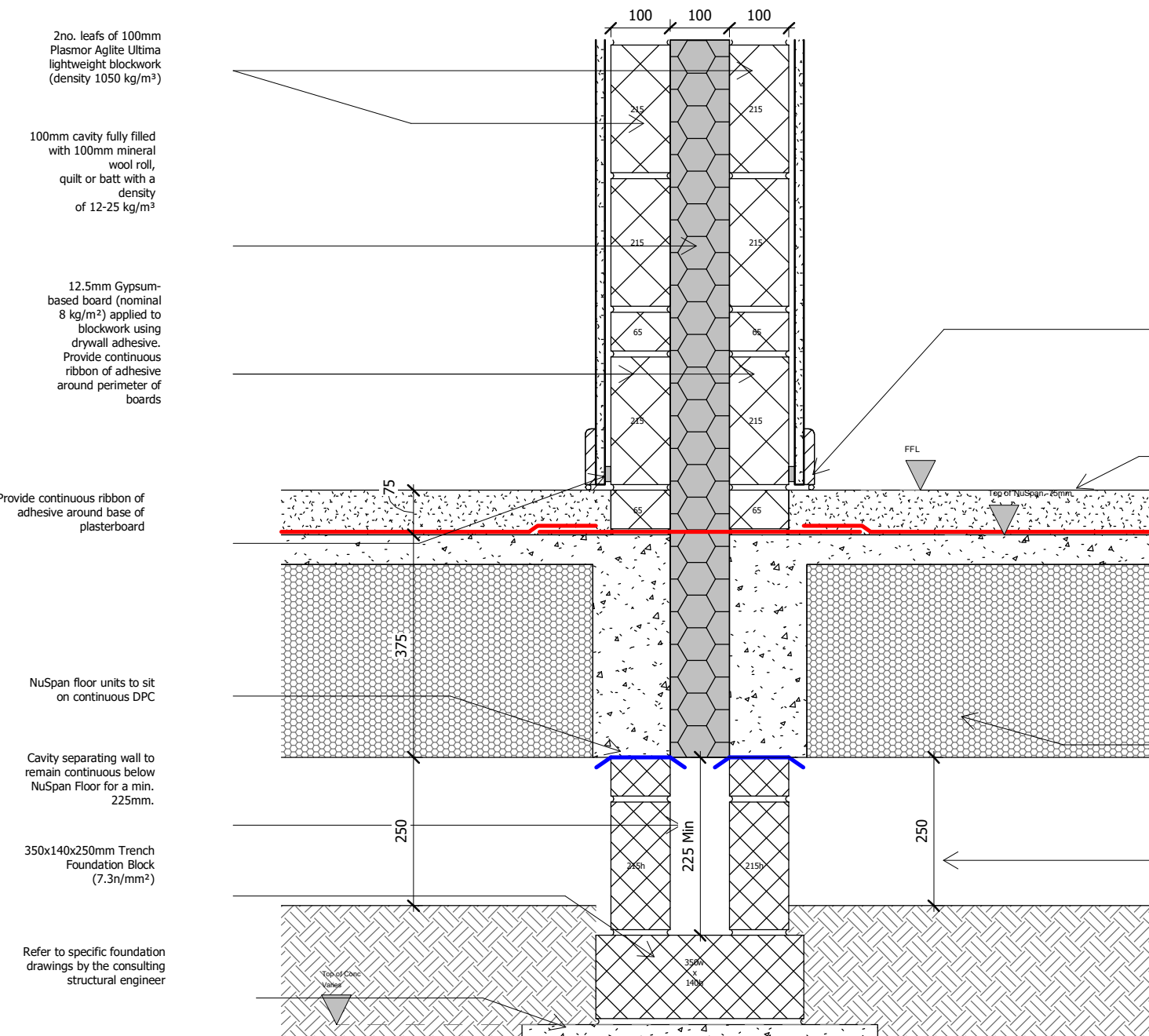
Brick External Wall / Ground Floor Junction
External Ground Level -150



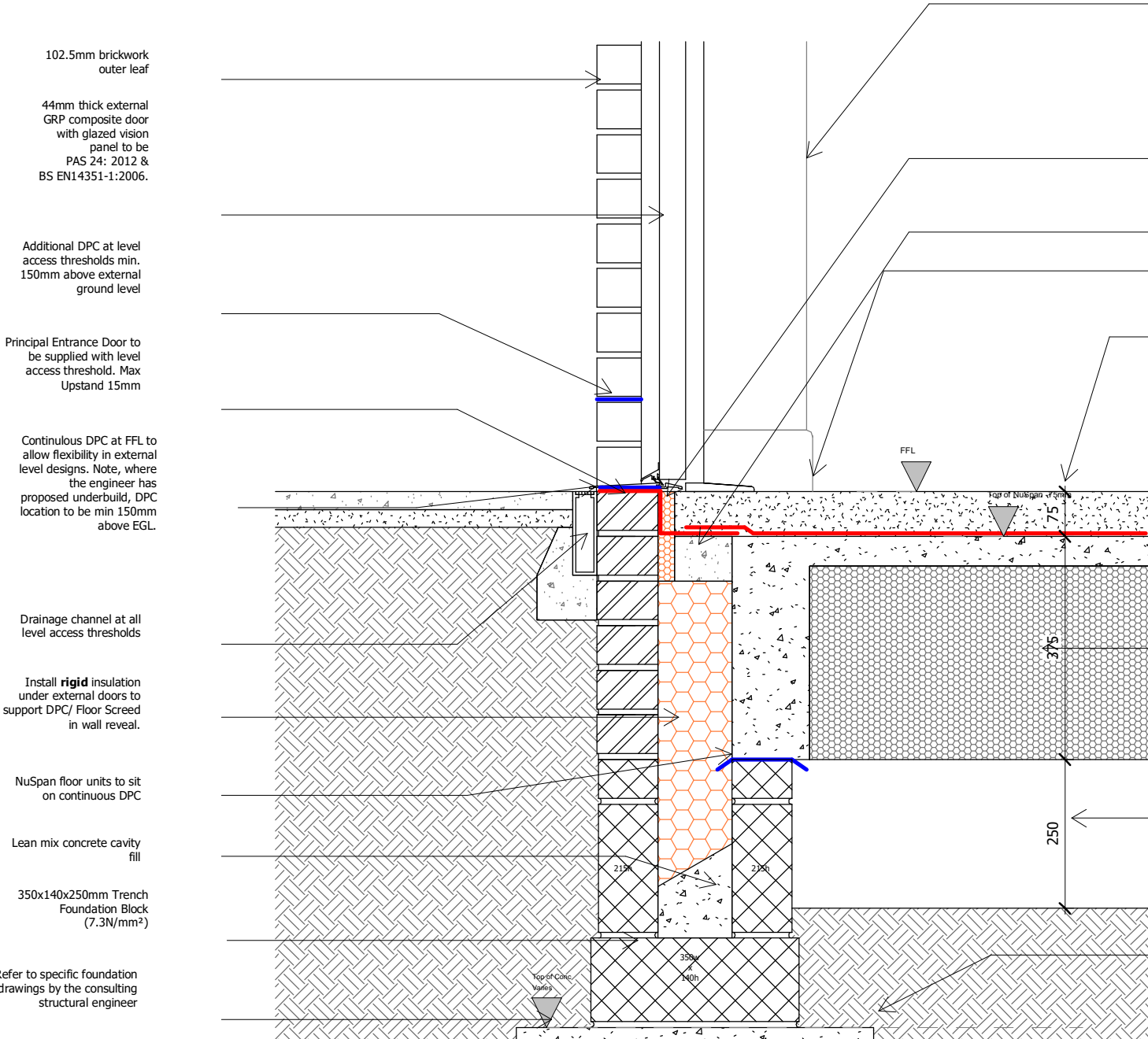
Brick External Wall / Ground Floor Junction
Max External Ground Level



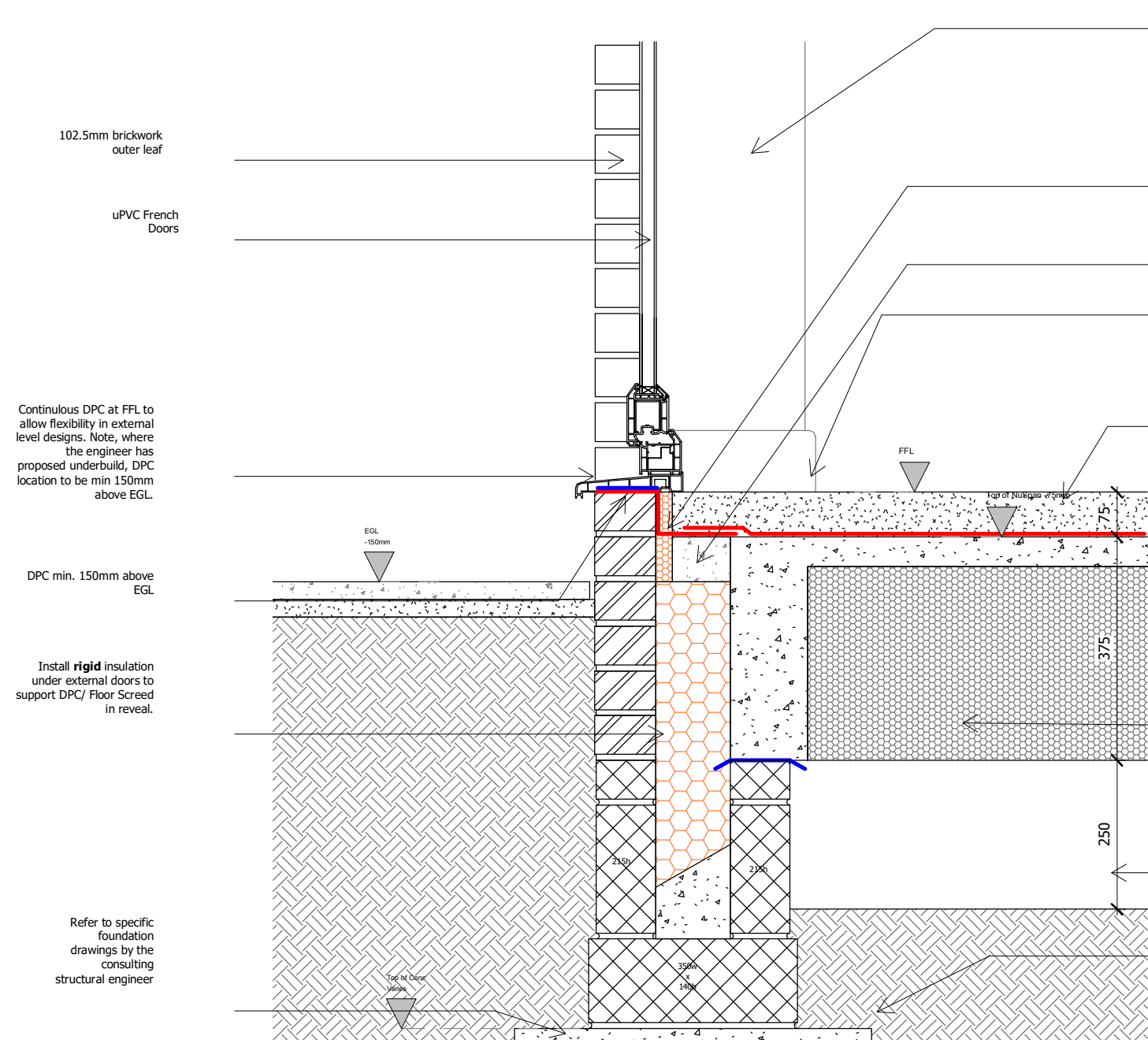
Brick External Wall / Ground Floor Junction
External Ground Wall Level -150



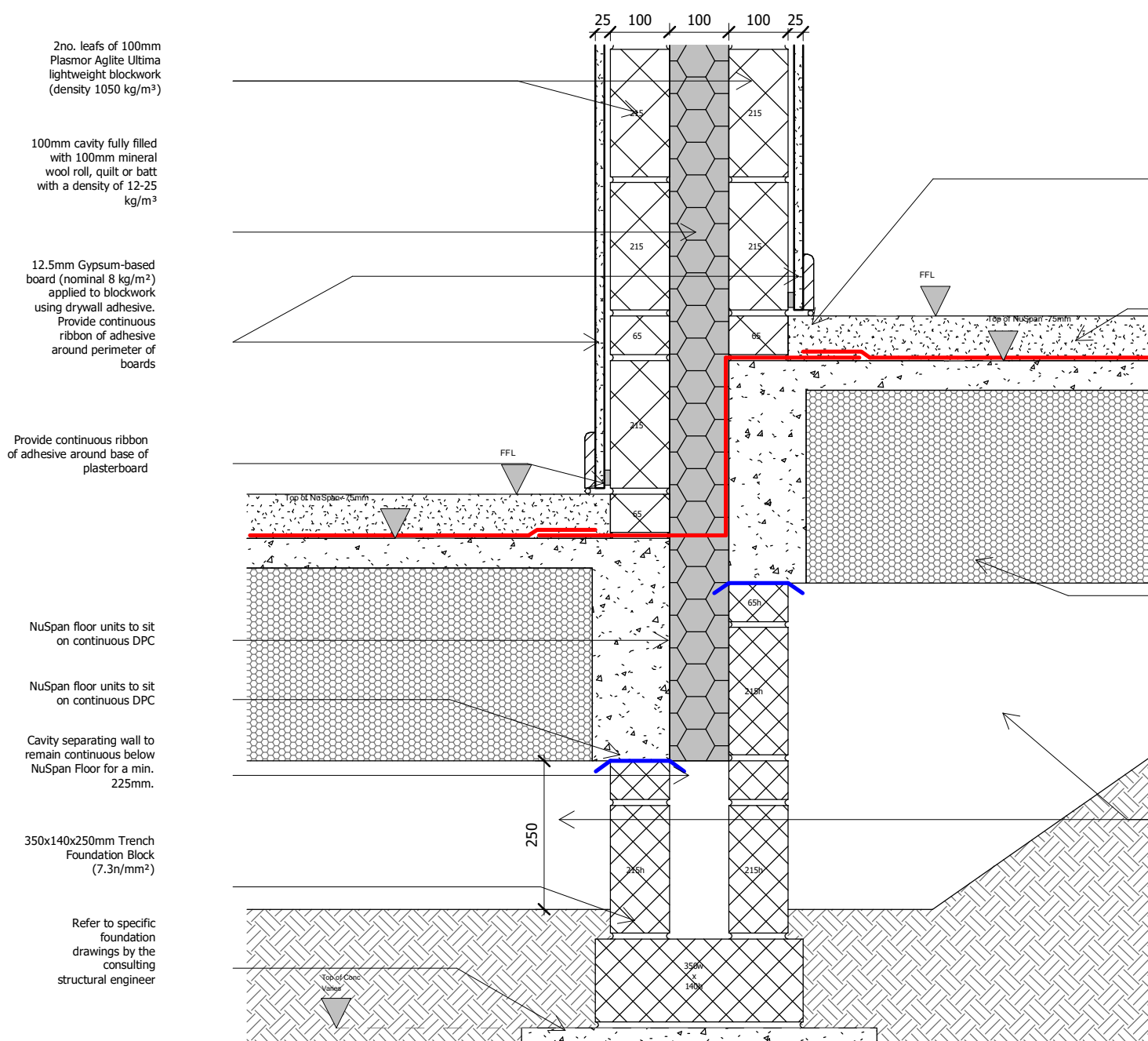
Separating Wall / Ground Floor Junction
Robust Detail E-WM-34



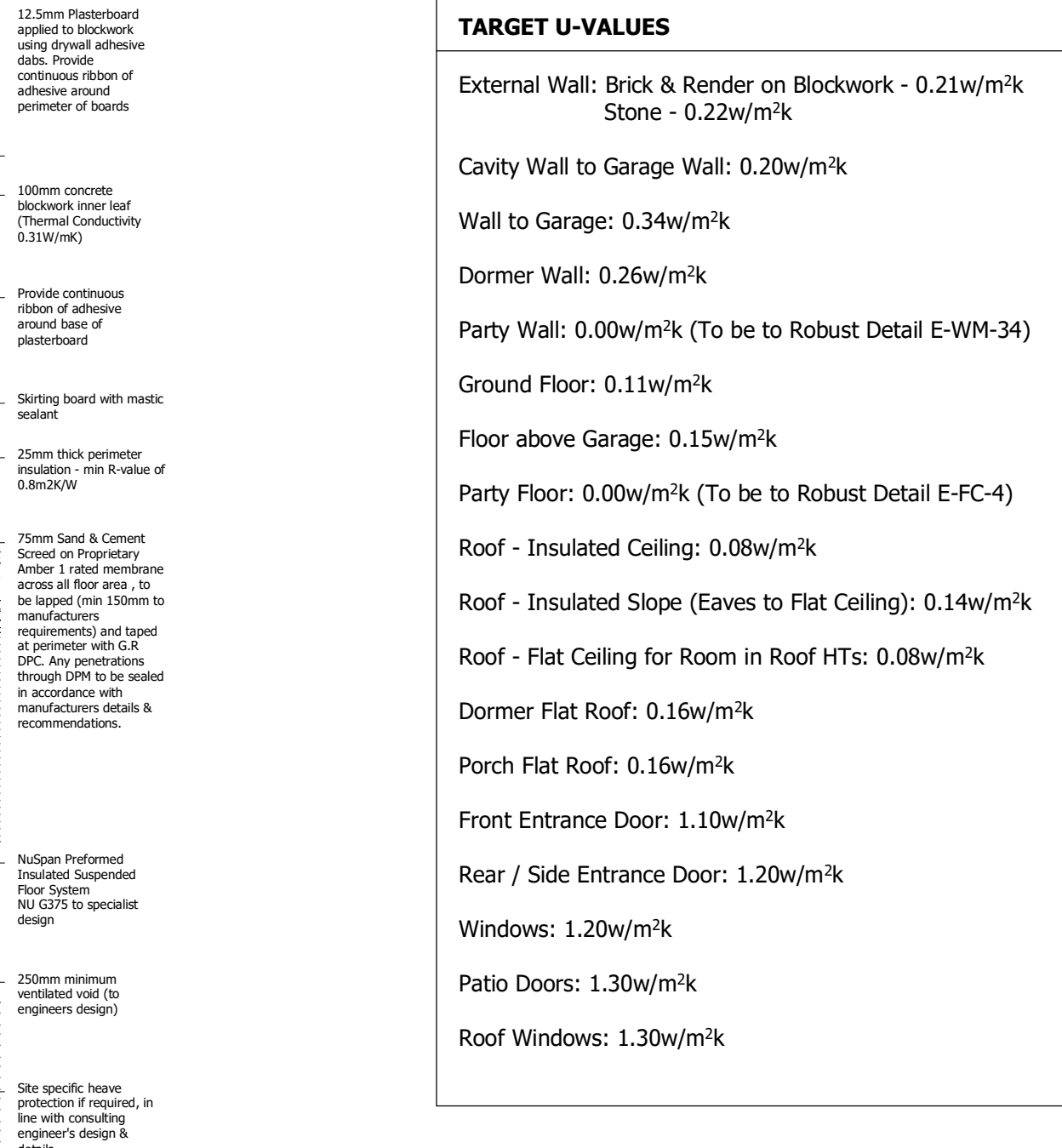
Brick External Wall / Ground Floor Threshold Junction
Level Access Principle Entrance Doors



Brick External Wall / Ground Floor Threshold Junction
Patio Doors



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



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.

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			

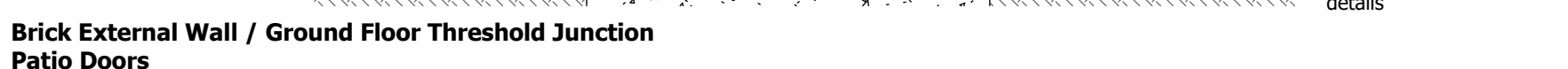
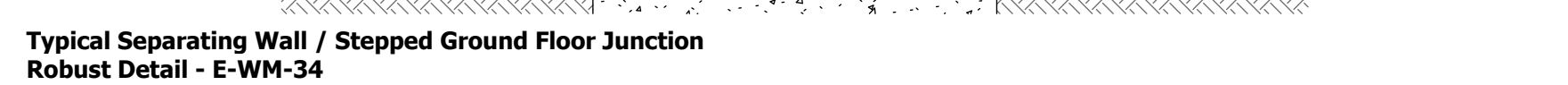
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Note: Do not Scale from this drawing. All dimensions to be checked on site



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.

