

**TYPE 1 ROOF CONSTRUCTION**  
 Warm Slate pitched Roof (28°) Consisting of: Double lapped 500mm x 250mm Cwt-y-Bugall Dark Blue Grey Welsh slate tile with min 90mm head-lap fixed with recess copper nails fixed through to SW battens (50 x 25 @ 205mm CL) fixed to Furrings onto Counter 50x 50 counter battens which are fixed through the insulation boards in to the composite base of plwood and sarking board using InSkew Super 6, 6 x 215mm long fixings, installed along the counter battens at 150mm centers in order to achieve an average density of 11.1 fixings per m<sup>2</sup> with Breathable Roofing underlay lapped over 125mm PIR Kingspan TP10 Thermapitch insulation on 25mm WPB Ply on 25mm existing sarking boards with vapour permeable underlay, min u-value of 0.18W/m<sup>2</sup>K. Ref Arch spec [H62]

EXISTING ROOF LEVEL  
 35261

**ROOF TILE**  
 Natural Slate: 500mm x 250mm  
 Cwt-y-Bugall Dark Blue Grey Welsh Slate 90mm Min head-lap fixed with copper nails to sw counter battens to be sized to suit pitch. @ 28°. Arch Spec [H62-001]

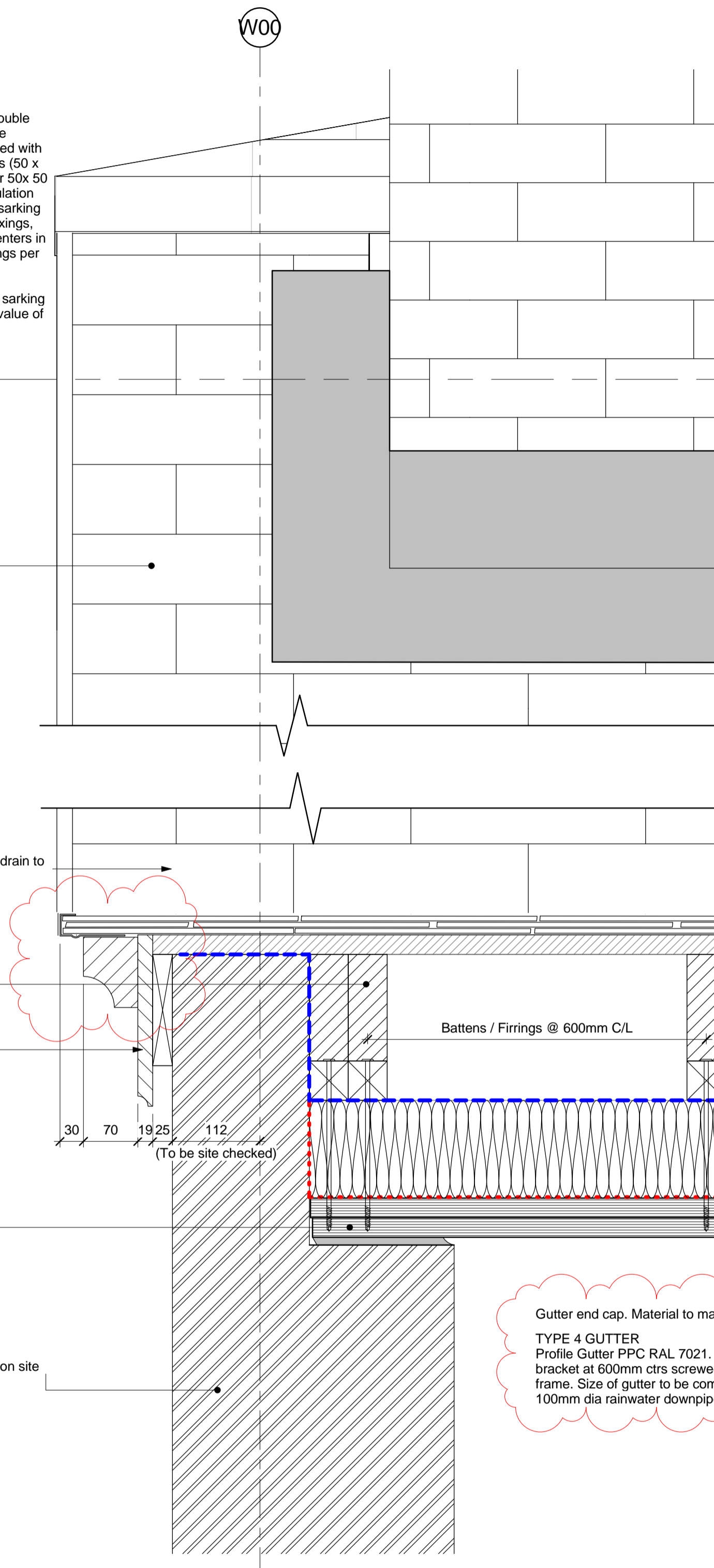
Slate roof tiles set back 50mm to allow water to drain to gutter below

**TIMBER FIRRING**  
 Timber Furring to SE details to suit Purlin zone

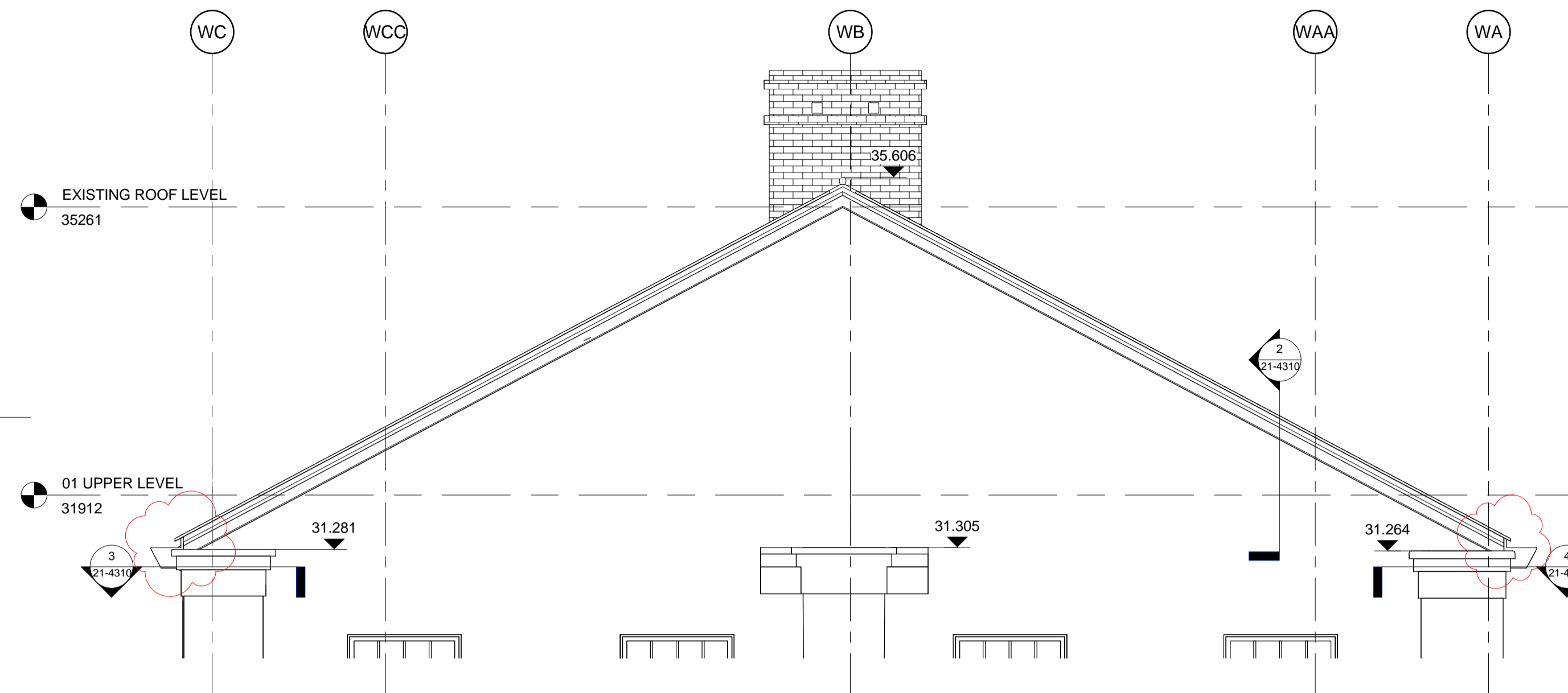
**BARGE BOARD & PROFILE**  
 Kebony brushed & stained.

**STRUCTURAL WBP PLYWOOD**  
 To be fixed together with the existing sarking in between the purlins using wood screws in order to achieve a sound composite base at 300mm x 300mm staggered centers. Structural WBP Plywood is to be fixed through the existing sarking board to the purlins using InSkew 600, 6 x 100mm long fixings, installed along the purlins at 150mm centers in order to achieve an average density of 4.6 fixings per m<sup>2</sup>.

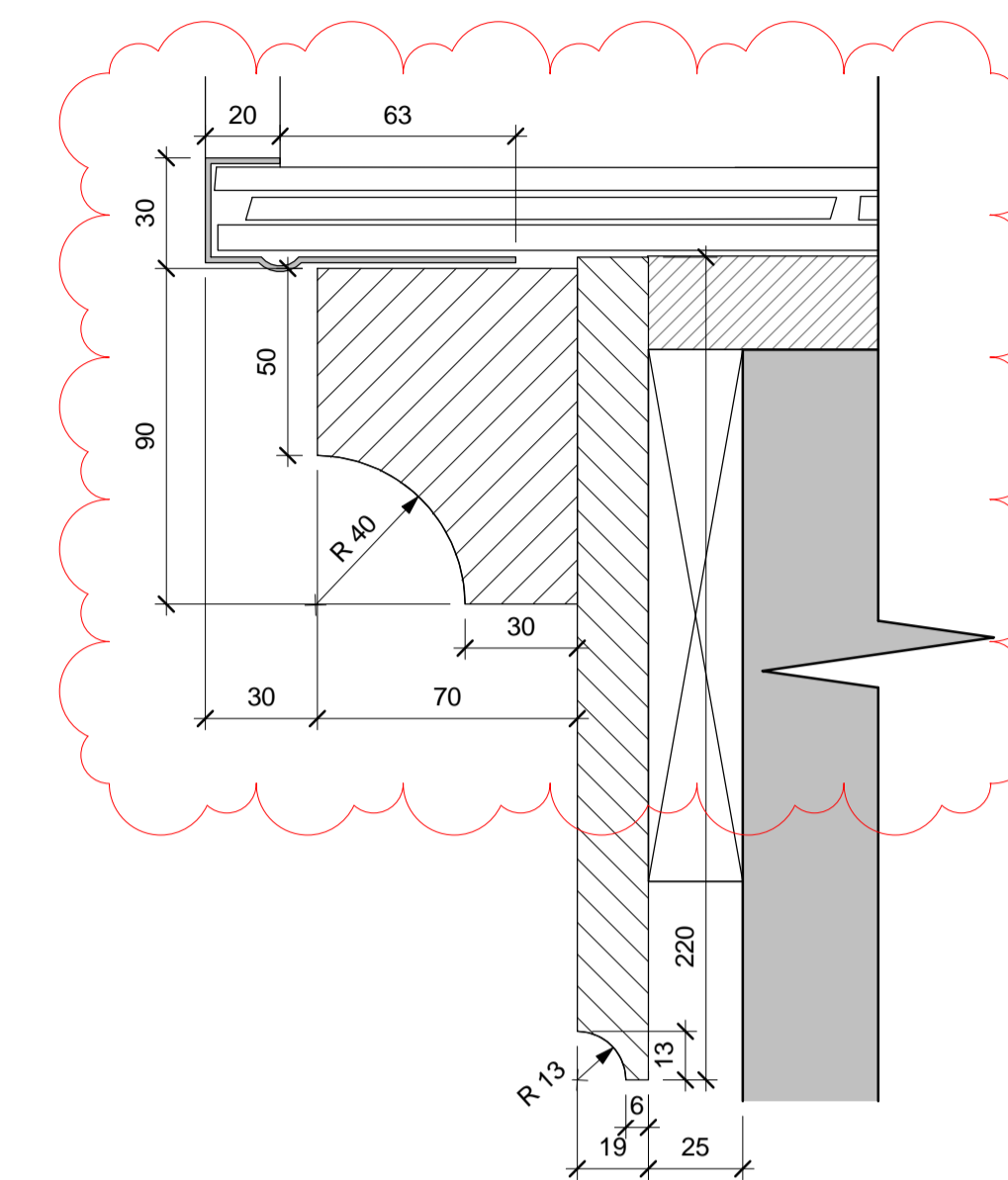
Existing ECD external wall, dims to be checked on site