Order:	Date:	Drawn:	Checked:	Description:
Stability:				
S0	Work In Progress			

Assembly Details - Brick - Sheet 1

Location:
Hollingworth Road
Littleborough

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

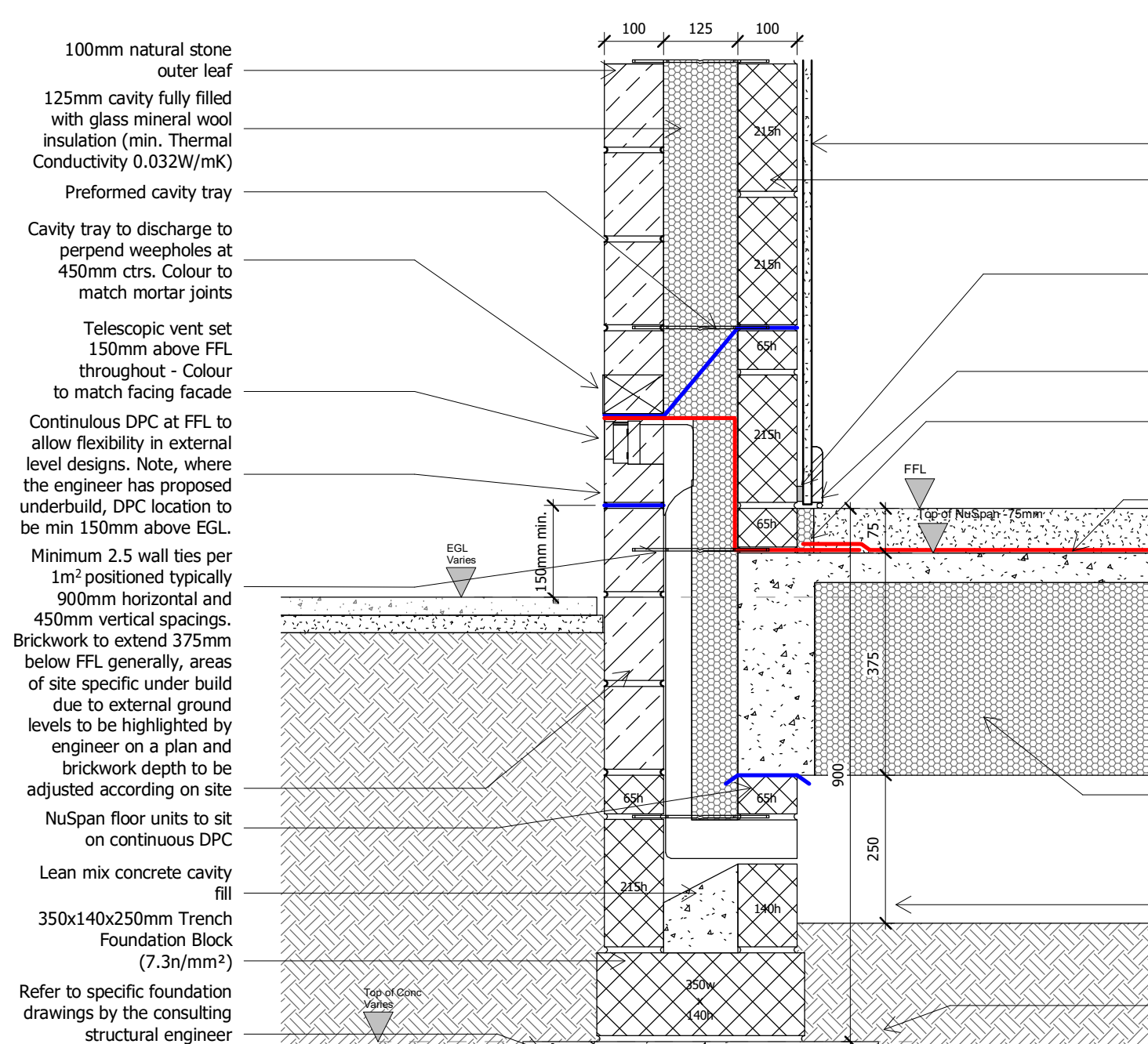
Shires House, Shires Road
Kiliseley, Leeds LS20 8EU
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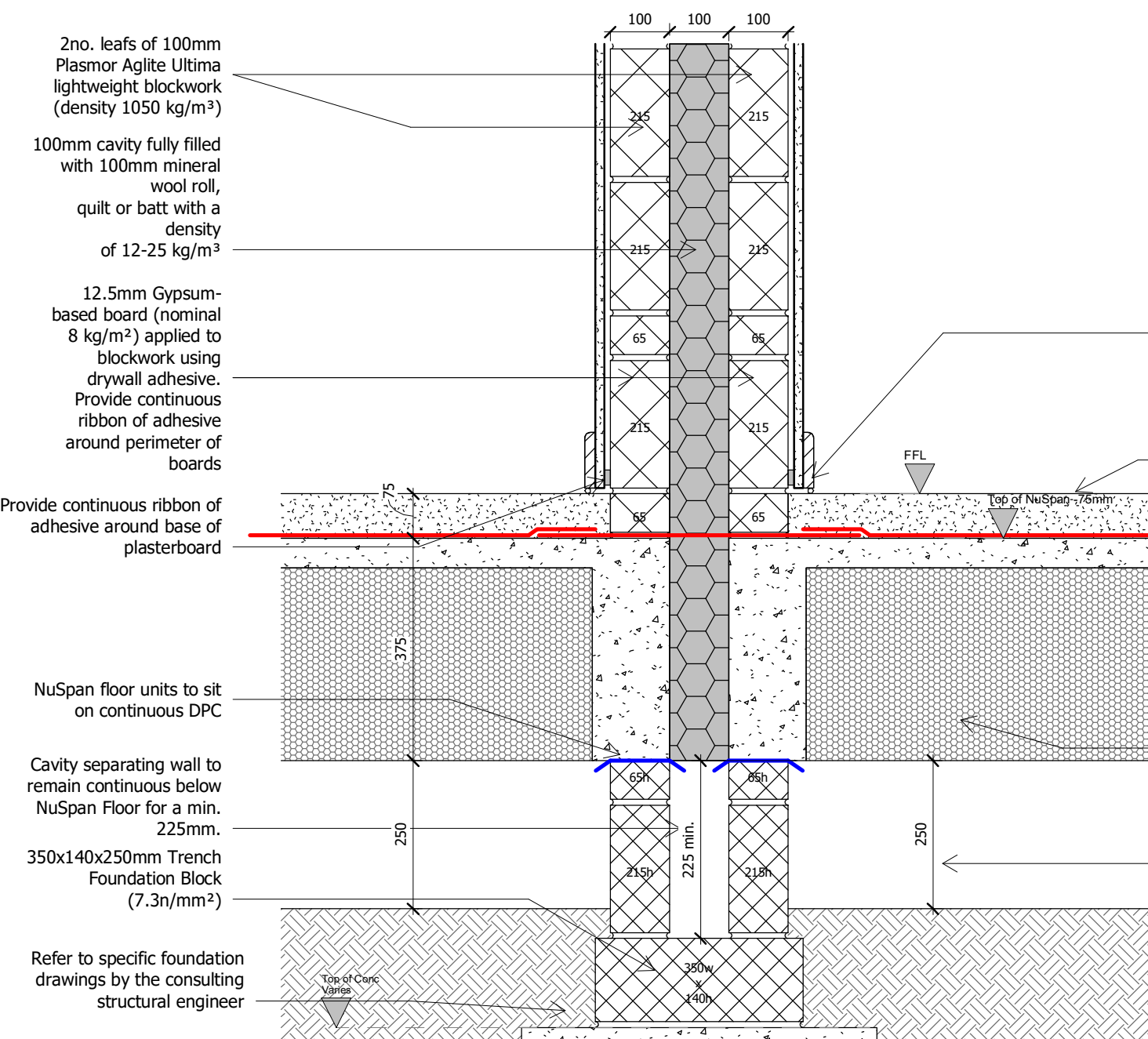


FUTURE BUILT

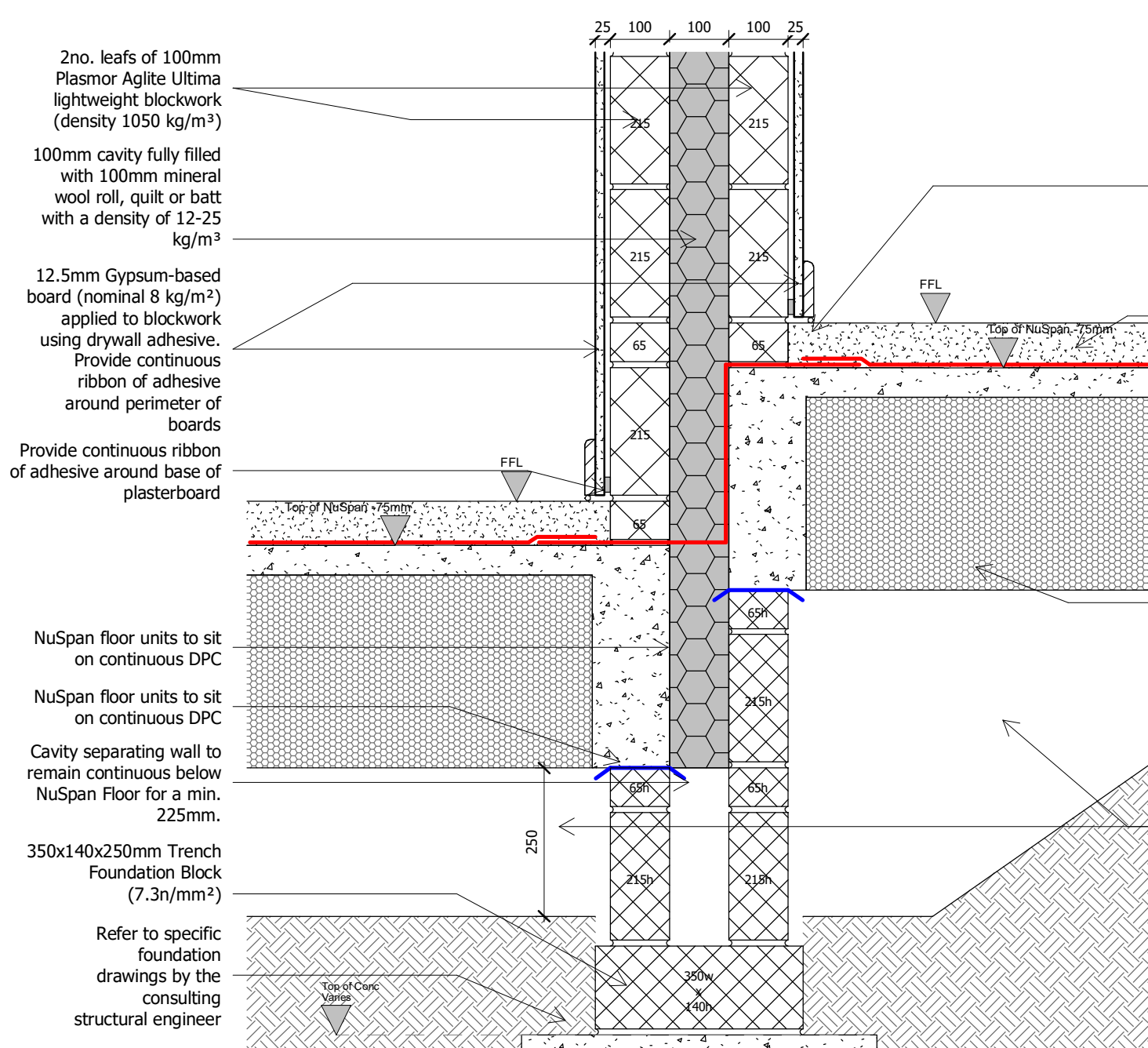
Note: Do not Scale from this drawing. All dimensions to be checked on site



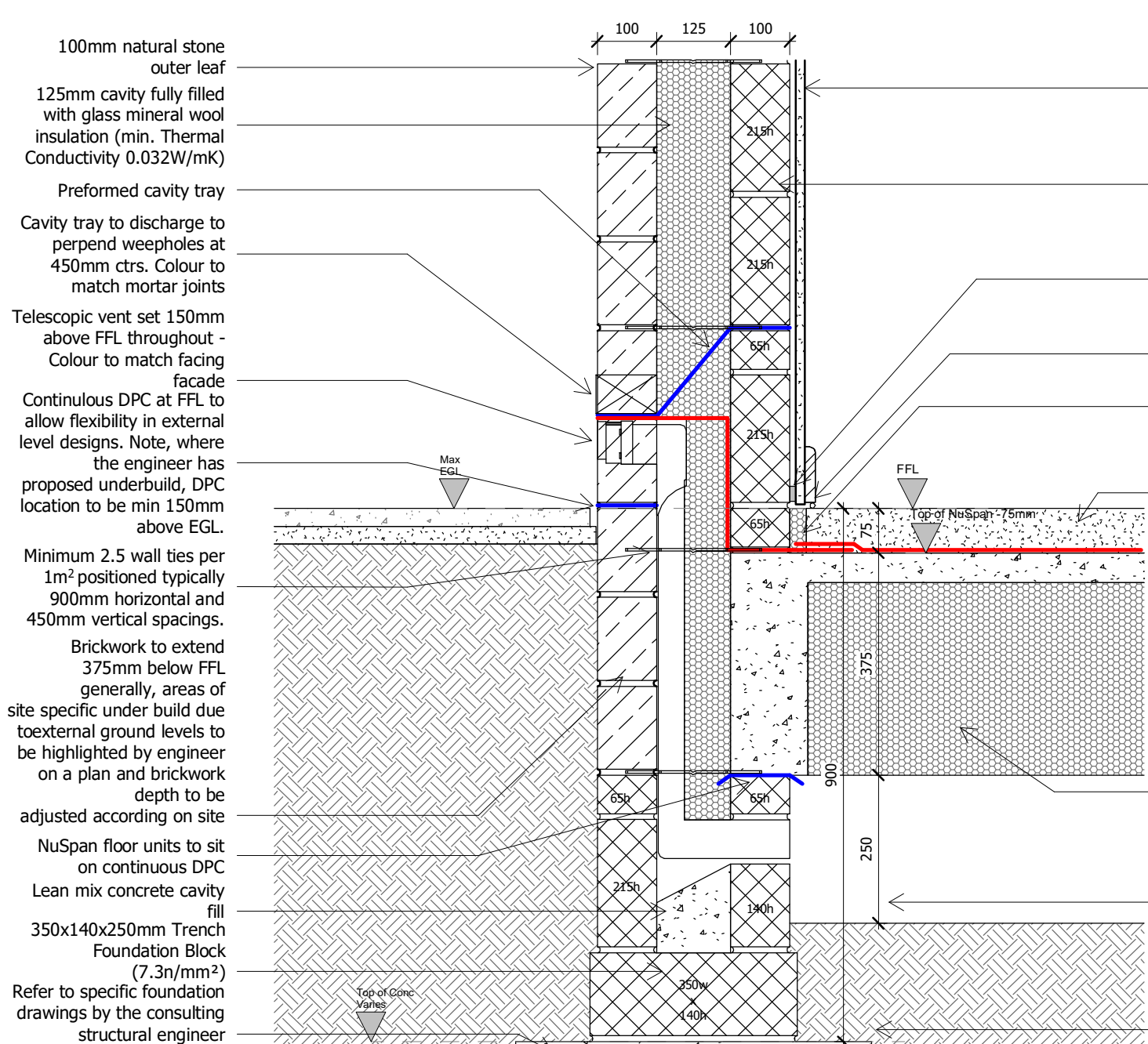
Stone External Wall / Ground Floor Junction
External Ground Level -150



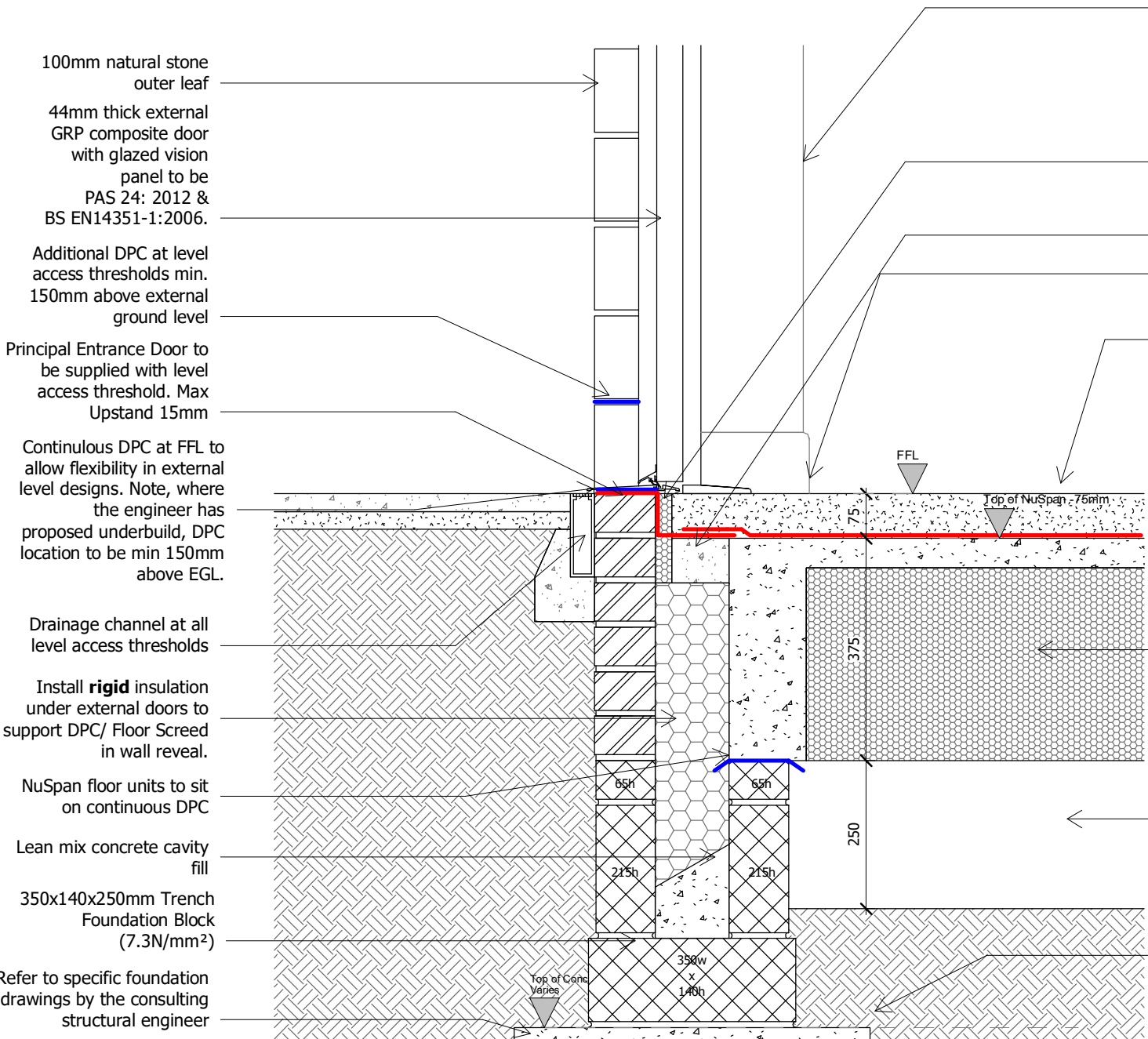
Separating Wall / Ground Floor Junction
Robust Detail E-WM-34



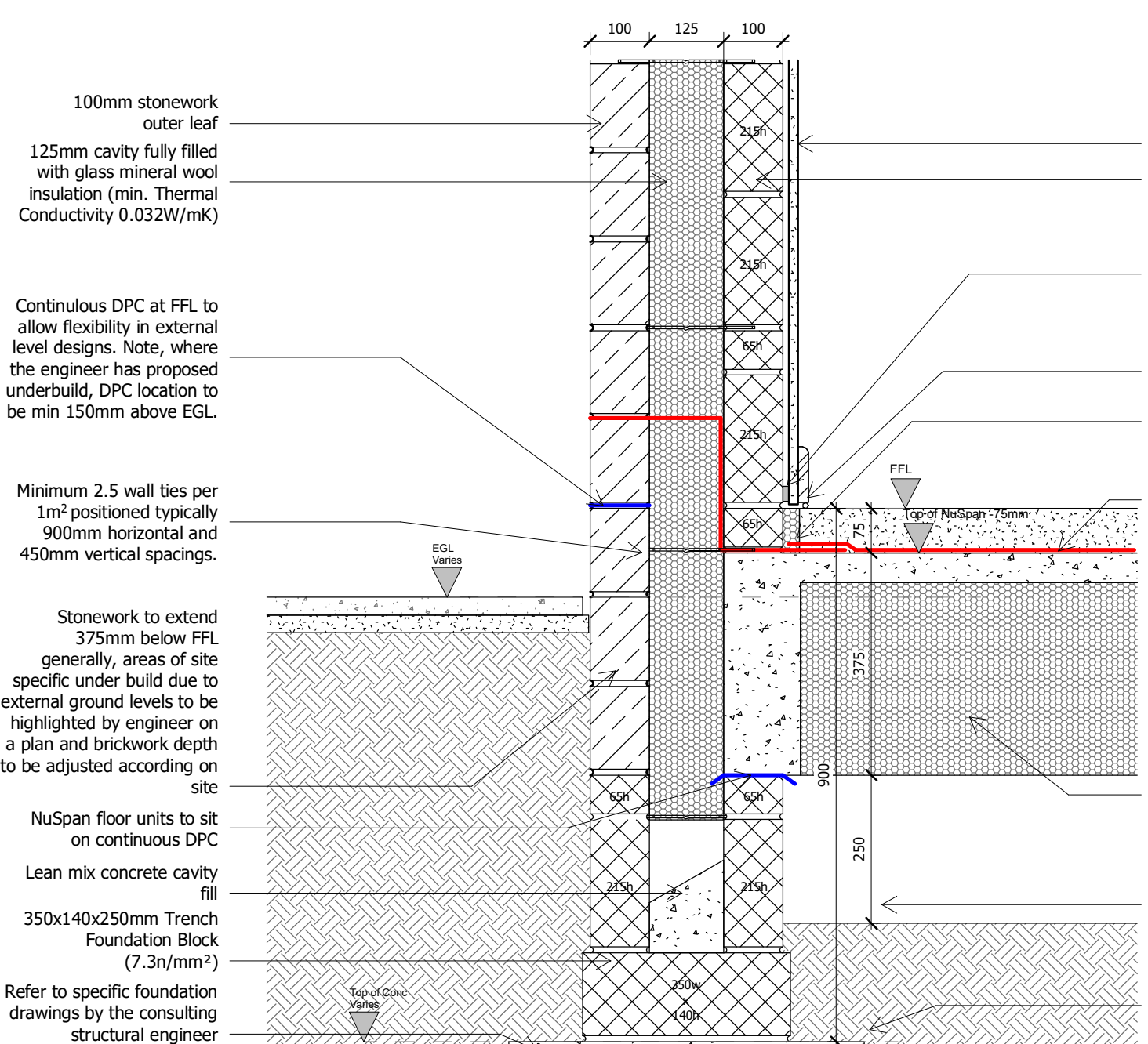
Typical Separating Wall / Stepped Ground Floor Junction
Robust Detail - E-WM-34



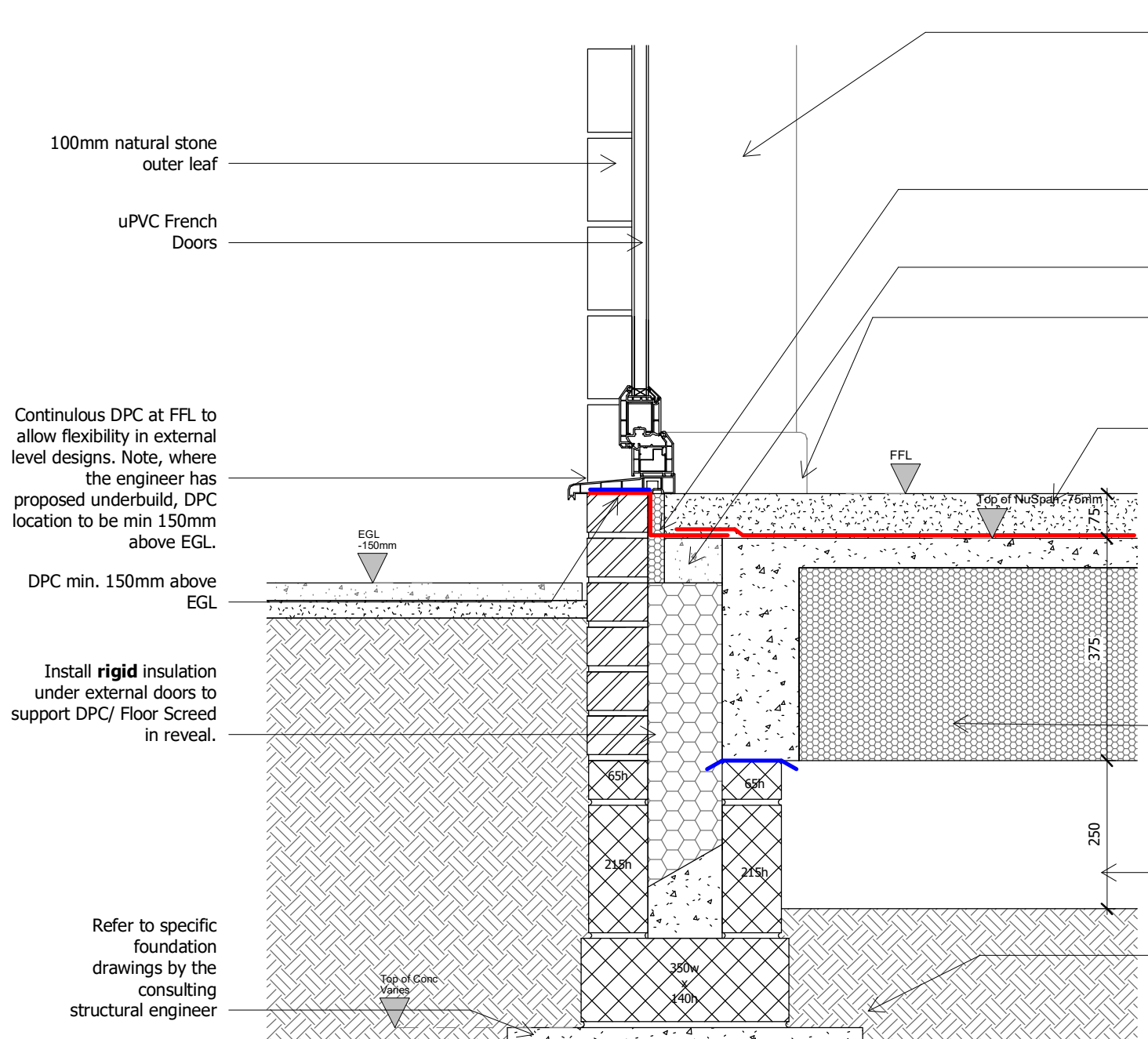
Stone External Wall / Ground Floor Junction
Max External Ground Level



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



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



Stone 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.

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:

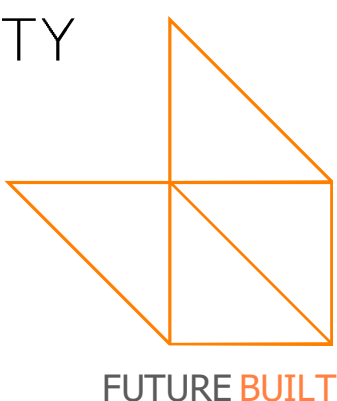
Hollingworth Road
Littleborough

Client:

Countryside Partnerships

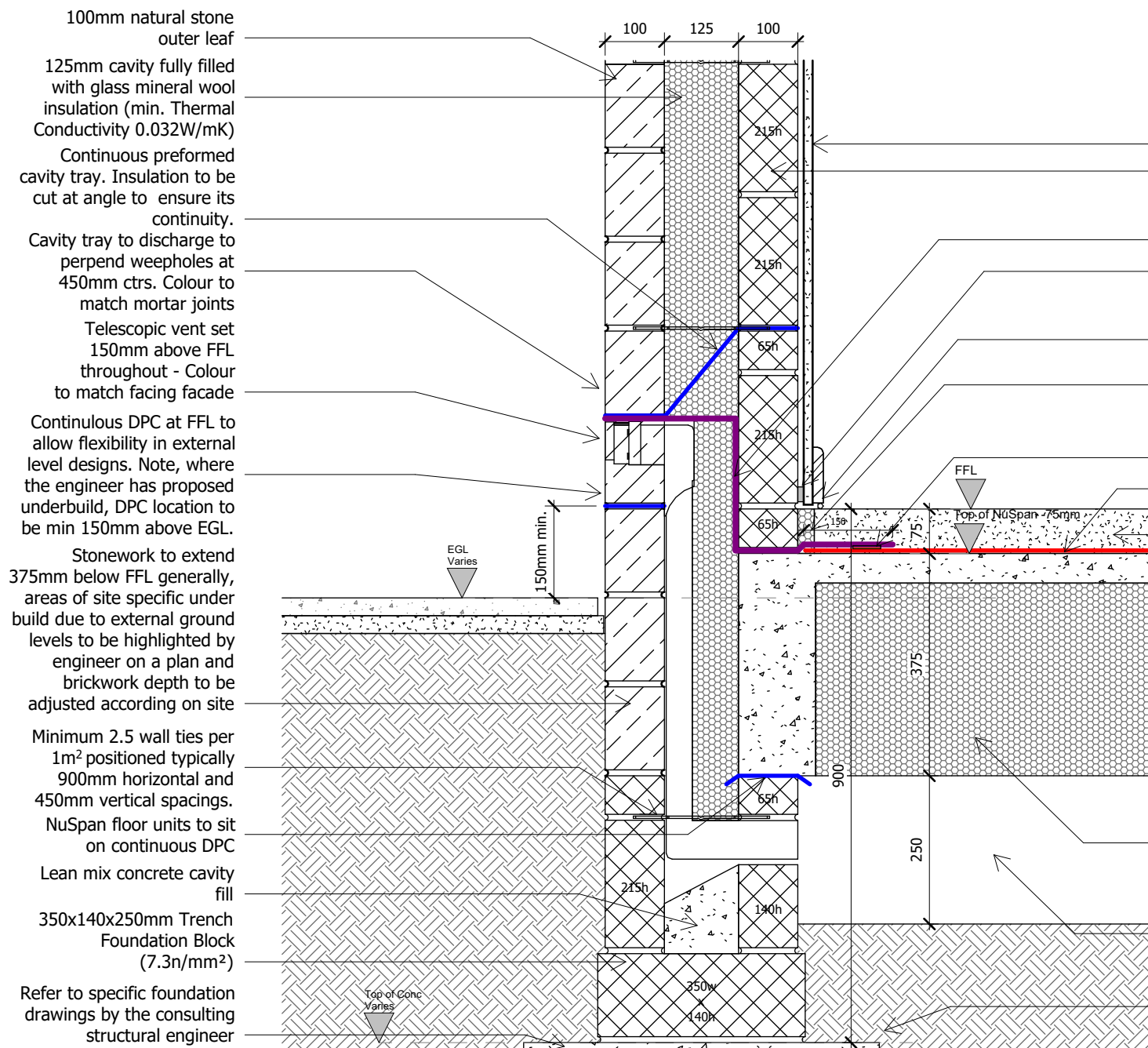
UPRN	Originator	Zone	Level	Type	Role	Series/Number	Revision:
HOLL-WBA-XX-XX-DR-A-20_9101							P3
Date:	Drawn:	Checked:	Scale:	Int Job No:			
May 23	WMB	RJ	As indicated	4046-001			

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FUTURE BUILT

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



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

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

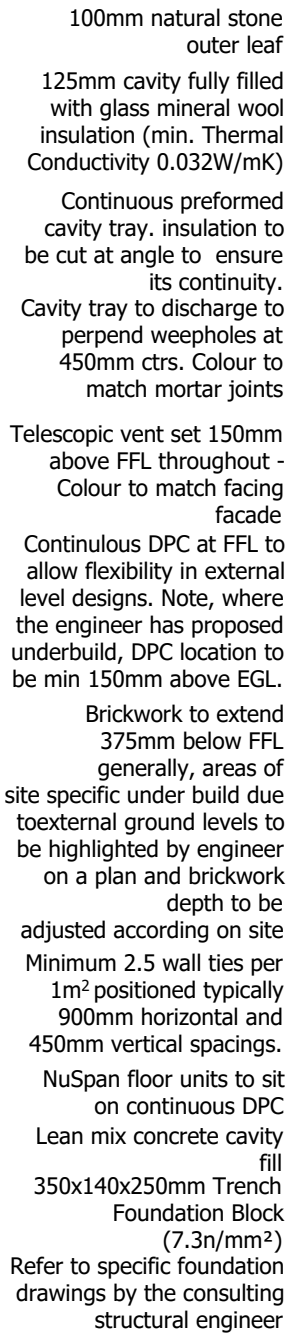
Screed on Proprietary CS2 rated Juta GP1 or similar membrane across all floor area, to be lapped (min 150mm to manufacturers requirements) and taped at perimeter with Juta GP DPC or similar. Any penetrations through DPM to be sealed in accordance with manufacturers details & recommendations.