**2 Eaves Section Detail E00 - WAA**  
 1 : 5

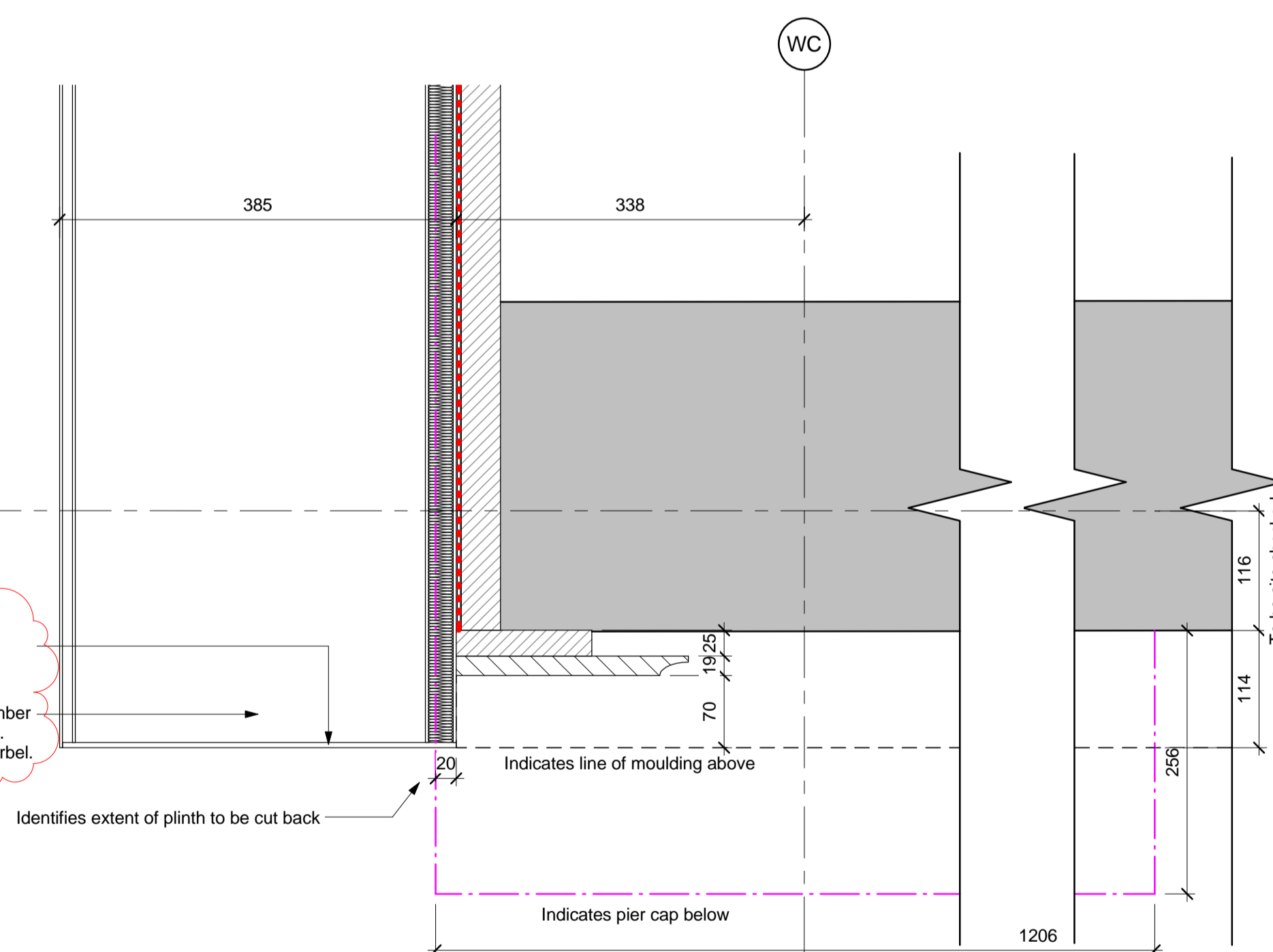


**1 Gable End South Elevation GL E00**  
 1 : 50

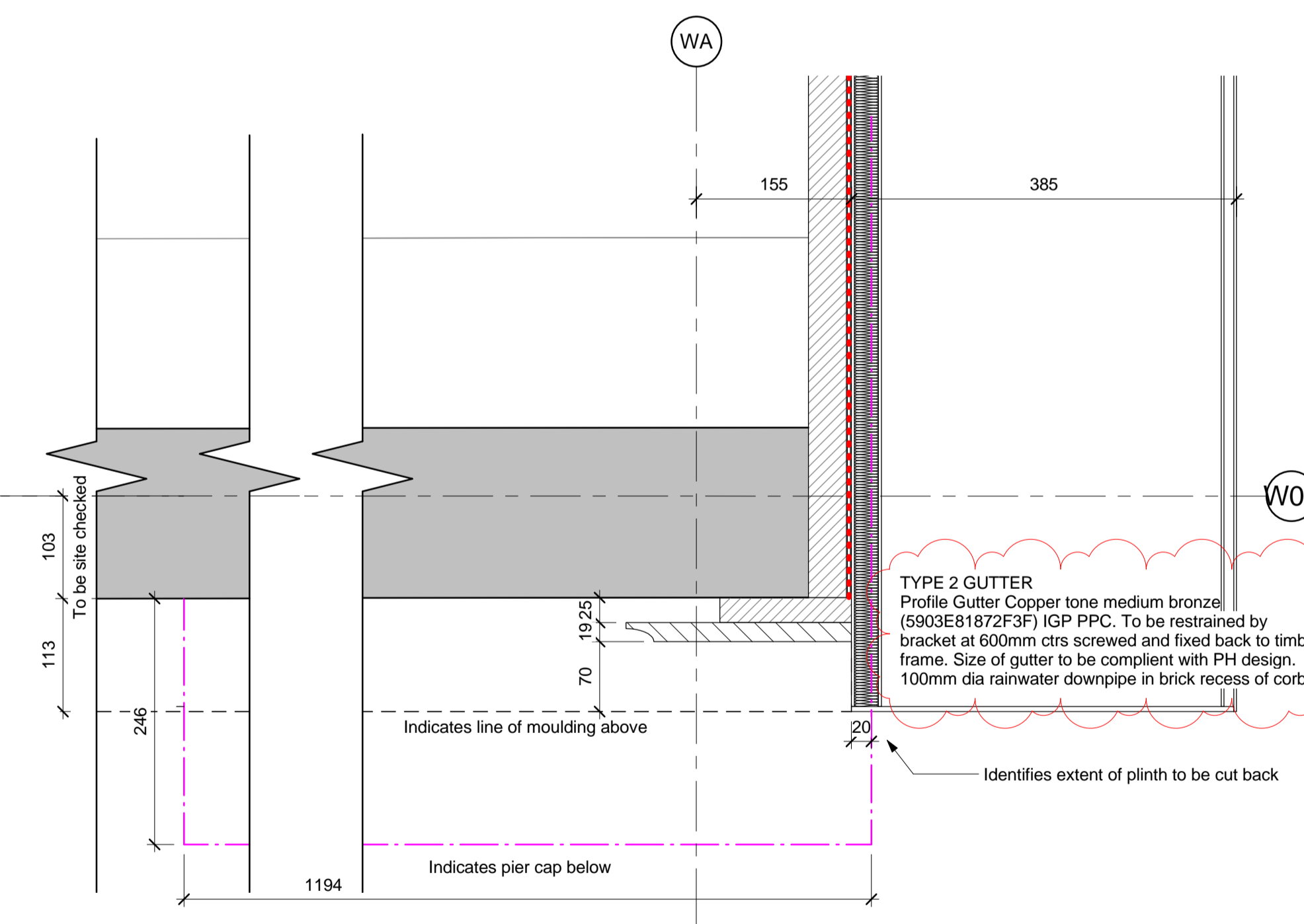


**5 Timber Bargeboard**  
 1 : 2

Gutter end cap. Material to match gutter  
**TYPE 4 GUTTER**  
 Profile Gutter PPC RAL 7021. To be restrained by bracket at 600mm ctrs screwed and fixed back to timber frame. Size of gutter to be compliant with PH design. 100mm dia rainwater downpipe in brick recess of corbel.



**3 Gable Jamb Plan Detail WC**  
 1 : 5



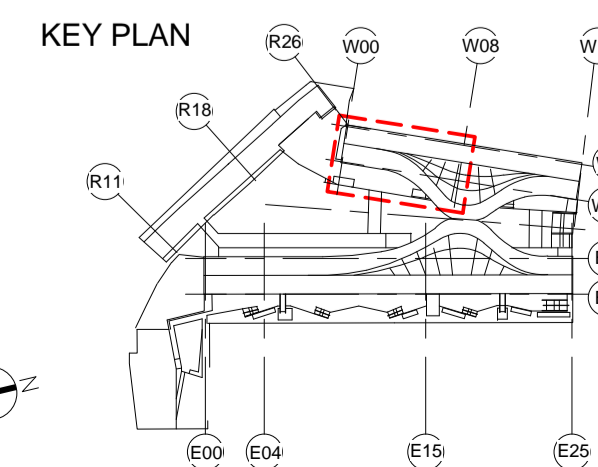
**4 Gable Jamb Plan Detail WA**  
 1 : 5

**Key Roof Membrane**

- Tyvek supro
- Dupont Airguard -VCL

<b>Status Code (as defined in BS1192)</b>	D3 - Issued for contractor design D4 - Issued for manufacture/procurement
<b>Work In Progress (WIP)</b>	<b>Documentation (Contractual)</b>
S0 - Initial Status or WIP	A - Issued for construction B - Issued for construction but with comments C - Comprehensive revision required
<b>Shared</b>	<b>Archive</b>
S1 - Issued for co-ordination S2 - Issued for information S3 - Issued for internal review S4 - Issued for construction approval	AB - Record Drawing
<b>Documentation (Pre-construction)</b>	
D1 - Issued for costing D2 - Issued for tender	

002	HR	DW	16.05.17	Gutter end cap profile and typeS updated, tile edge profile amended.
001	HR	DW	31.05.17	Initial Issue for Comment
rev	by	chkd	date	description



**bam**  
 An operating company of BAM Construct UK Ltd  
 Architecture  
 Interior Design  
 3D Visualisation  
 Feasibility Studies  
 Structural Engineering  
 Environmental Services  
 Building Information Modelling

Centrium Business Park  
 Griffiths Way, St Albans  
 Hemel Hempstead, AL1 2RD  
 01727 894300  
 design@bam.co.uk  
 www.bam.co.uk

project	COAL DROPS YARD	purpose of issue	CONSTRUCTION
title	WCD Gable End South	BAM job no.	
scale	As indicated @ A1	drawn	HR
date	31/05/17	checked	DW
size	1/1227 894300	Rev	4389
design/ doc ref	KXC-M1- 001-BD4389-A-21-4310	role	CKSFB
		rev	002

**TYPE 1 ROOF CONSTRUCTION**  
 Warm Slate pitched Roof (28°) Consisting of: Double lapped 500mm x 250mm Cwt-y-Bugail Dark Blue Greywelsh slate tile with min 90mm head-lap fixed with recess copper nails fixed through to SW battens (50 x 25 @ 205mm CL) fixed to Furrings onto Counter 50x50 counter battens which are fixed through the insulation boards in to the composite base of plywood and sarking board using InSkew Super 6, 6 x 215mm long fixings, installed along the counter battens at 150mm centers in order to achieve an average density of 11.1 fixings per m<sup>2</sup>.) with Breathable Roofing underlay lapped over 125mm PIR Kingspan TP10 Thermapitch insulation on 25mm WPB Ply on 25mm existing sarking boards with vapour permeable underlay. min u-value of 0.18W/m<sup>2</sup>K.Ref Arch spec [H62]

**TIMBER FIRRING**  
 Timber Furring to SE details to suit Purlin zone

**STRUCTURAL WBP PLYWOOD**  
 To be fixed together with the existing sarking in between the purlins using wood screws in order to achieve a sound composite base at 300mm x 300mm staggered centers. Structural WBP Plywood is to be fixed through the existing sarking board to the purlins using InSkew 600, 6 x 100mm long fixings, installed along the purlins at 150mm centers in order to achieve an average density of 4.6 fixings per m<sup>2</sup>.