NuSpan floor units to sit on continuous DPC

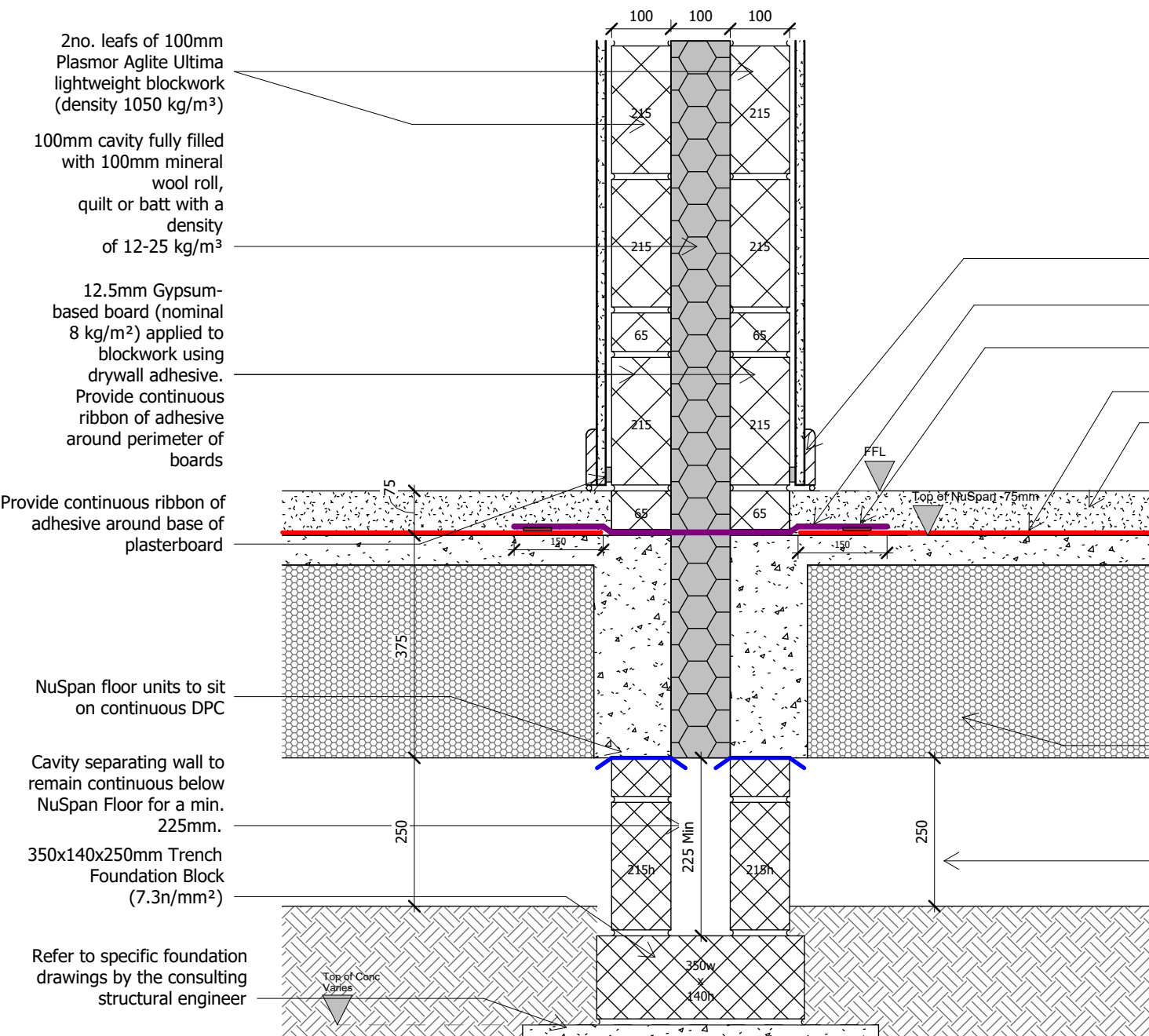
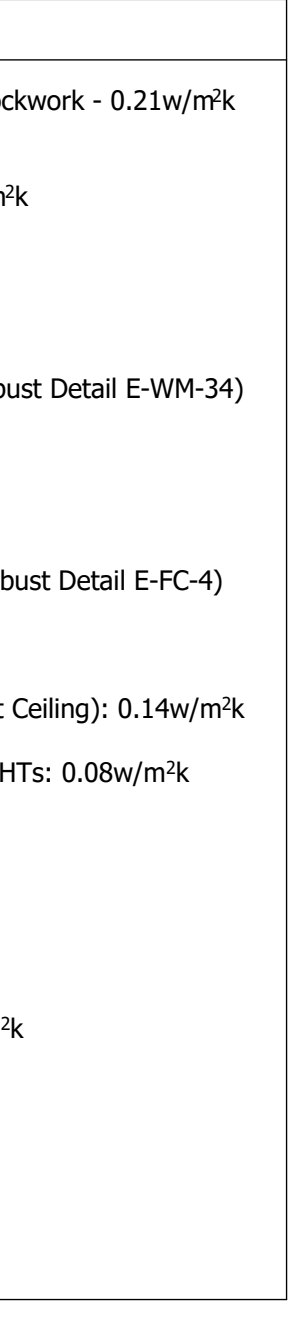
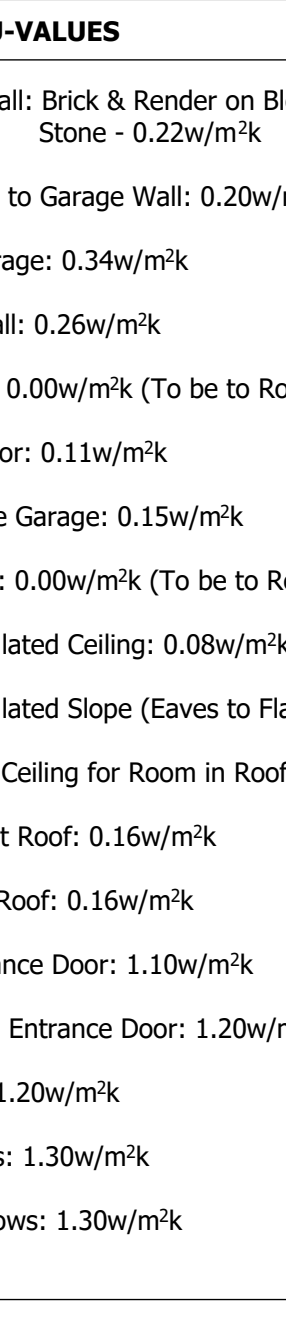
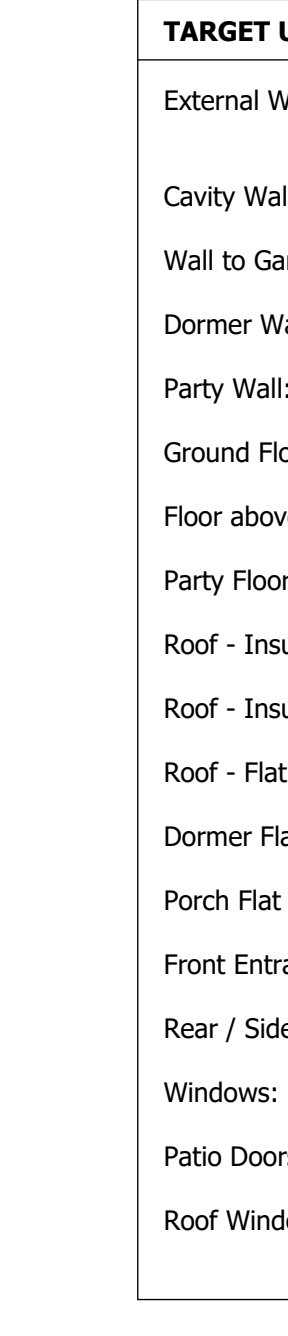
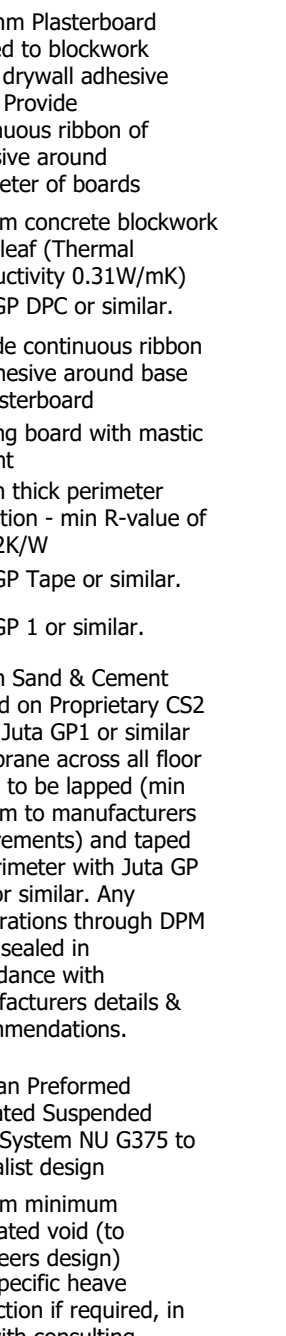
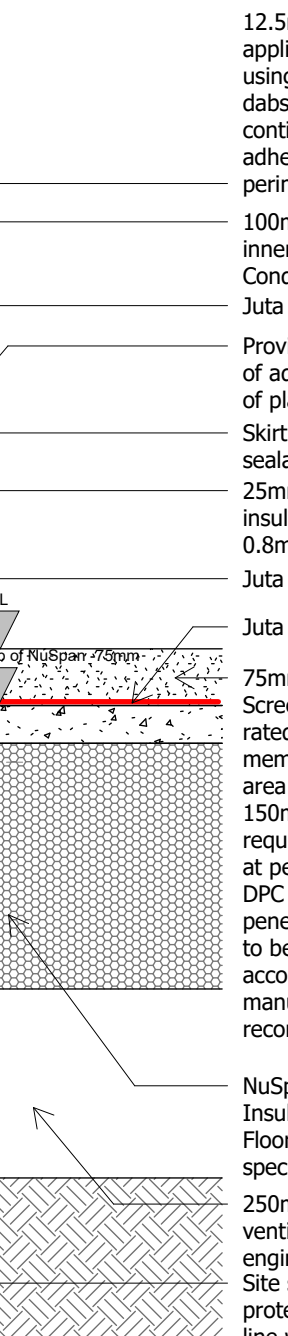
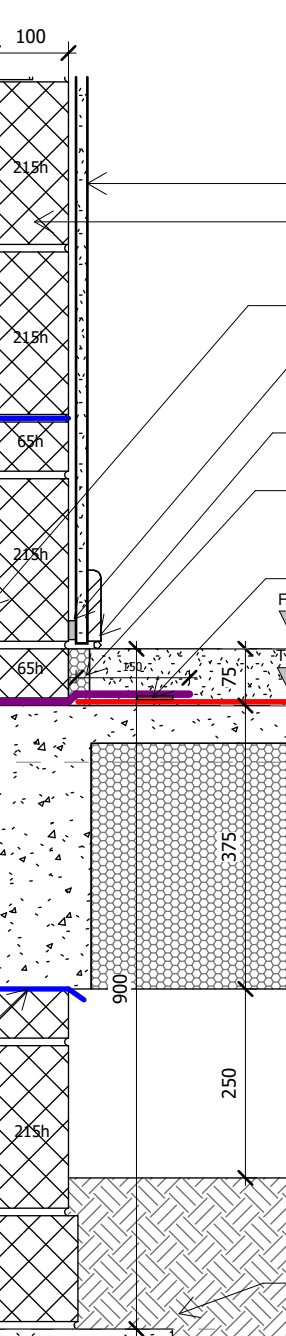
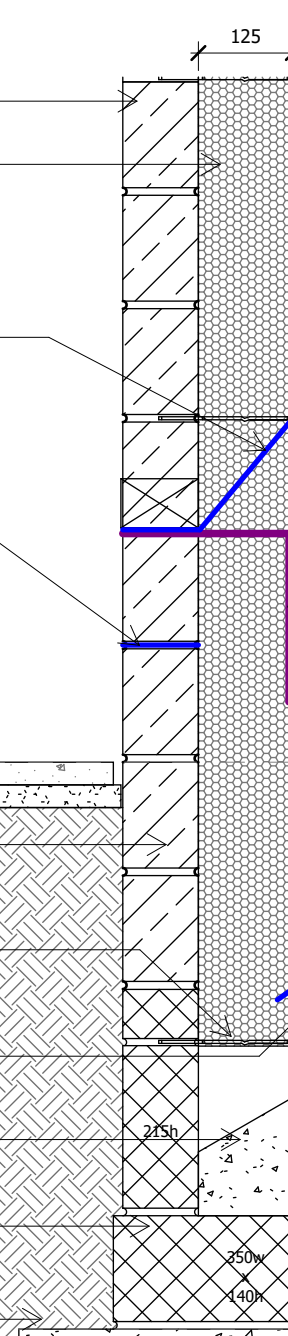
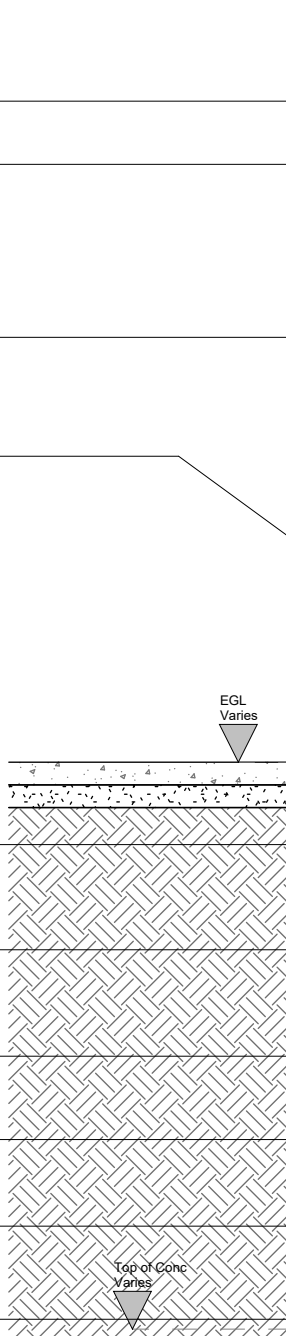
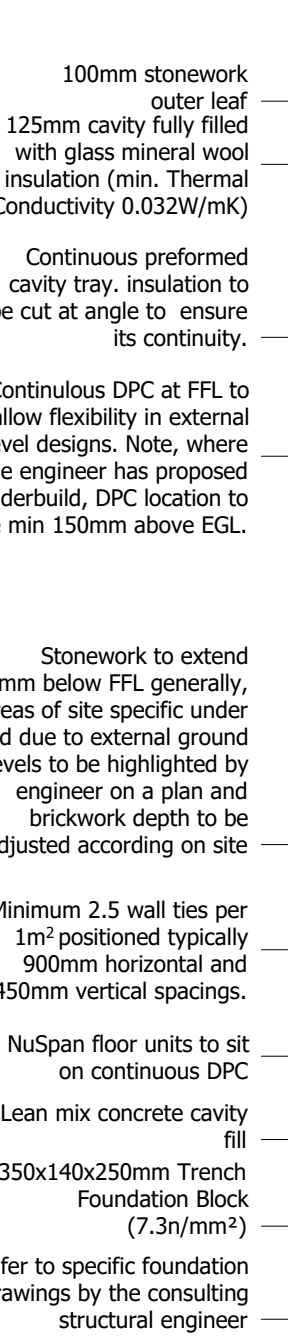
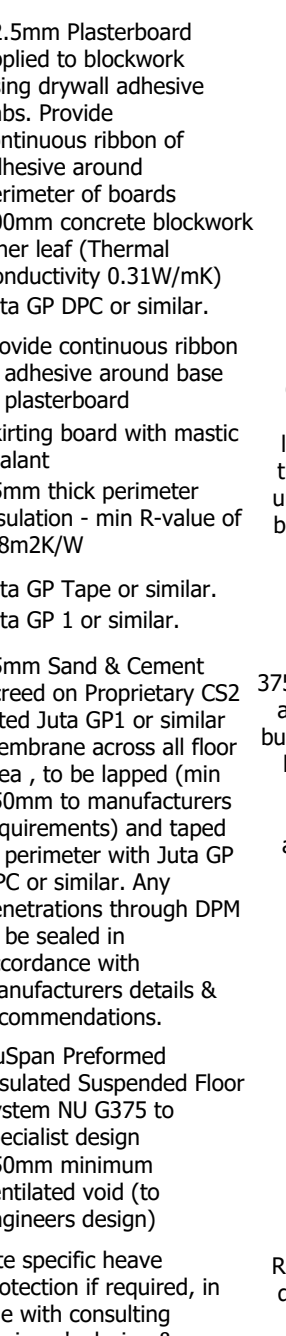
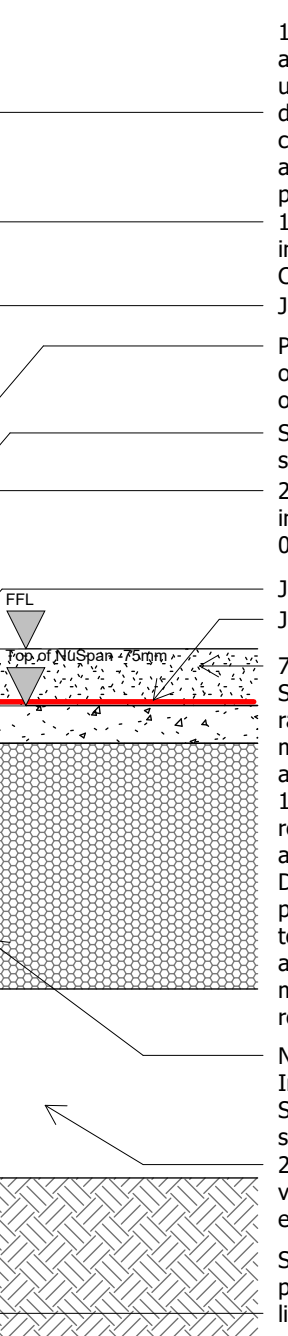
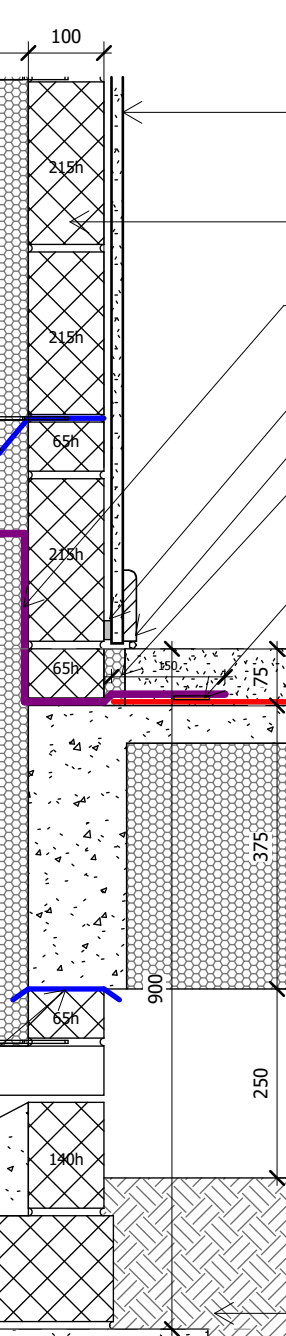
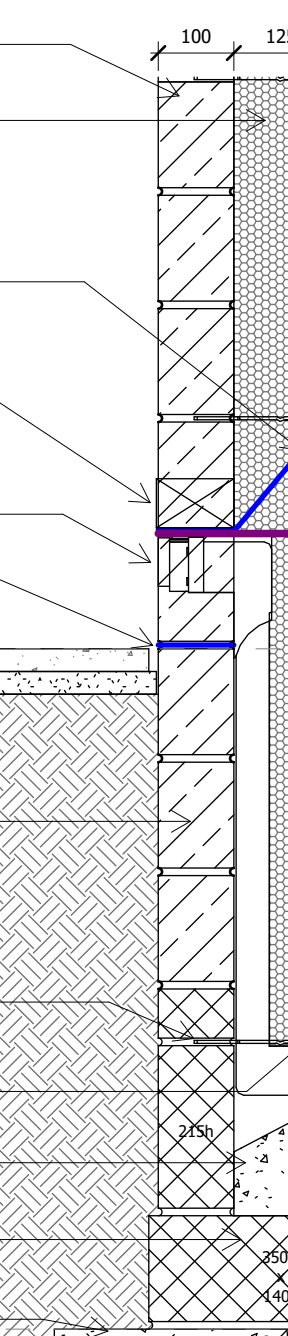
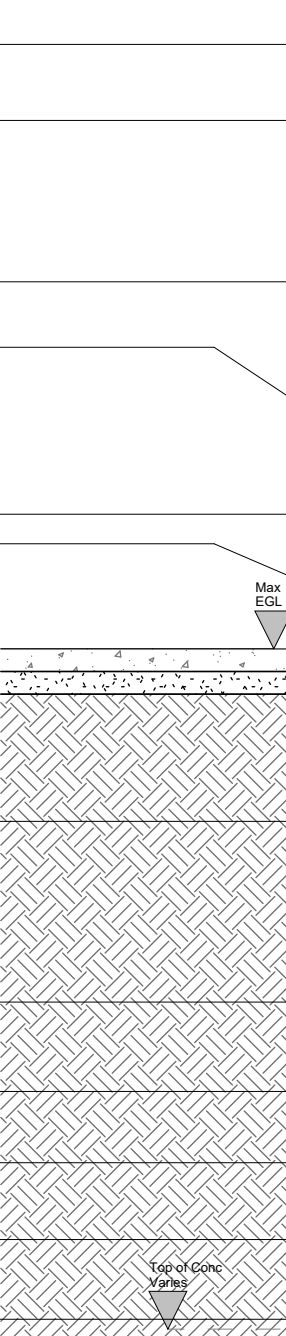
Lean mix concrete cavity fill

350x140x250mm Trench Foundation Block (7.3n/mm²)

Refer to specific foundation drawings by the consulting structural engineer



Stone External Wall / Ground Floor Junction
Max External Ground Level



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

2no. leafs of 100mm Plasmor Aglite Ultima lightweight blockwork (density 1050 kg/m³)

100mm cavity fully filled with 100mm mineral wool roll, quilt or batt with a density of 12-25 kg/m³

12.5mm Gypsum-based board (nominal 8 kg/m²) applied to blockwork using drywall adhesive. Provide continuous ribbon of adhesive around perimeter of boards