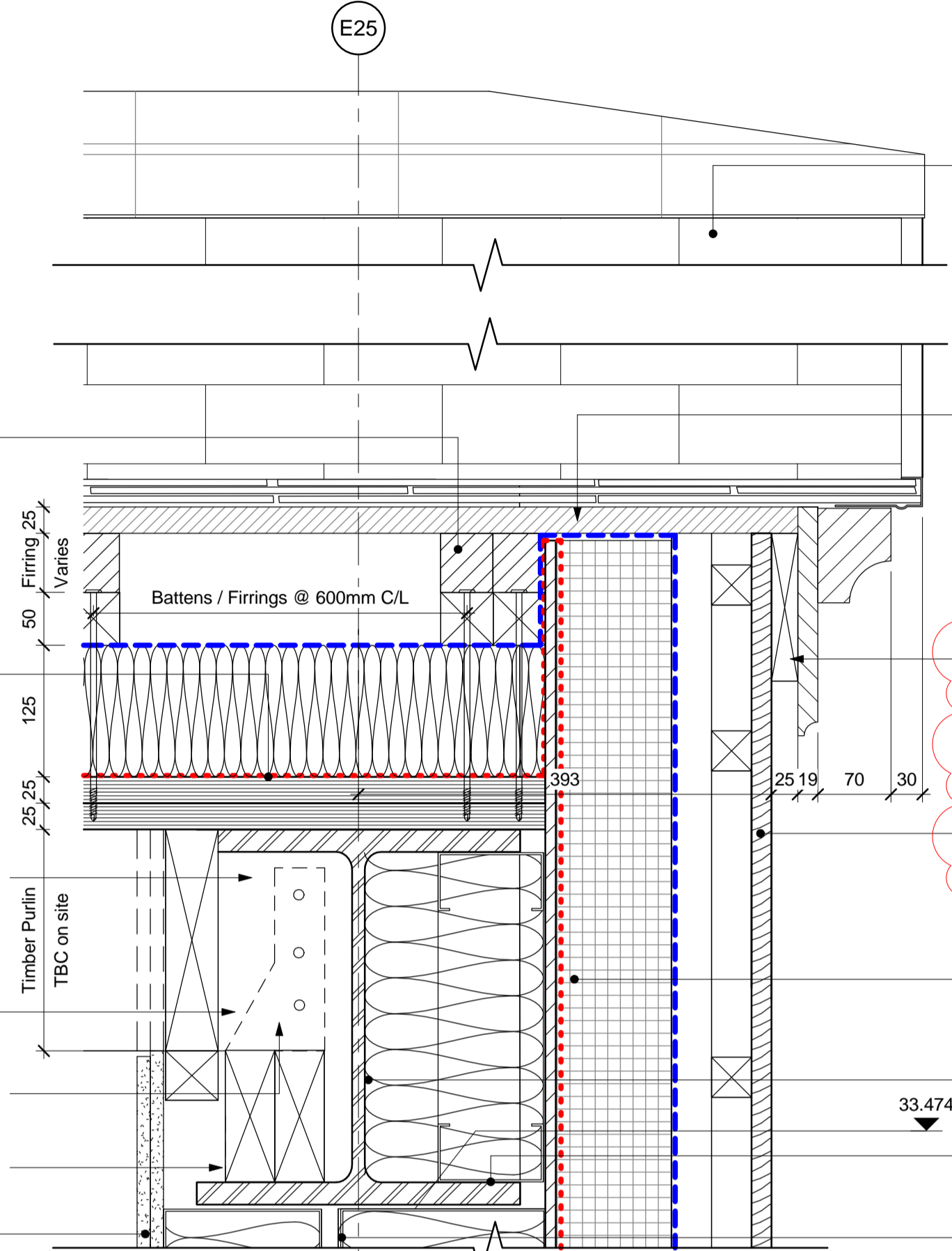
PLEASE REF ARUP DRAWING FOR CONNECTION DETAIL (W) 6075 DETAIL 8

Mineral wool insulation omitted for clarity. Required to achieve desired 'U' Value.

**PURLIN FRAMING -**  
 Strong Tie Joist hanger IUC 192/75 or sim approved to be fixed back to timber bolted to steel gable to SE details.

**FRAMING -**  
 47x125mm Timber packer purlin support.

Plasterboard



**ROOF TILE**  
 Natural Slate 500mm x 250mm Cwt-y-Bugail Dark Blue Grey Welsh Slate 90mm Min head-lap fixed with copper nails to sw counter battens to be sized to suit pitch. @ 28°. Arch Spec [H62-001]

**TIMBER BATTENS**  
 25x50 mm Treated to BS 5534 sized to suit pitch @ 205mm Centres.

**BARGE BOARD & PROFILE**  
 Kebony brushed.

**TIMBER CLADDING VERTICAL**  
 KEBONY® Brushed 19x144mm T&G. Fixed back to treated softwood battens & 38x50mm treated counter battens. All to be fixed thro' 150mm rigid board insulation into cement particle board.

**INSULATION**  
 110mm thk TW50 Kingspan (sim. approved)

**FRAMING**  
 100mm SFS zone TBC by SE @ 450mm ctrs fixed back to secondary steel

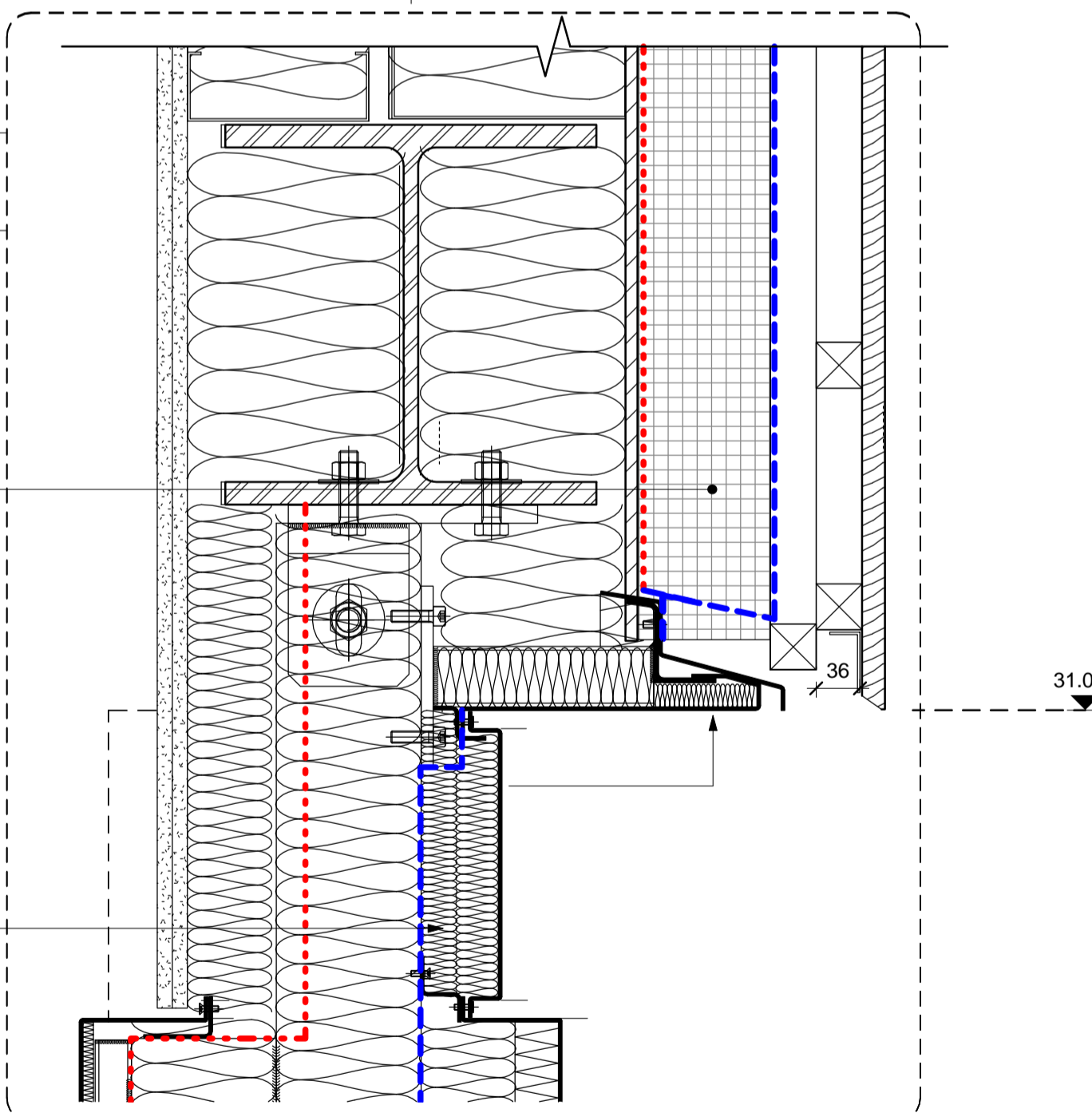
**FRAMING**  
 200mm SFS zone TBC bt SE

**INSULATION**  
 110mm thk TW50 Kingspan (sim. approved)

**METAL PPC SOFFIT**  
 3mm Aluminium PPC metal insulated soffit system by F&R specialist subcontractor. Standard RAL 9011

**METAL PANEL**  
 PPC 3mm Aluminium insulated Metal Panel fixed to F&R slimline framing system. To specialist sub-contractor design. Standard RAL 9011