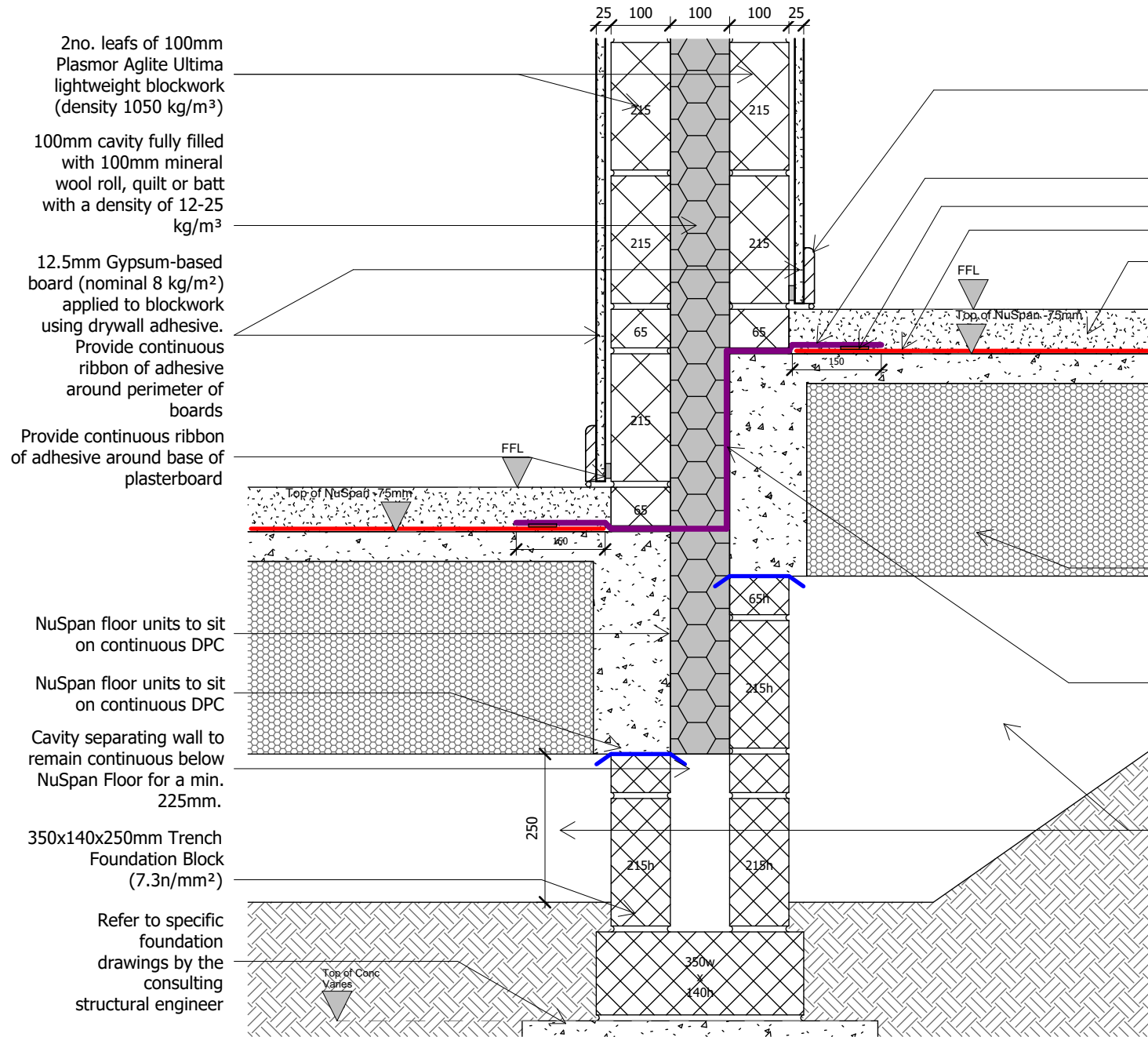
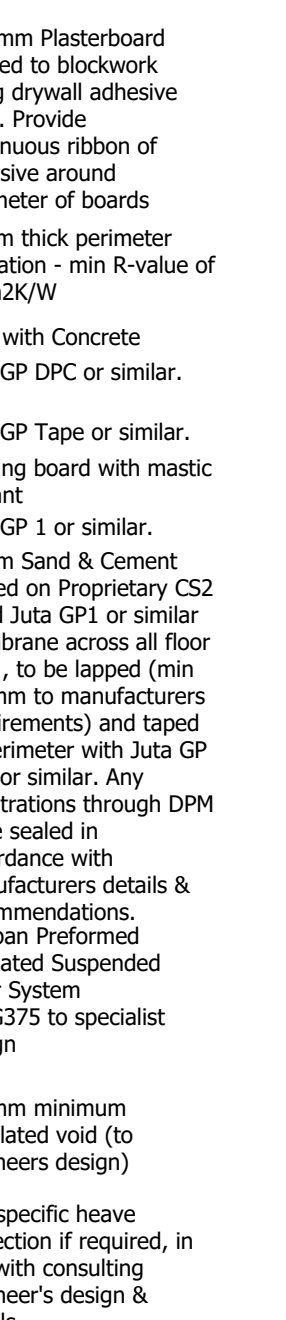
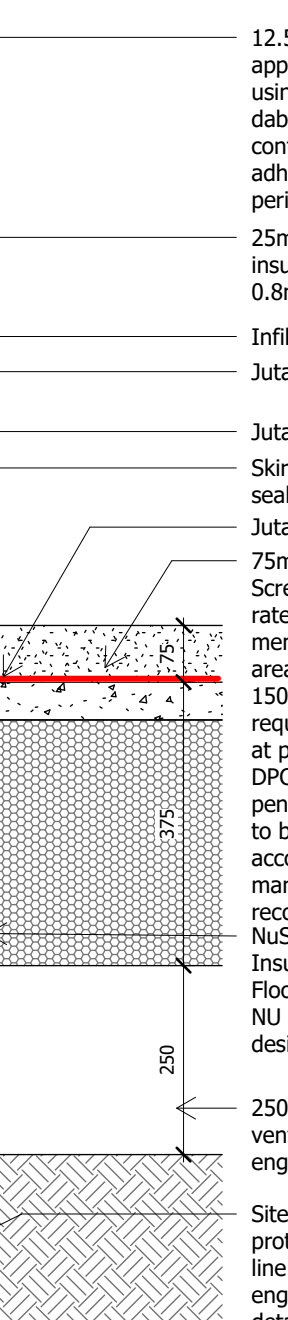
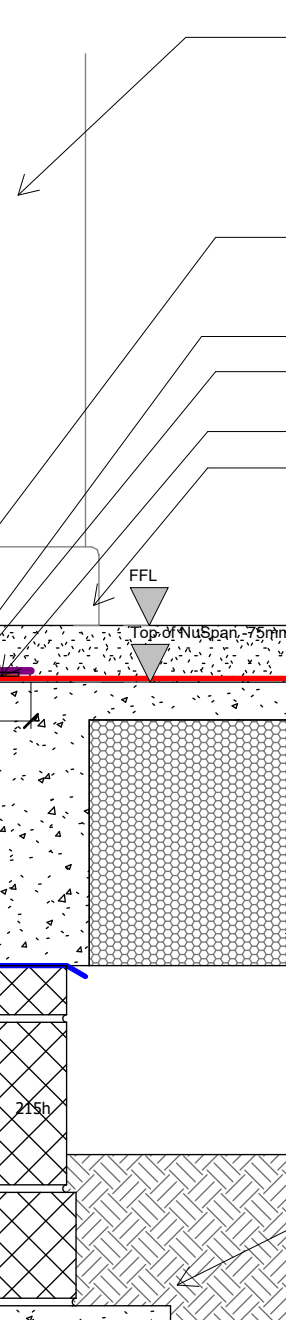
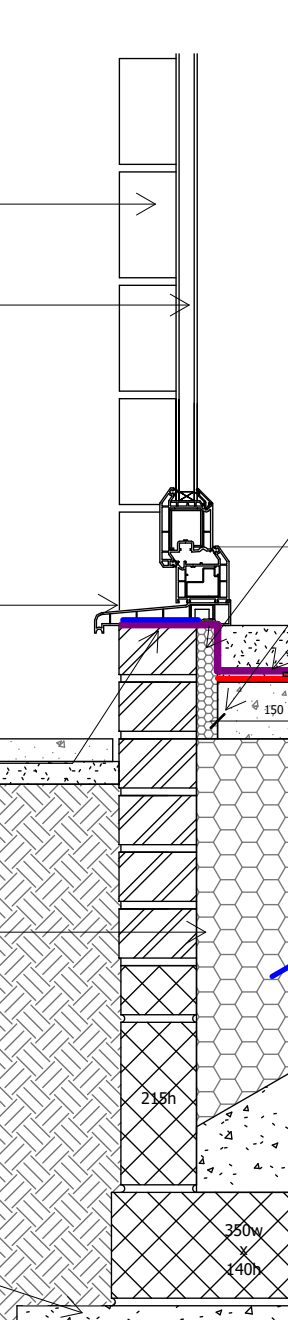
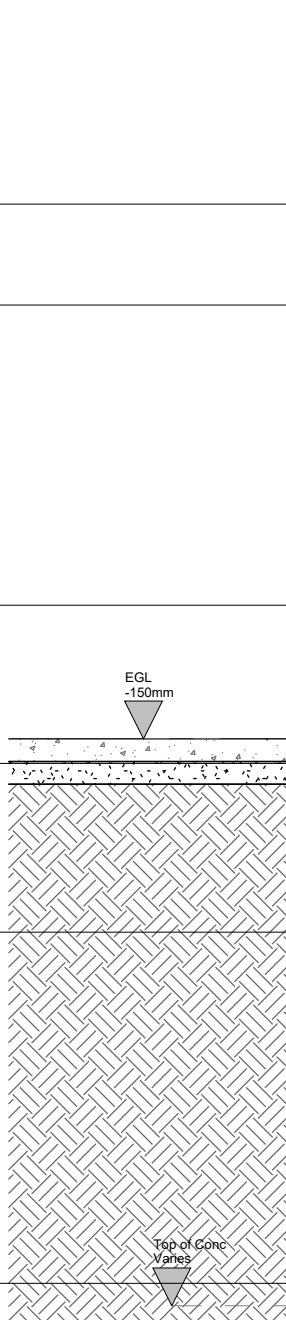
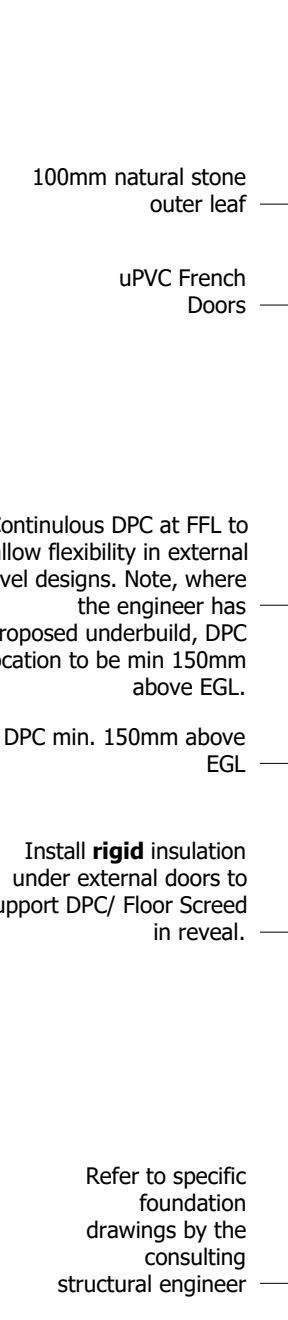
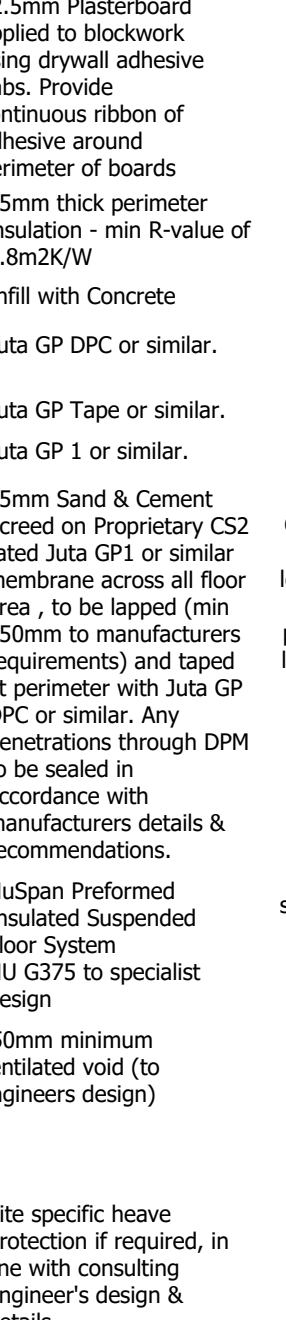
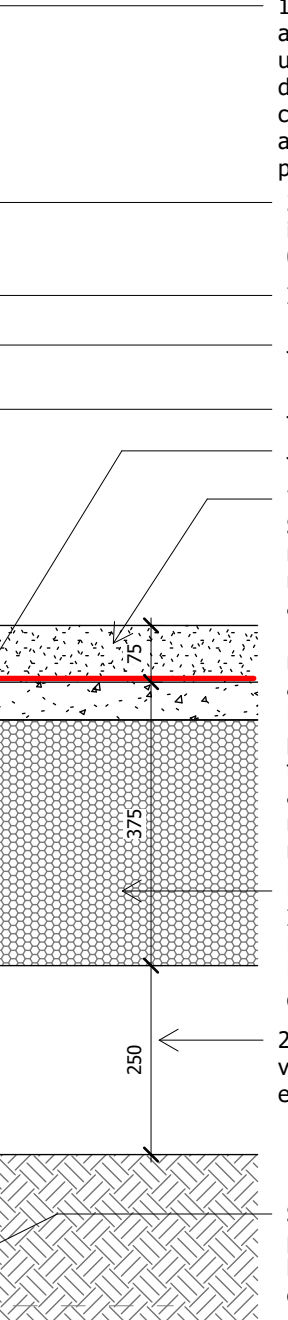
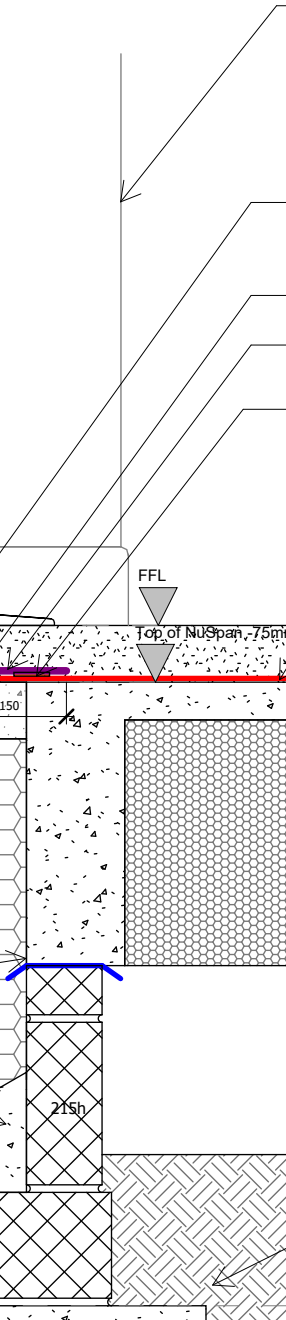
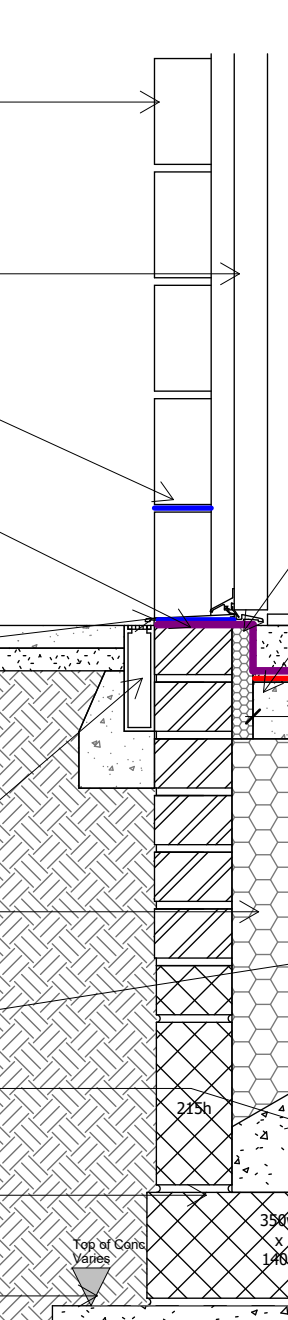
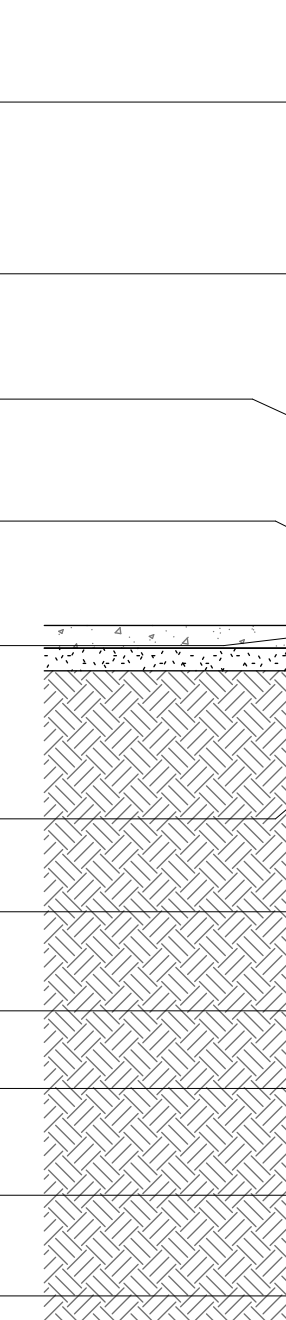
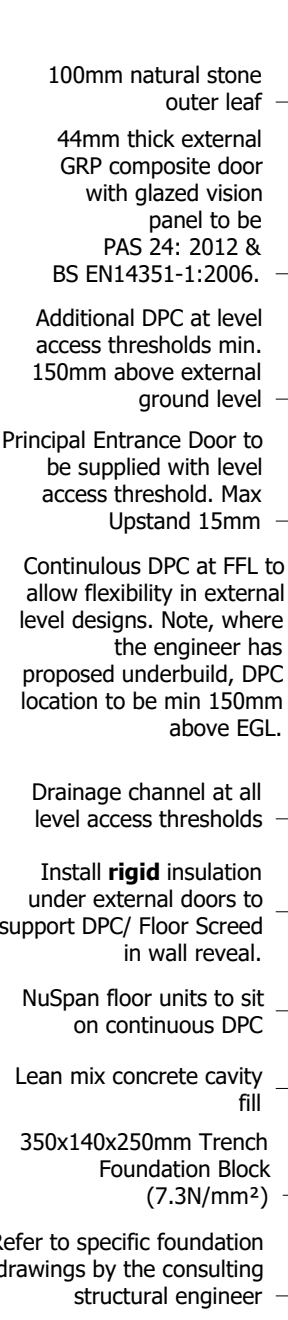
Provide continuous ribbon of adhesive around base of plasterboard

NuSpan floor units to sit on continuous DPC

Cavity separating wall to remain continuous below NuSpan Floor for a min. 225mm.

350x140x250mm Trench Foundation Block (7.3n/mm²)

Refer to specific foundation drawings by the consulting structural engineer



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

2no. leafs of 100mm Plasmor Aglite Ultima lightweight blockwork (density 1050 kg/m³)

100mm cavity fully filled with 100mm mineral wool roll, quilt or batt with a density of 12-25 kg/m³

12.5mm Gypsum-based board (nominal 8 kg/m²) applied to blockwork using drywall adhesive. Provide continuous ribbon of adhesive around perimeter of boards

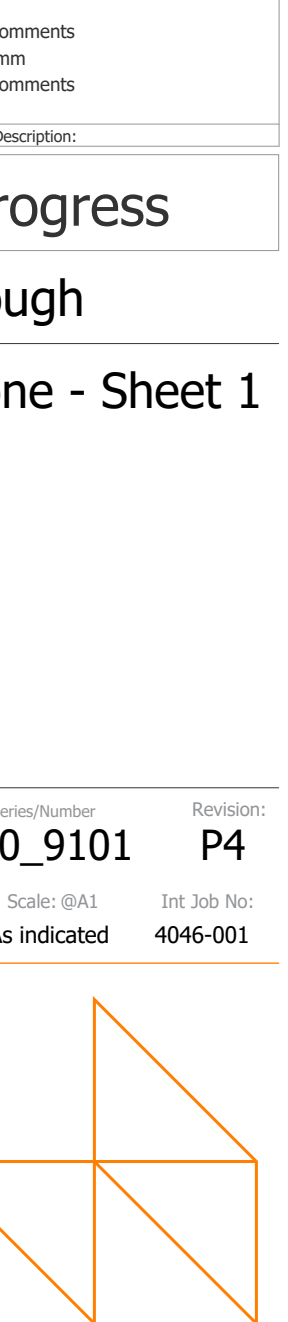
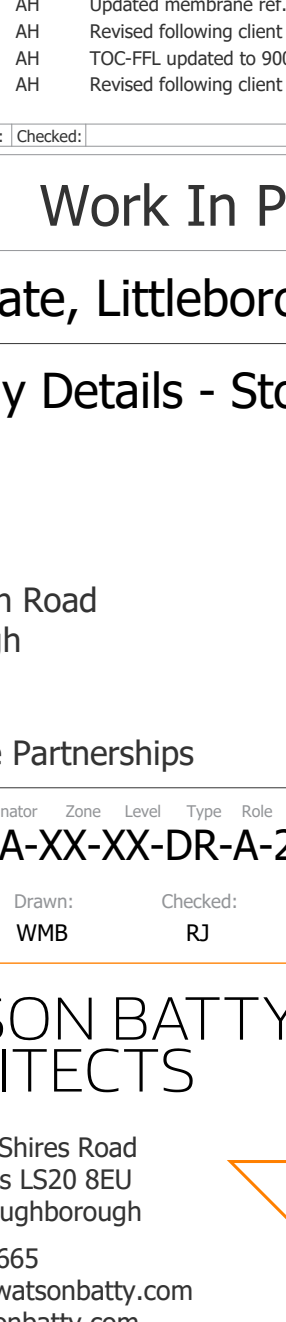
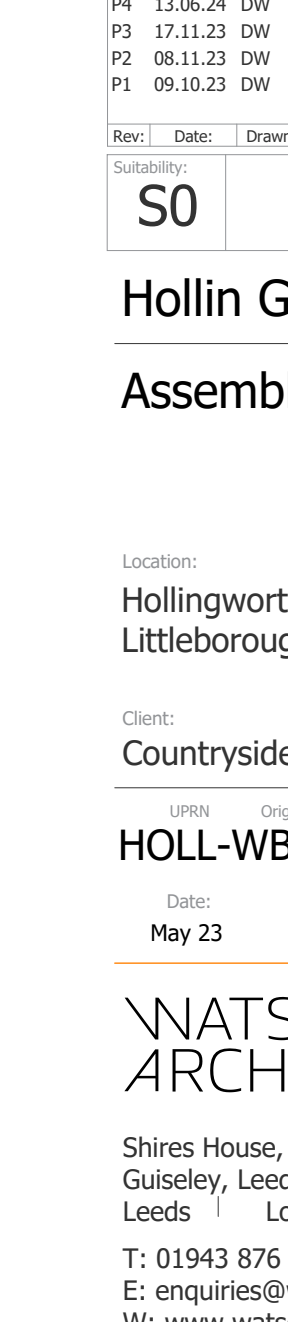
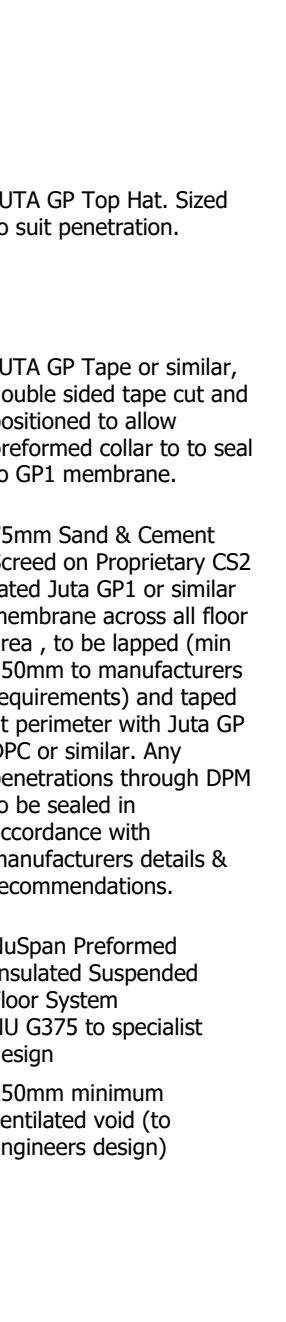
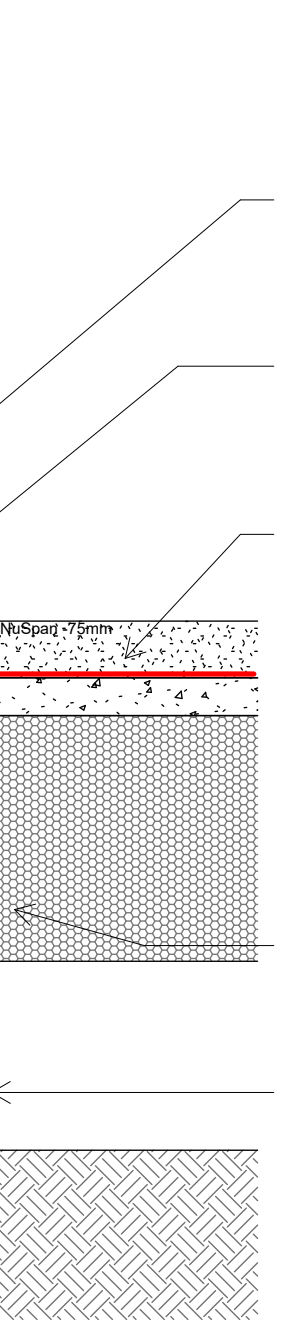
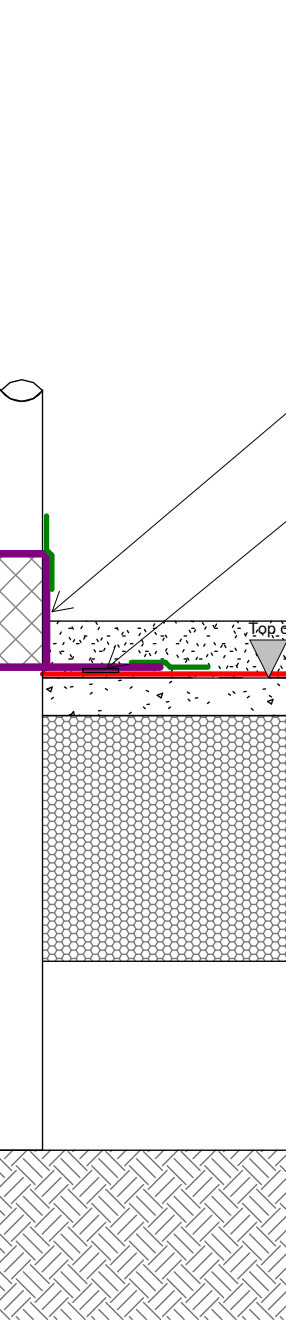
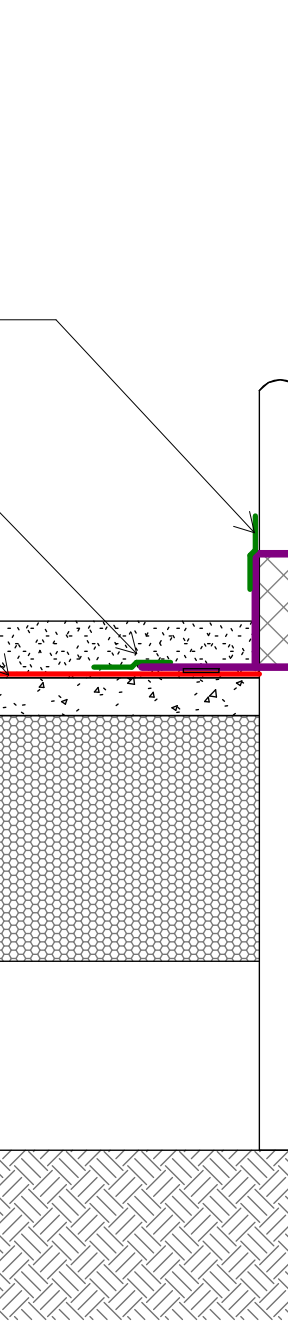
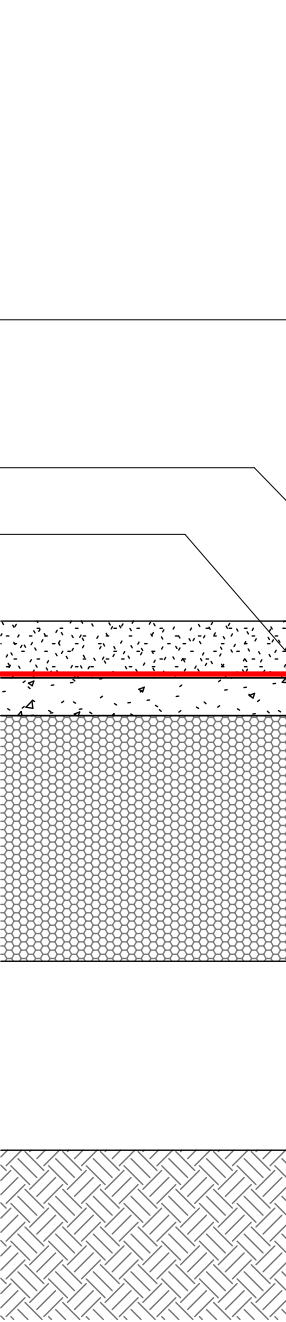
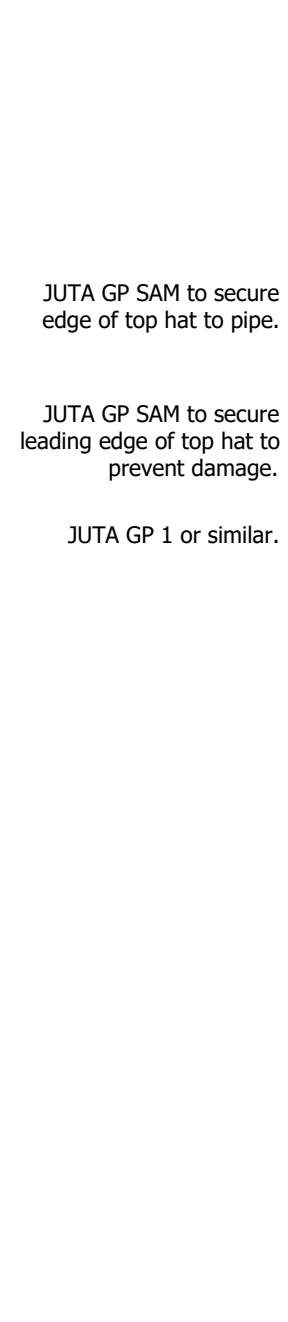
Provide continuous ribbon of adhesive around base of plasterboard

NuSpan floor units to sit on continuous DPC

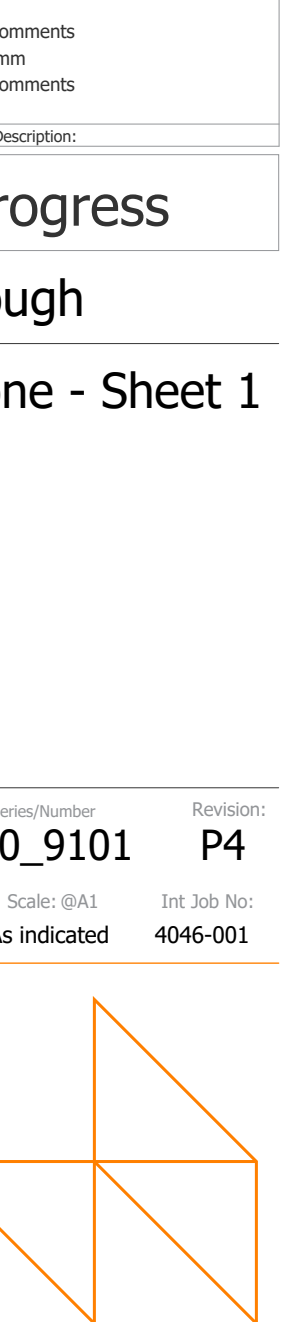
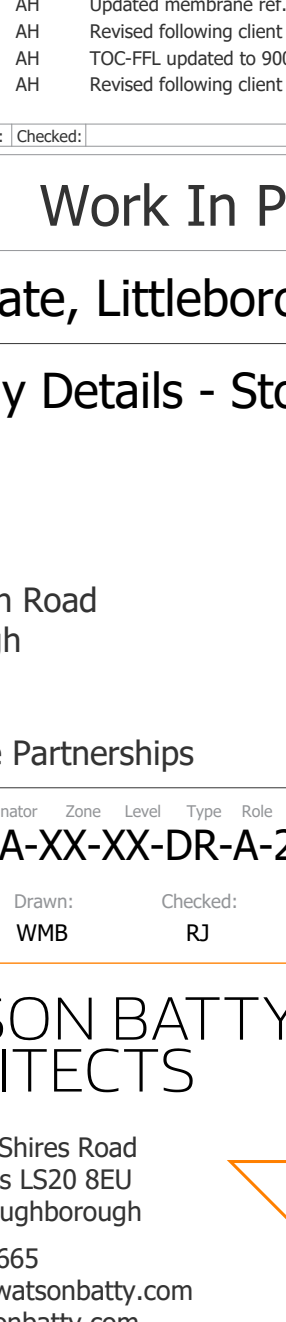
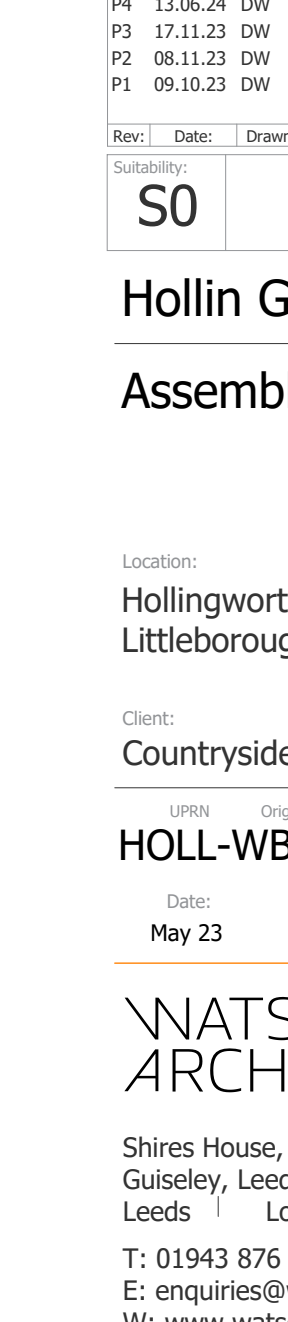
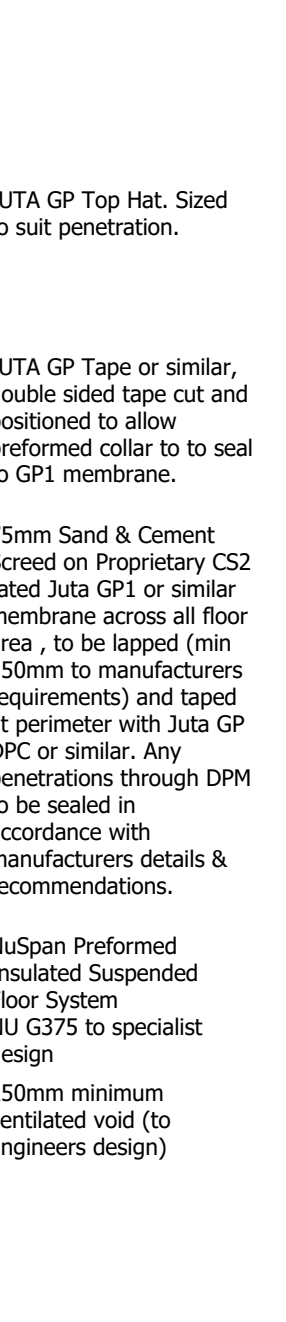
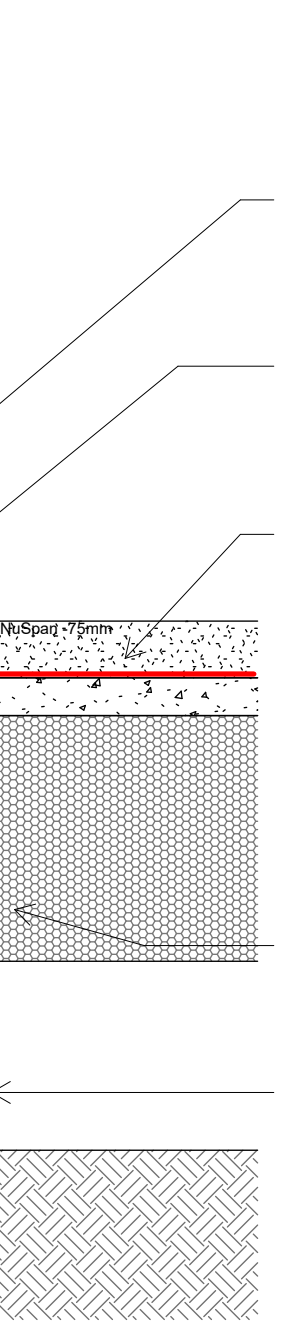
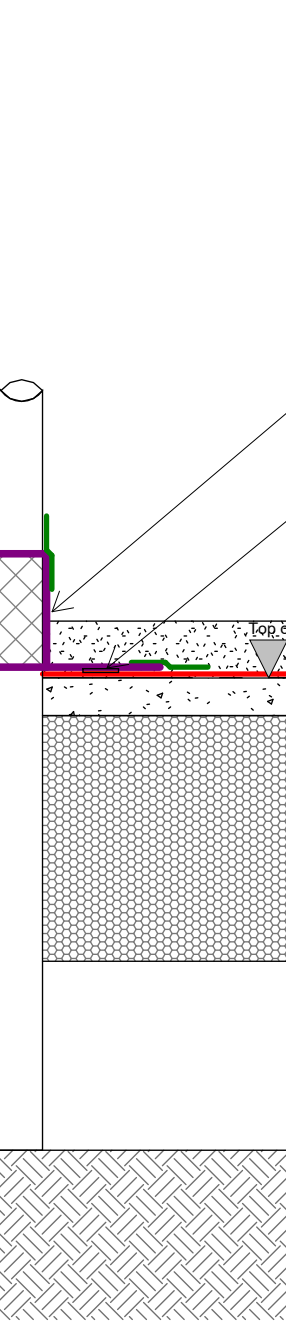
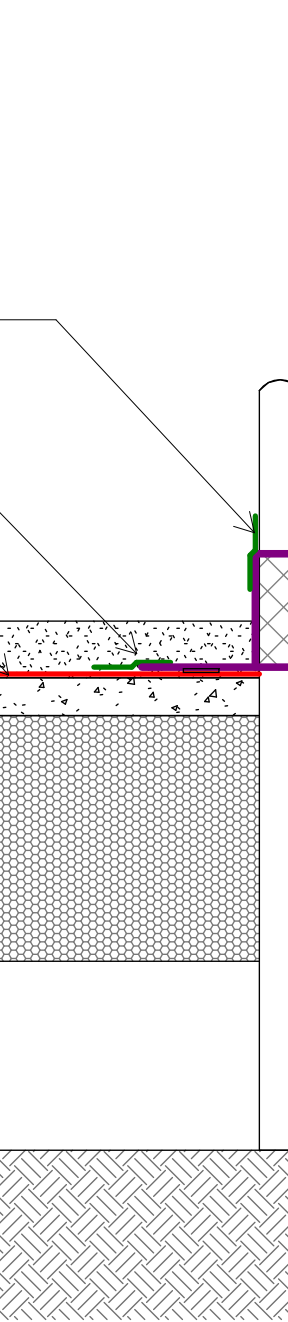
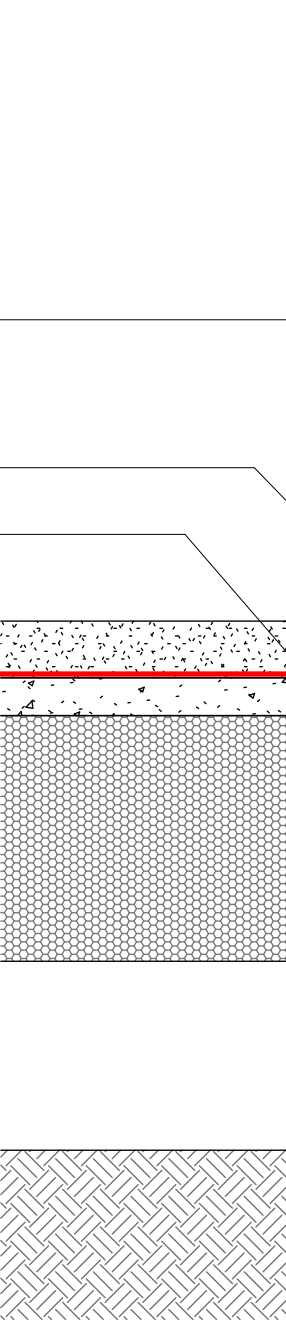
Cavity separating wall to remain continuous below NuSpan Floor for a min. 225mm.

350x140x250mm Trench Foundation Block (7.3n/mm²)

Refer to specific foundation drawings by the consulting structural engineer



Service Penetration Ground Floor



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 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			