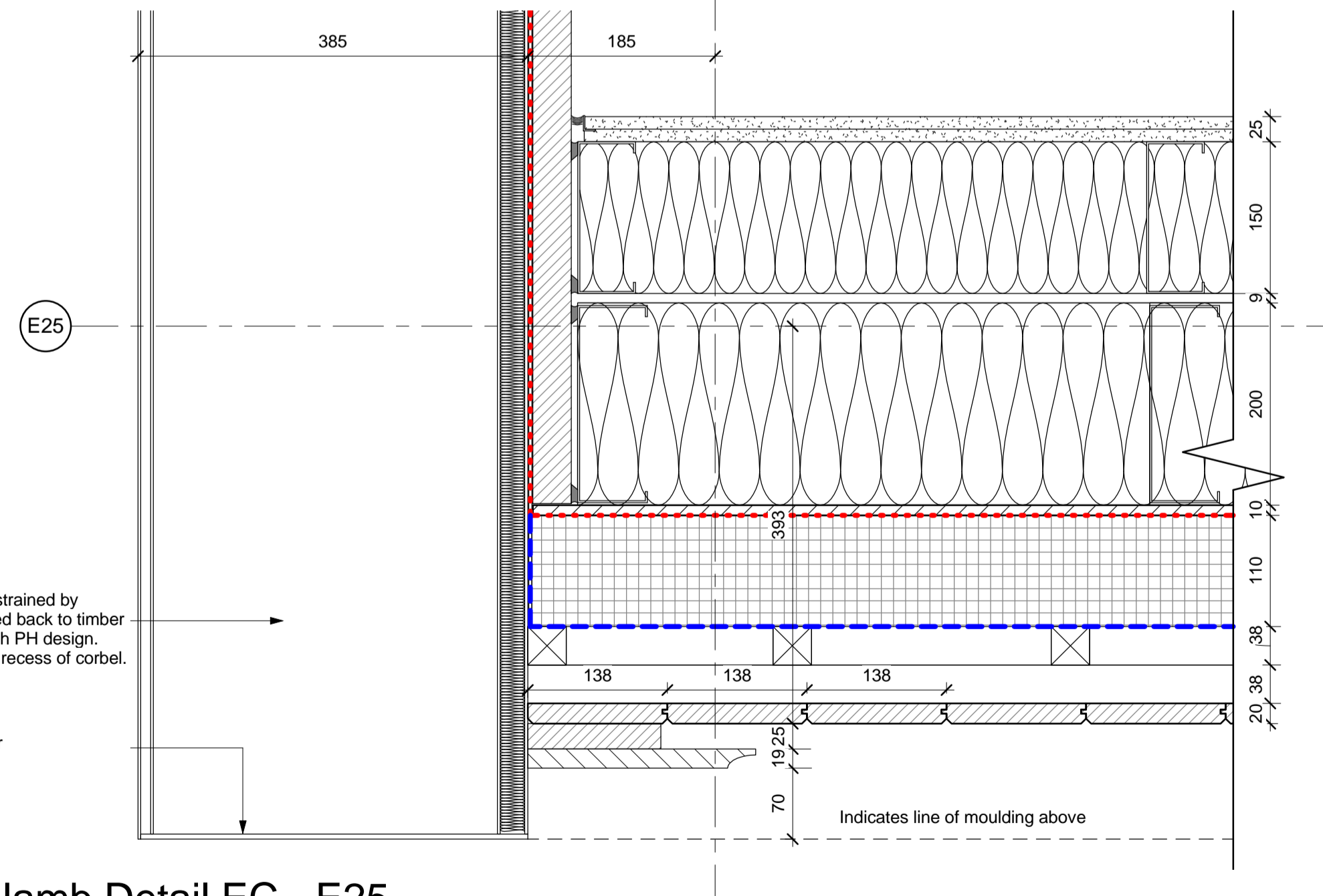
**3 Typical Rainscreen Eaves Section Detail ECD & WCD North**  
 1 : 5



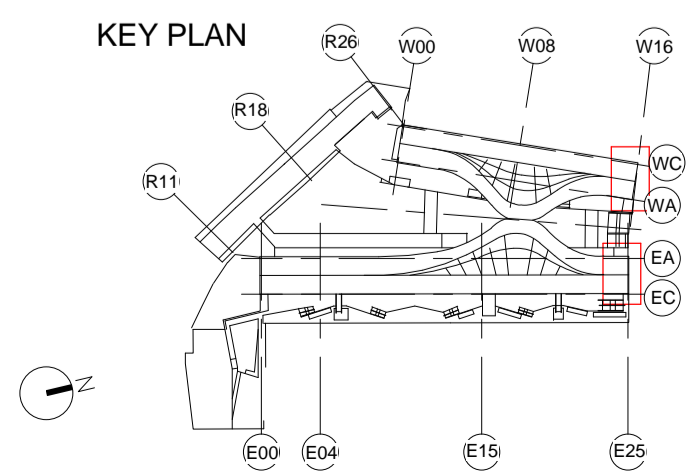
**TYPE 4 GUTTER**  
 Profile Gutter PPC RAL 7021. To be restrained by bracket at 600mm ctrs screwed and fixed back to timber frame. Size of gutter to be compliant with PH design. 100mm dia rainwater downpipe in brick recess of corbel.

Gutter end cap. Material to match gutter

**4 Gable Plan Jamb Detail EC - E25**  
 1 : 5



KEY PLAN



no	by	date	description	
008	HR	DW	23.06.17	Kebony note amended, gutter types indicated.
007	HR	DW	12.06.17	Kebony cladding size amended, gutter end cap profile and type updated, tile edge profile amended.
006	HR	DW	30.05.17	Clearer setting out updated, Detail 5 added. Lead roll ridge and tile cap added.
005	HR	DW	04.05.17	Gable ladder, batten layout & weather lines updated
004	VH	DW	14.07.17	Roof section detail updated
003	CM	IAW	09.12.16	Omit lead verge detail & include T&G boarding
002	VH	IMWB	08.06.16	updated to suit comments dated 20.06.16
001	DGW	MWB	17.06.16	Construction issue



**bam**  
 An operating company of BAM Construct UK Ltd  
 Architecture  
 Interior Design  
 3D Visualisation  
 Feasibility Studies  
 Structural Engineering  
 Environmental Services  
 Building Information Modelling