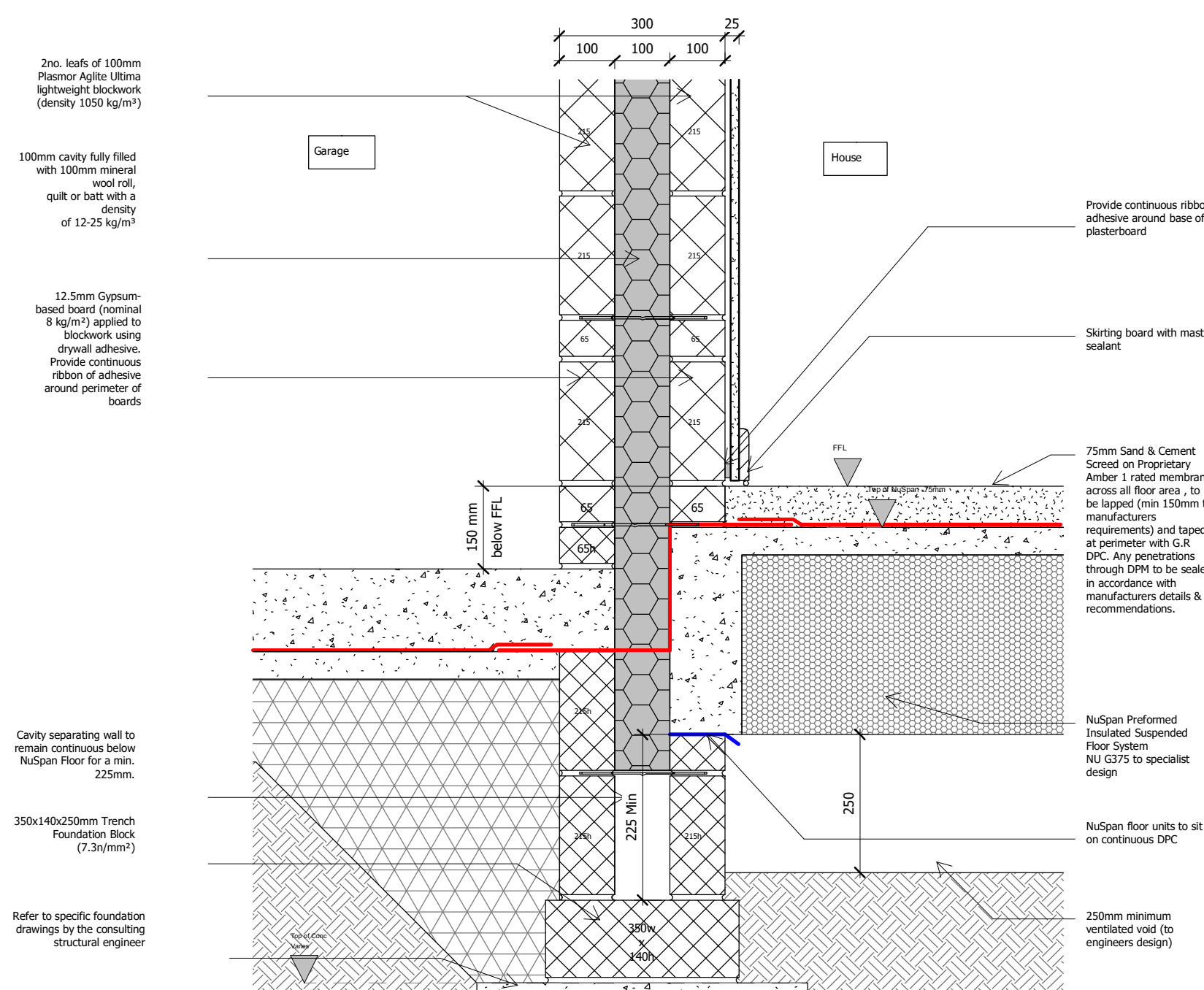
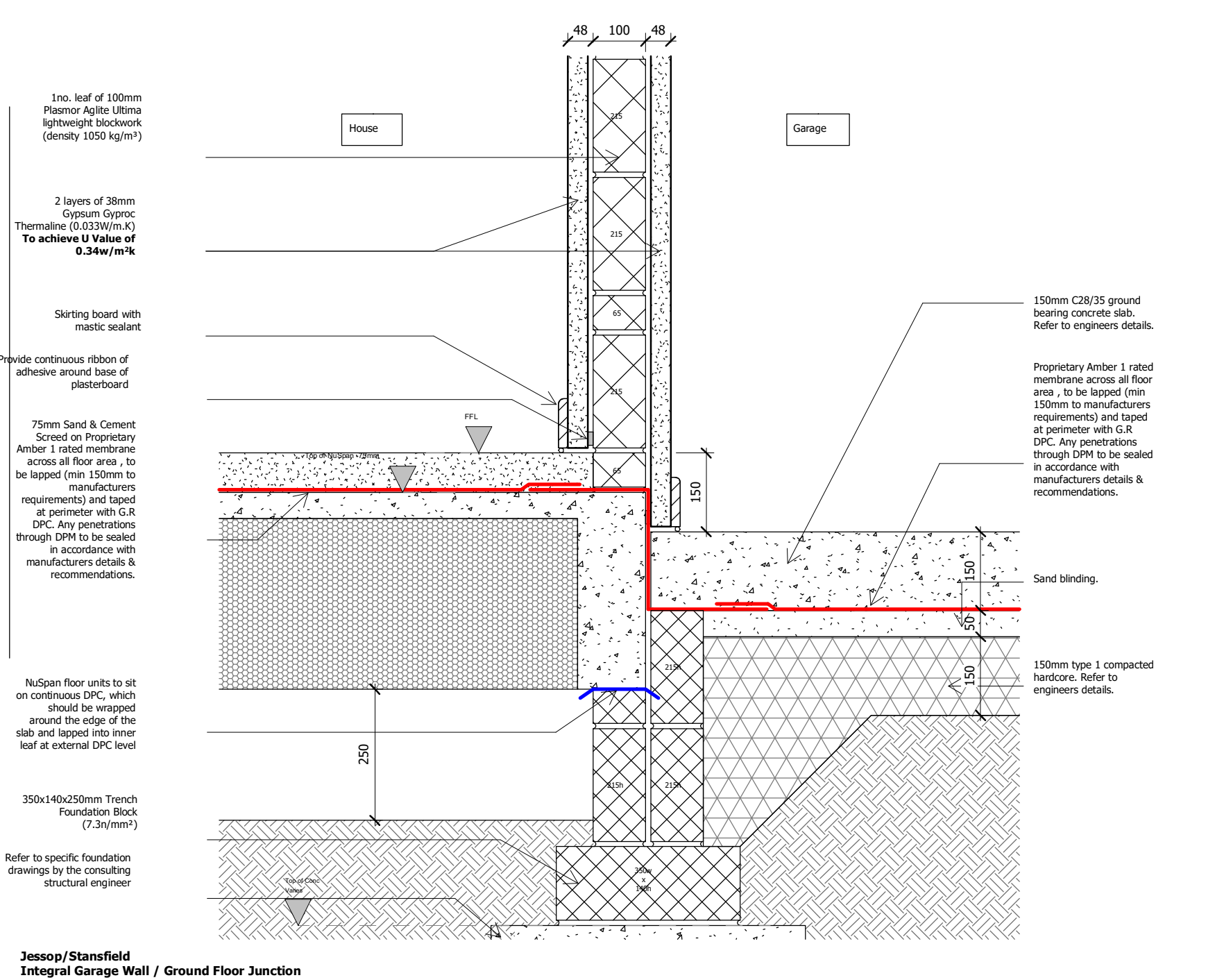
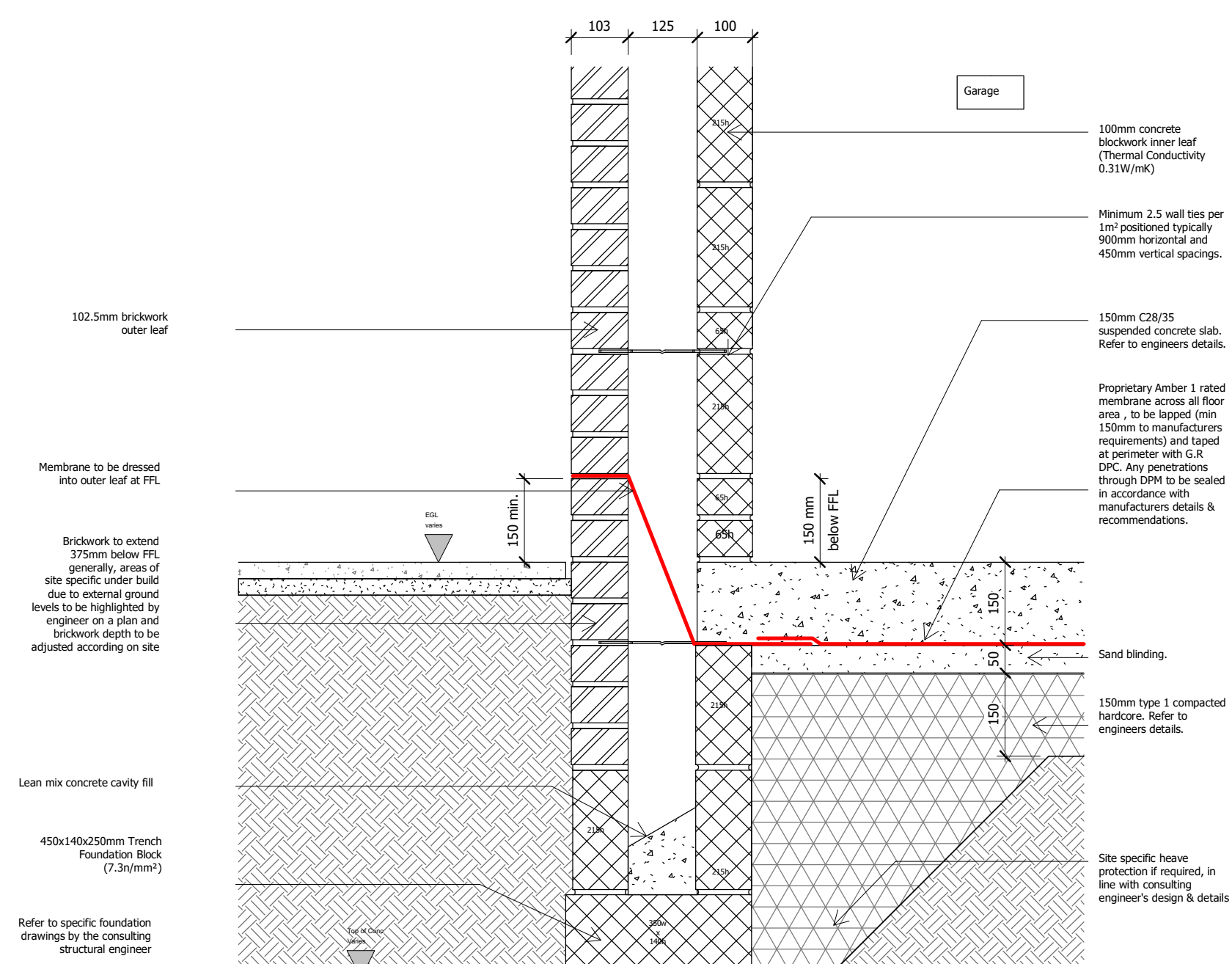
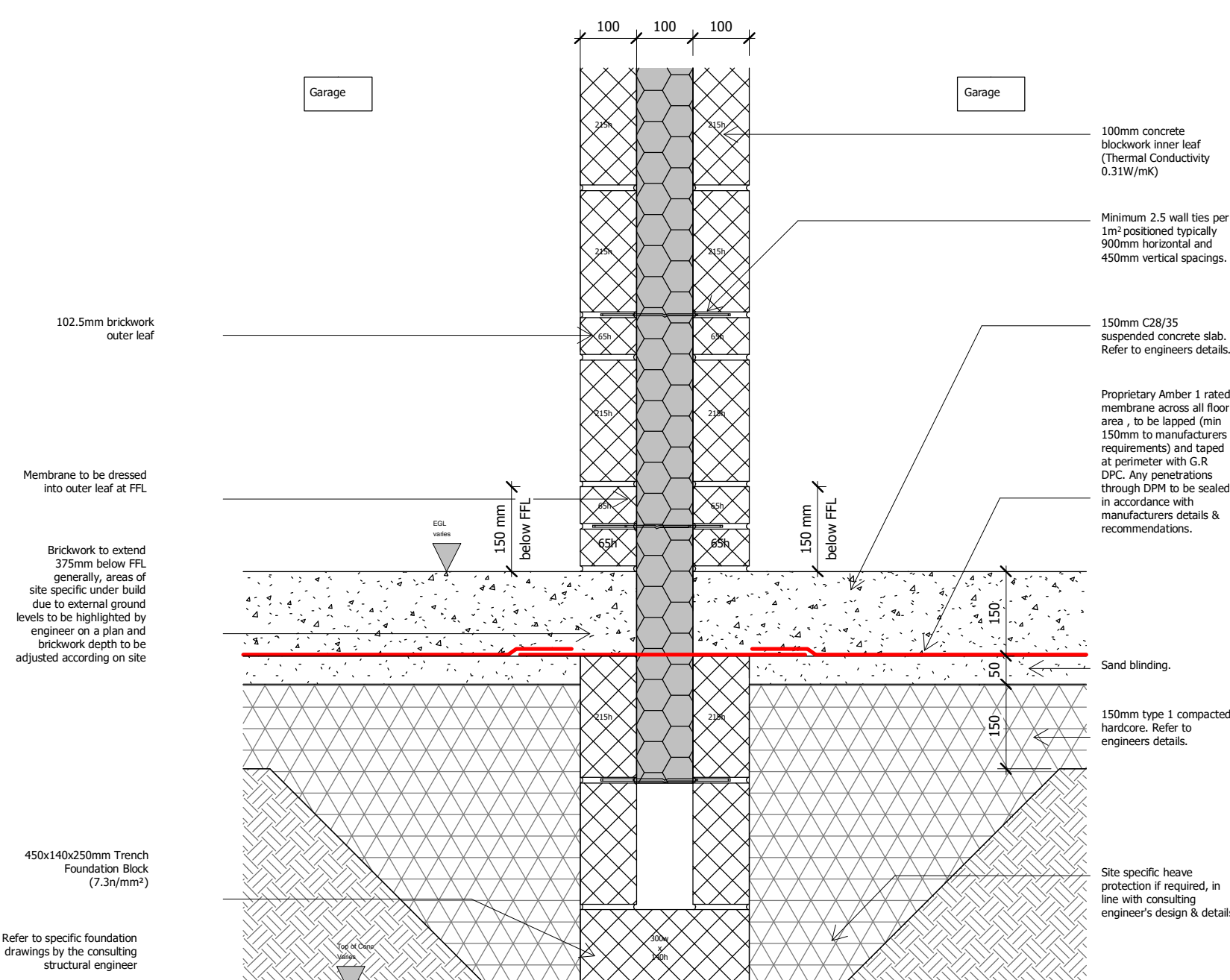
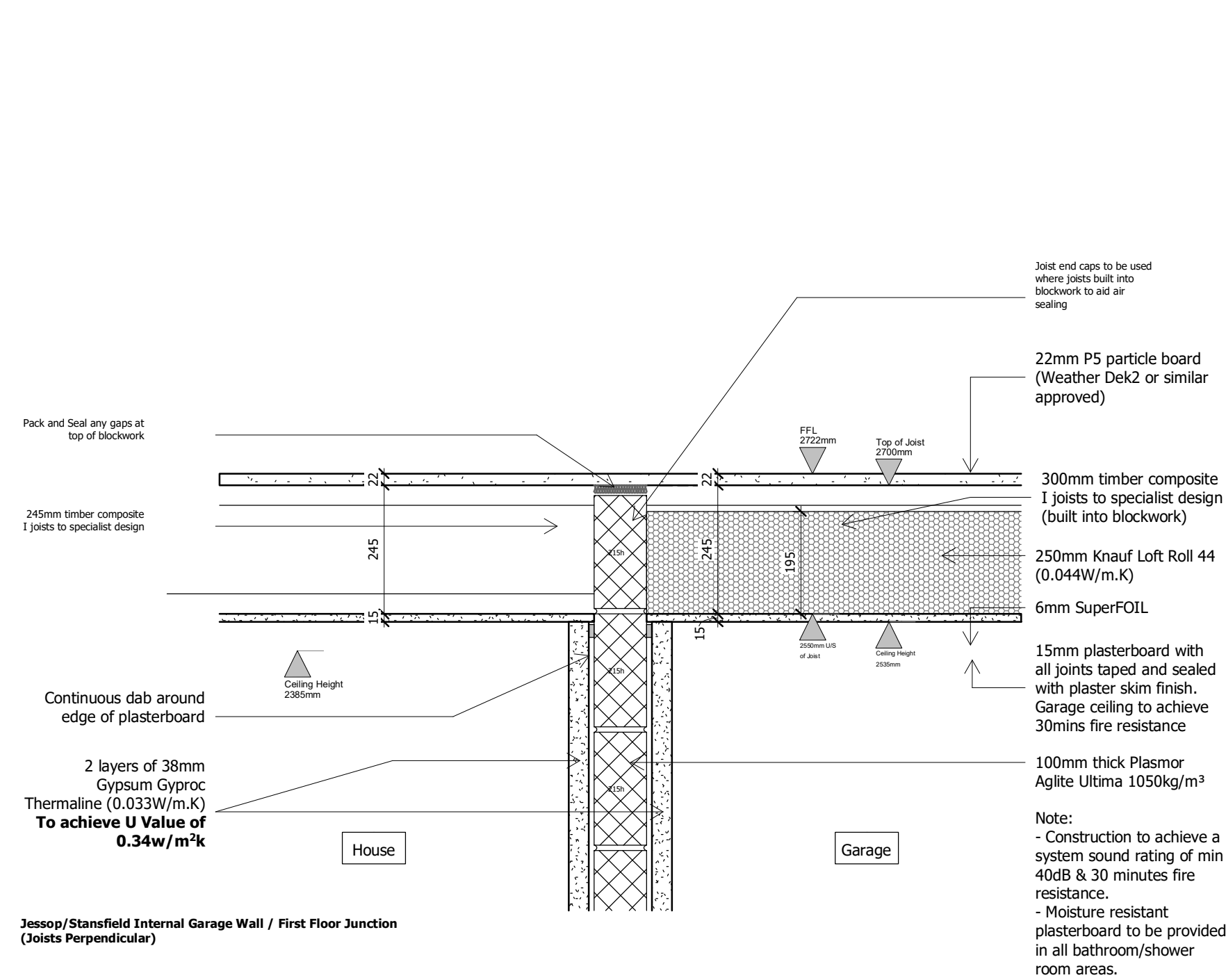
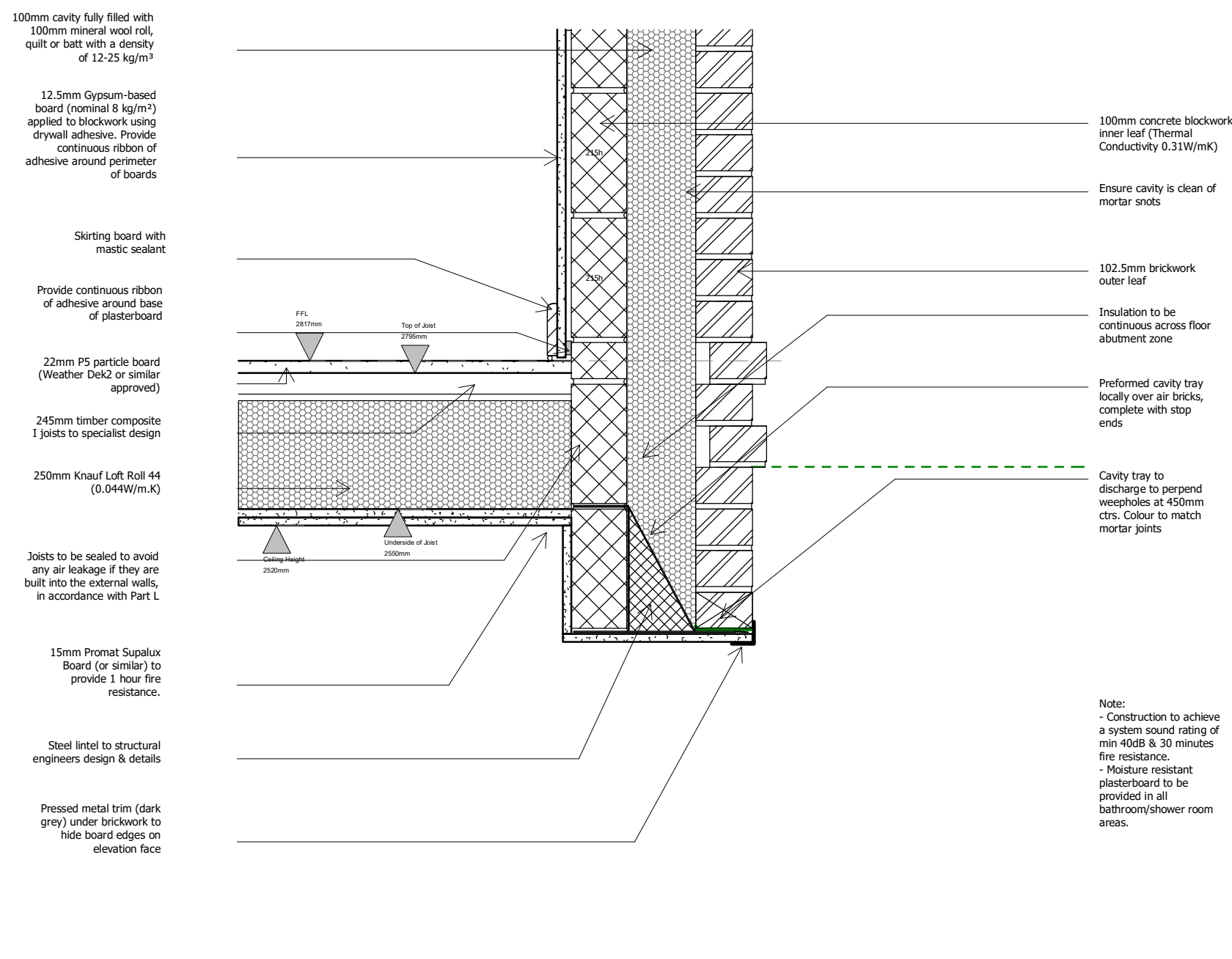
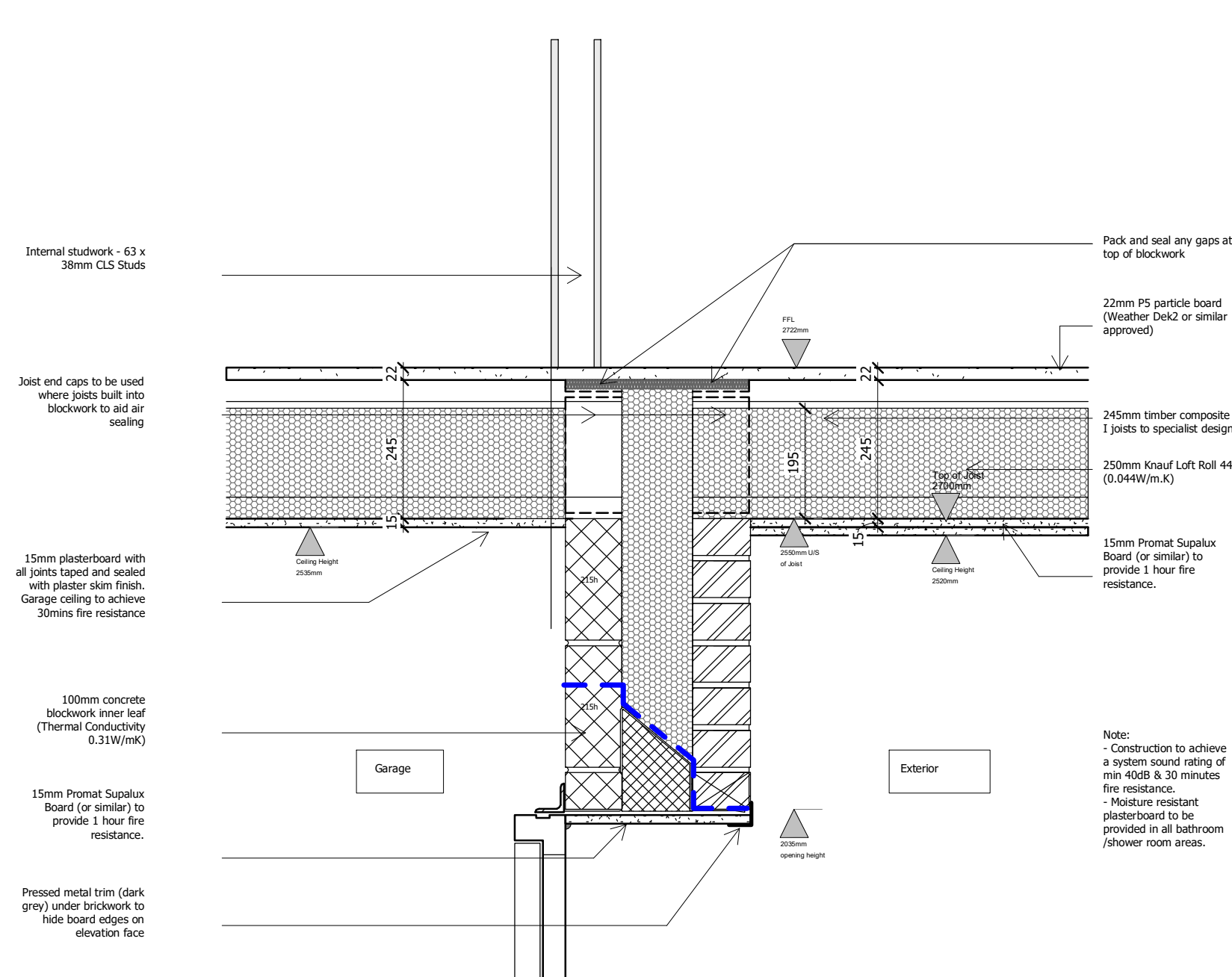
WATSON BATTY
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Guiseley, Leeds LS20 8EU
Leeds | Loughborough

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.

17.11.23 DW AH Initial issue.			
Date:	Drawn:	Checked:	Description:
ability:	\$0 Work In Progress		

ollin Gate, Littleborough

Feature Assembly Details - Sheet 1

Location:
Collingworth Road
Littleborough

ent:
ountryside Partnership

UPRN	Originator	Zone	Level	Type	Role	Series/Number	Revision:
OLL-WBA-XX-XX-DR-A-20_9201							P1
Date:	Drawn:	Checked:	Scale: @A1		Int Job No:		
02/28/23	WMB	RJ	As indicated		4046-001		

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Web: www.watsonbatty.com

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.

13.06.24	DW	AH	Updated membrane ref.
07.06.24	DW	AH	Initial Issue.

Date:	Drawn:	Checked:	Description:
ability:	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

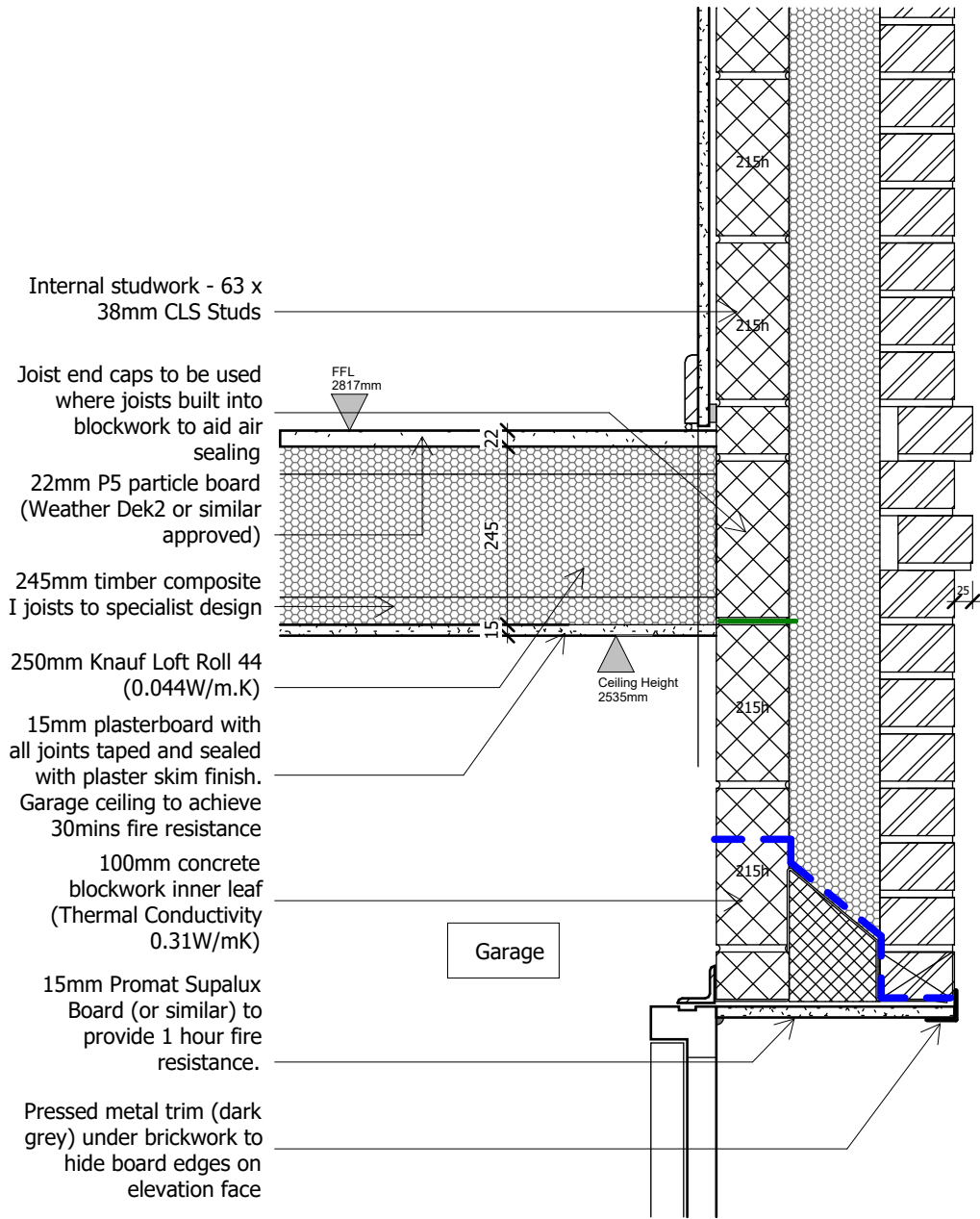
WATSON BATTY
4RCHITECTS

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

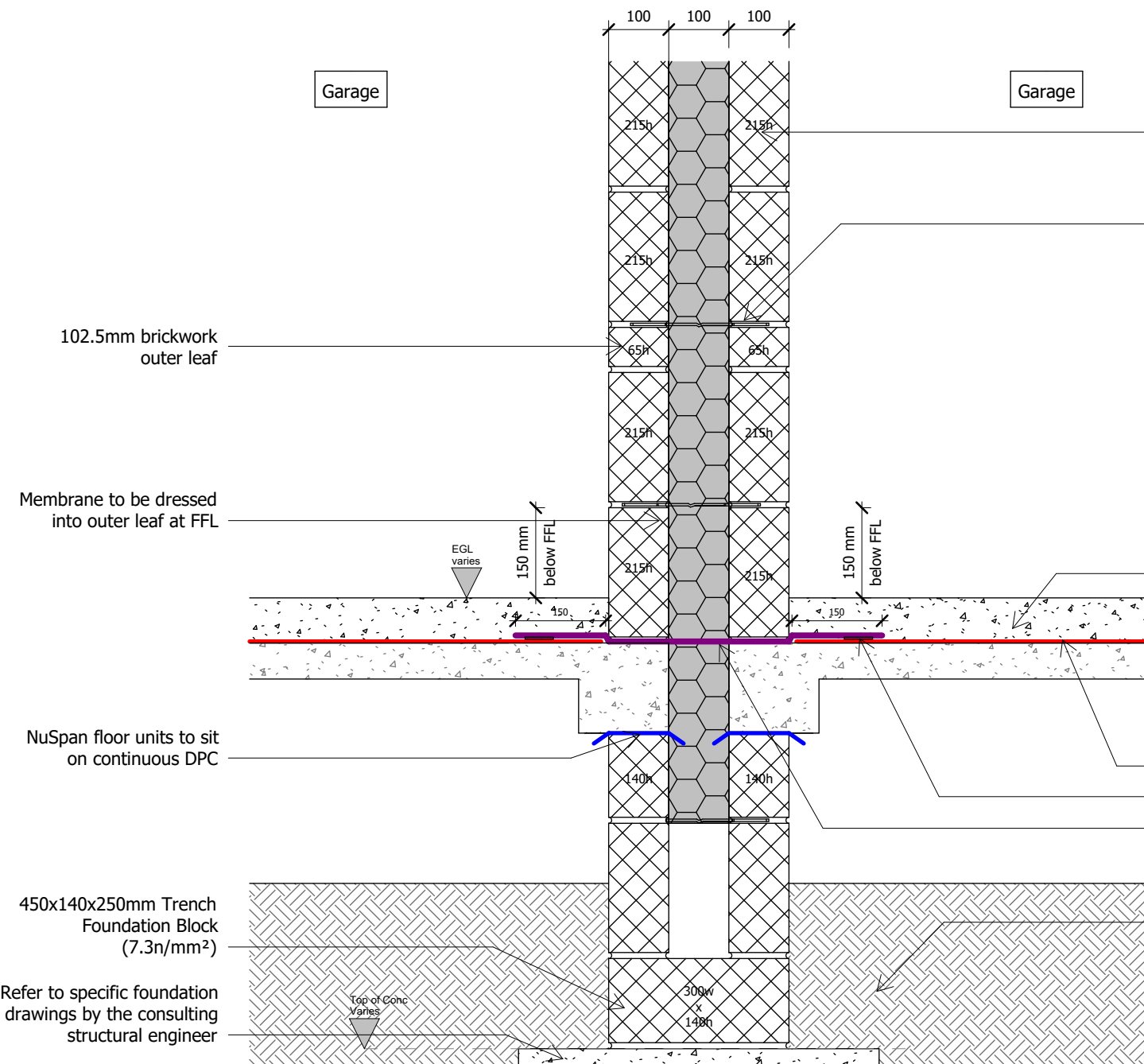
T: 01943 876 665
E: enquiries@watsonbatty.com
W: www.watsonbatty.com



FUTURE BUILT

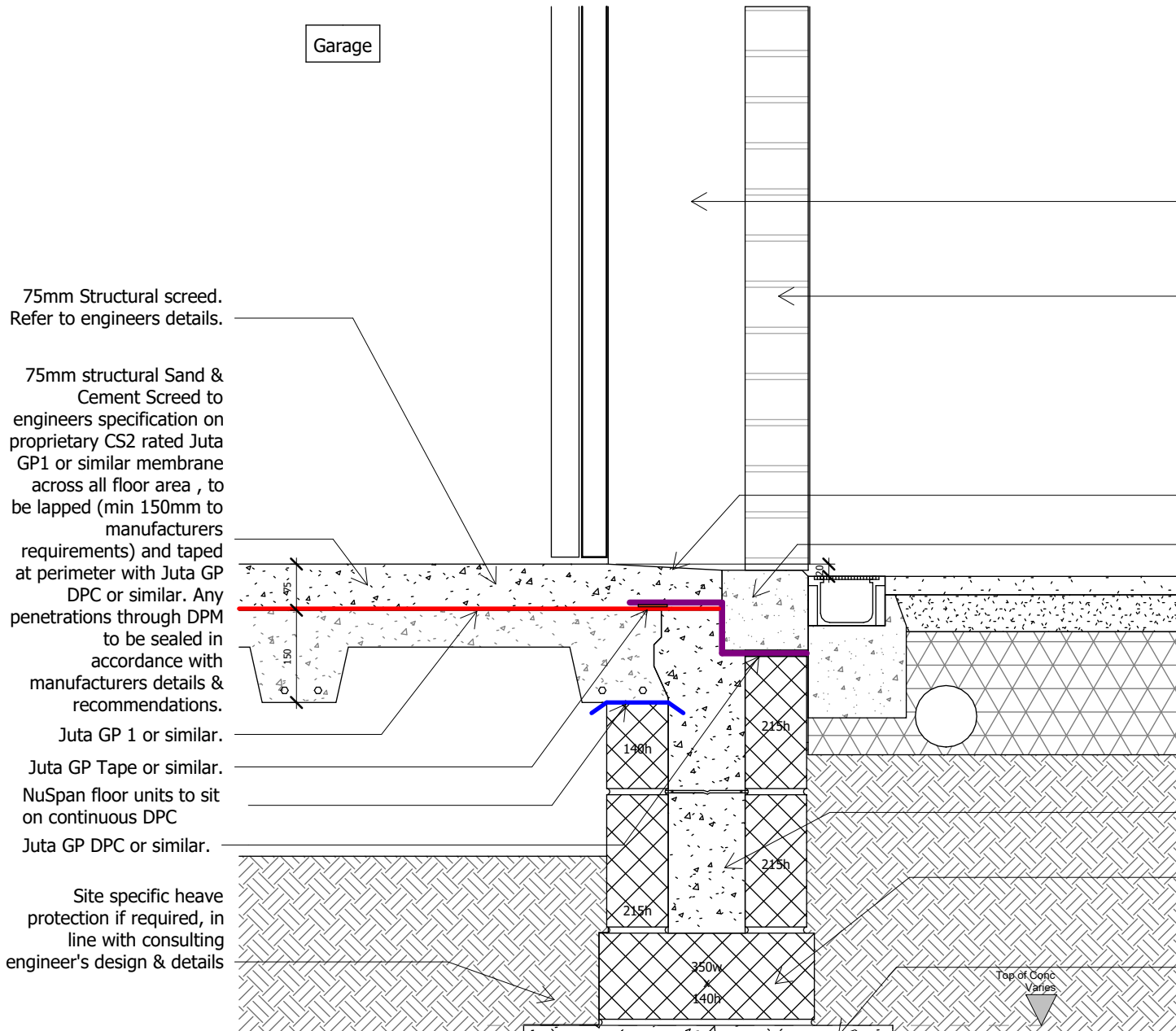


Stansfield Garage Wall / First Floor Junction
(Joists Perpendicular)

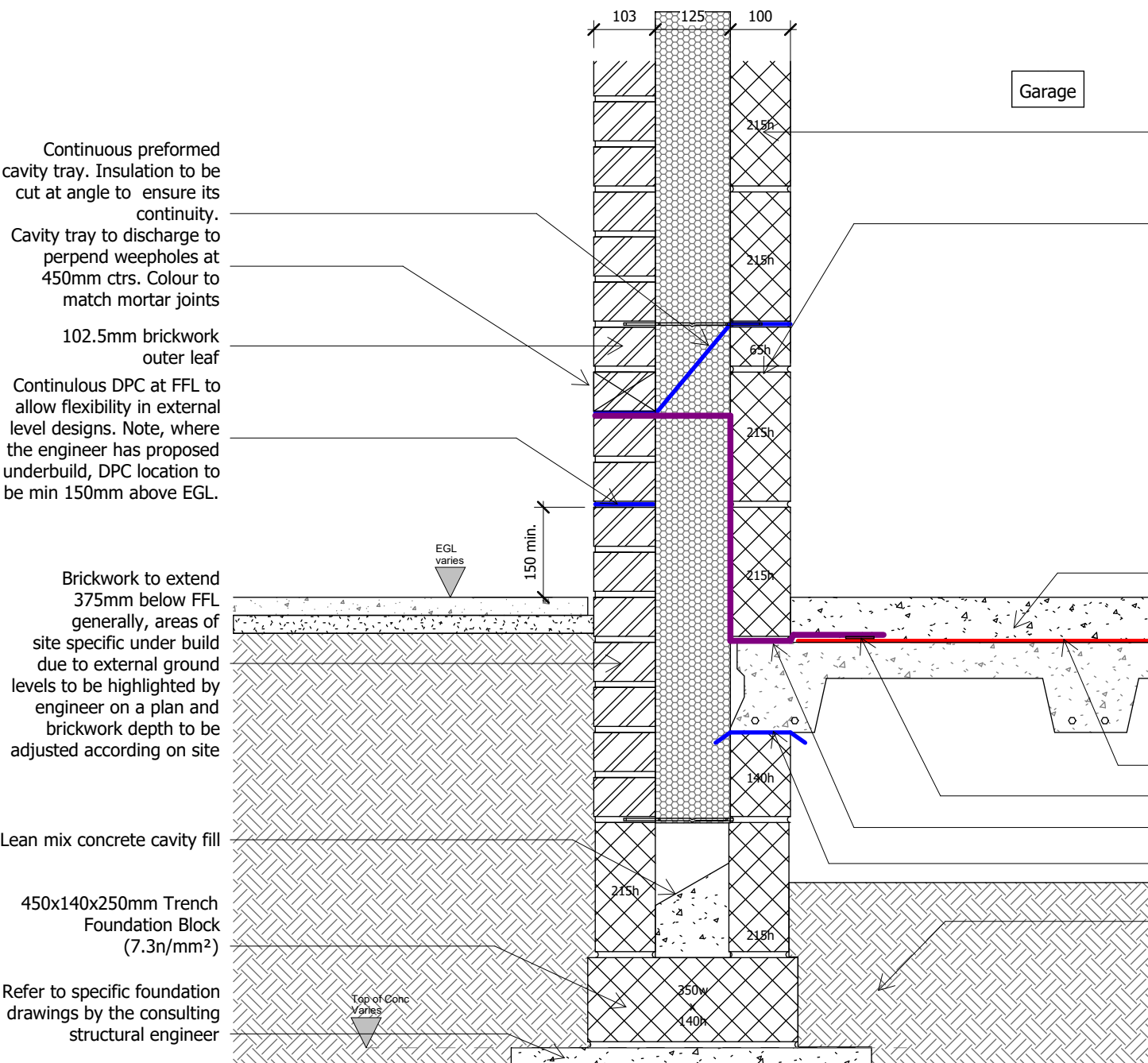


Seperating Wall Stansfield
Integral Garage Adjacent Pair - Robust Detail E-WM-34

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

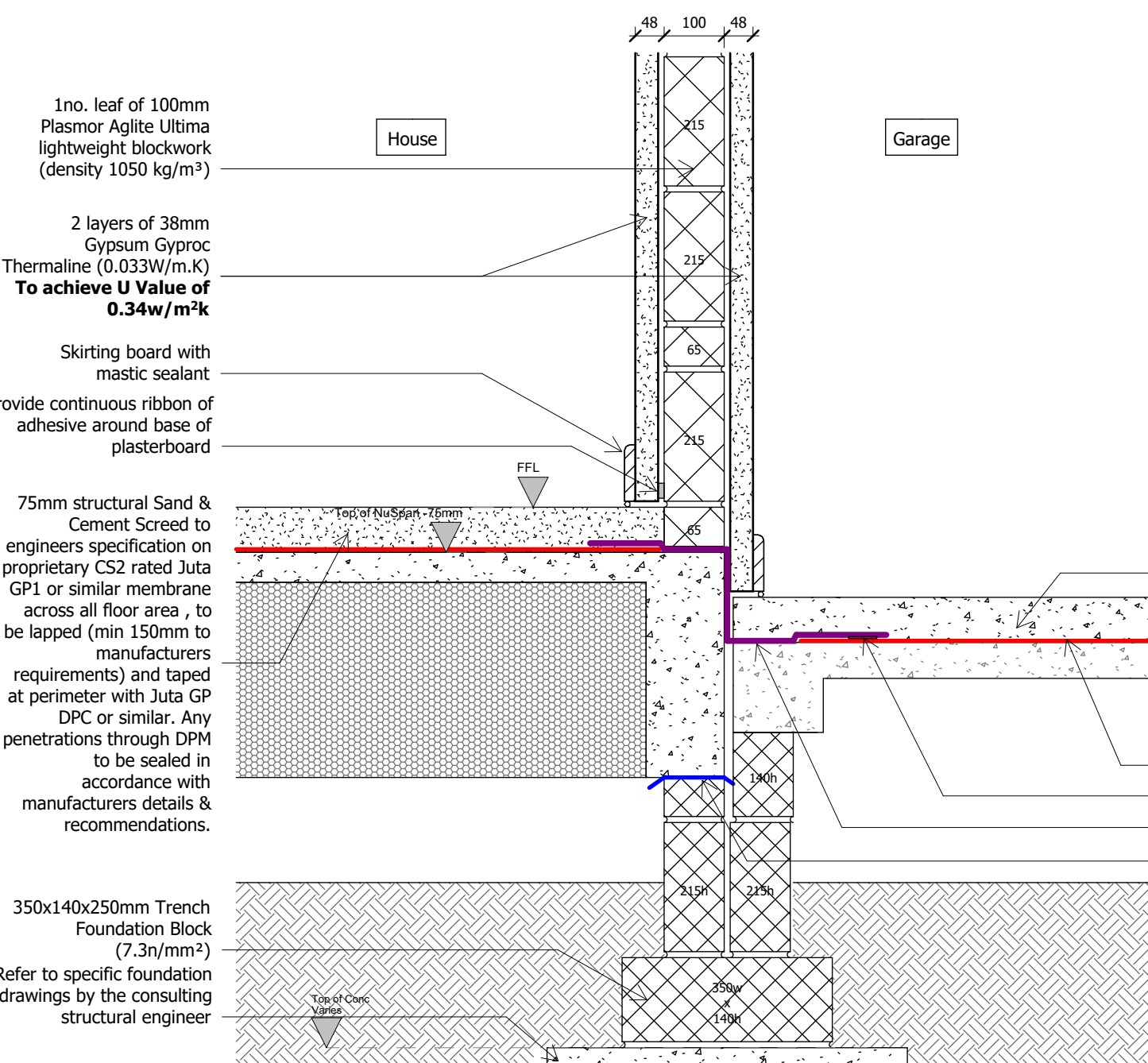
Pack and Seal any gaps at top of blockwork

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)

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 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

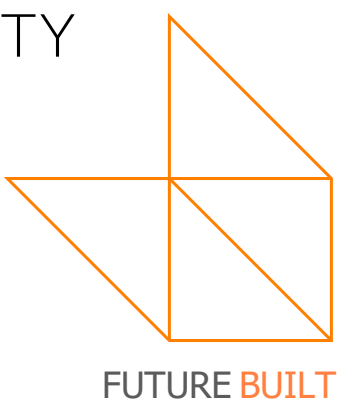
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Countryside Partnerships

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Date: Drawn: Checked: Scale: 0:1 Int Job No:
02/28/23 WMB RJ As indicated 4046-001

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