Centrium Business Park  
 Griffiths Way, St Albans  
 Hemel Hempstead, AL1 2RD  
 01727 894200  
 design@bam.co.uk  
 www.bam.co.uk

project COAL DROPS YARD

WCD-ECD North timber gable End Elevation and details

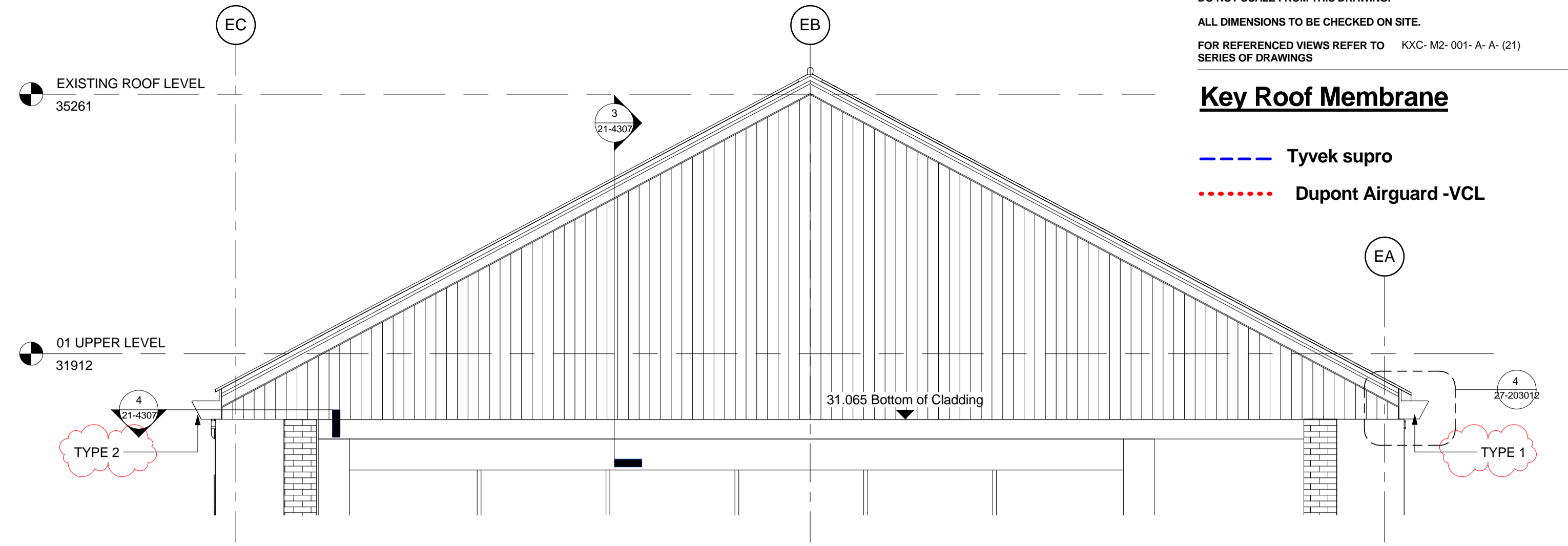
purpose of issue CONSTRUCTION

scale	date	drawn	checked	drawn	job no.	drawn	status
As indicated @ A1	06/17/16	DGW	MWB	4389			S4
design@bam.co.uk	KXC-M2- 001-BD4389-A-21-4307						008

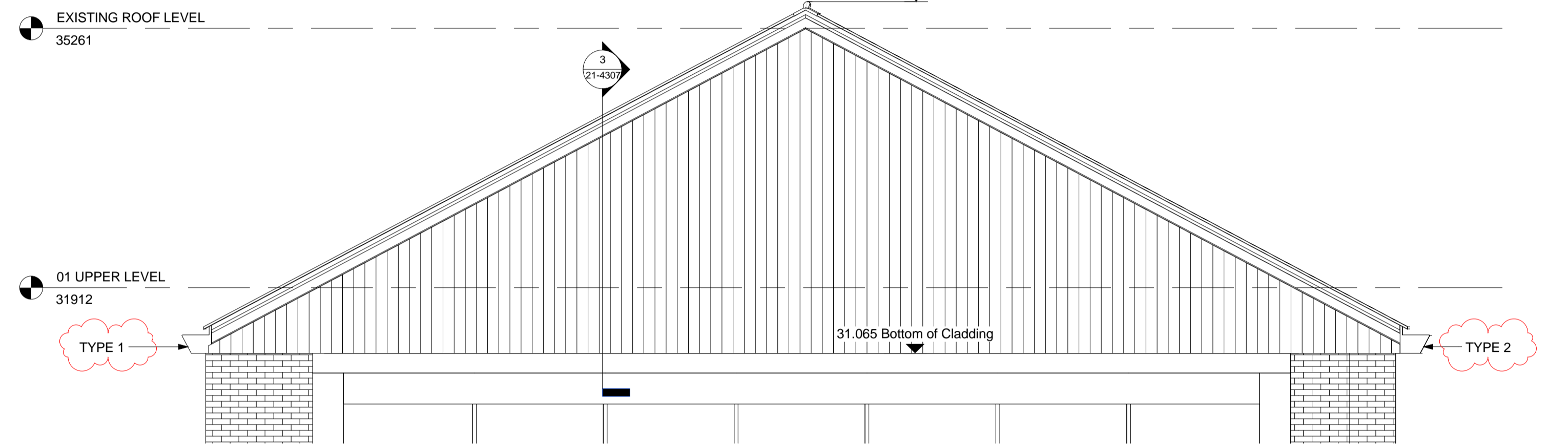
DO NOT SCALE FROM THIS DRAWING.  
 ALL DIMENSIONS TO BE CHECKED ON SITE.  
 FOR REFERENCED VIEWS REFER TO SERIES OF DRAWINGS KXC-M2-001-A-A-(21)

**Key Roof Membrane**

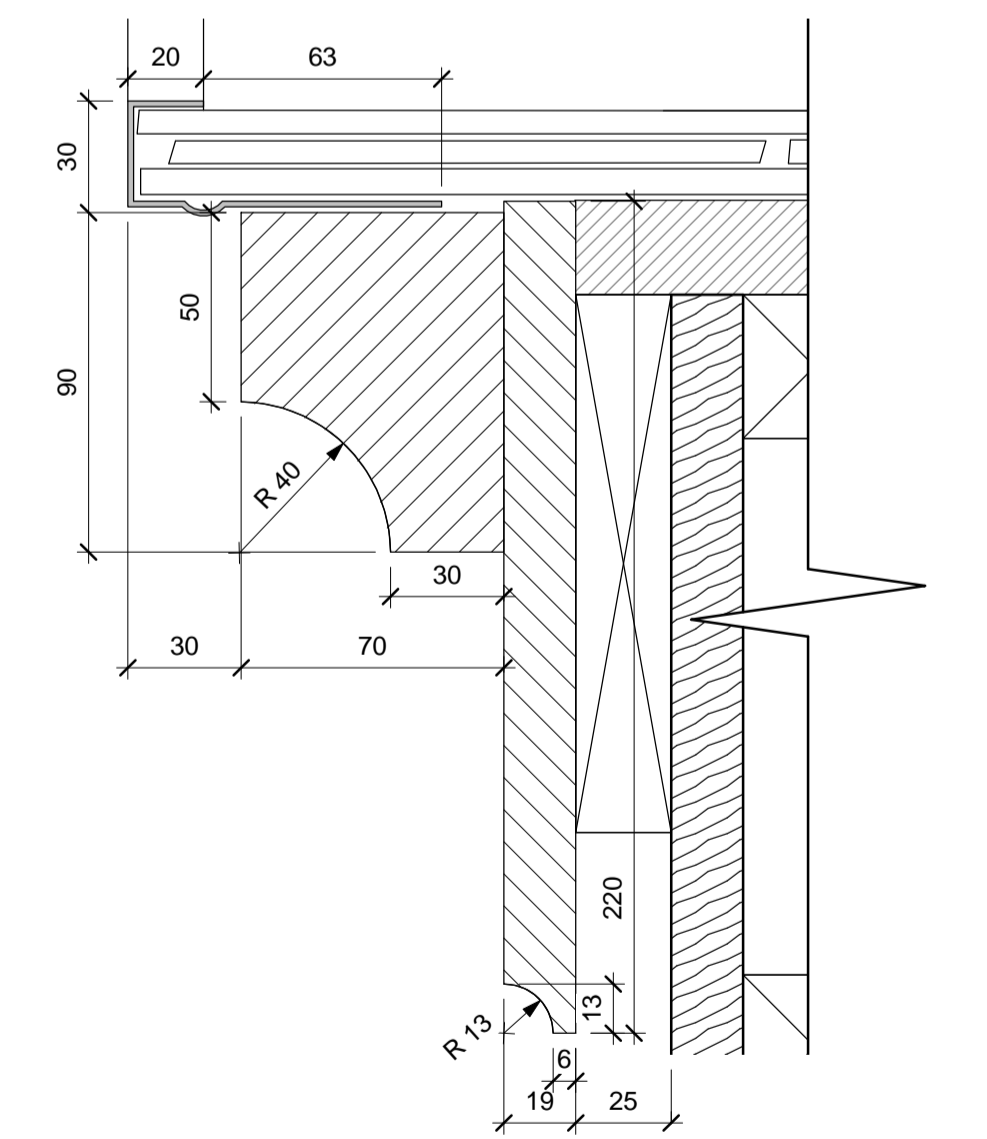
--- Tyvek supro  
 ..... Dupont Airguard -VCL



**1 ECD Gable End North Elevation GL E25**  
 1 : 50



**2 WCD Gable end North elevation GL W16**  
 1 : 50



**5 Timber Bargeboard**  
 1 : 2

**TYPE 1 ROOF CONSTRUCTION**  
 Warm Slate pitched Roof (28°) Consisting of: Double lapped 500mm x 250mm Cwt-y-Bugall Dark Blue Greyweth slate tile with min 30mm head-lap fixed with recess copper nails fixed through to SW battens (50 x 25 @ 205mm CL) fixed to Furrings onto Counter 50x50 counter battens which are fixed through the insulation boards in to the composite base of plwood and sarking board using InSkew Super 6, 6 x 215mm long fixings, installed along the counter battens at 150mm centers in order to achieve an average density of 11.1 fixings per m<sup>2</sup>.) with Breathable Roofing underlay lapped over.125mm PIR Kingspan TP10 Thermapitch insulation on 25mm WPB Ply on 25mm existing sarking boards with vapour permeable underlay. min u-value of 0.18W/m<sup>2</sup>K.Ref Arch spec [H62]

Slate roof tiles set back 50mm to allow water to drain to gutter below

**BARGE BOARD & PROFILE**  
 Kebony brushed & stained.

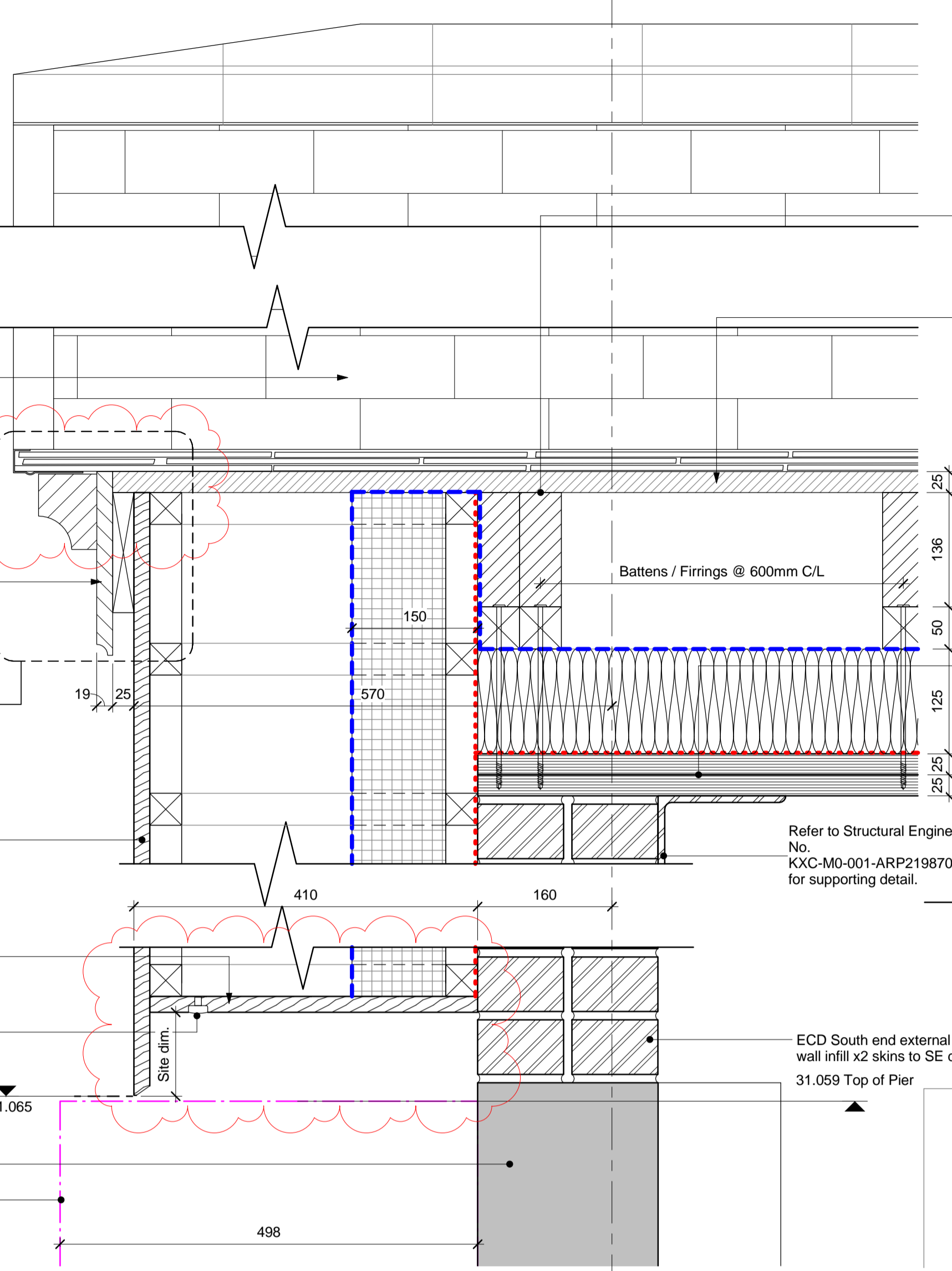
**TIMBER CLADDING VERTICAL**  
 KEBONY Brushed and stained  
 19x144mm T&G. Fixed back to treated softwood battens & 38x50mm treated counter battens. All to be fixed thro' 150mm rigid board insulation into cement particle board.

**TIMBER SOFFIT**  
 Painted timber soffit system by specialist subcontractor.

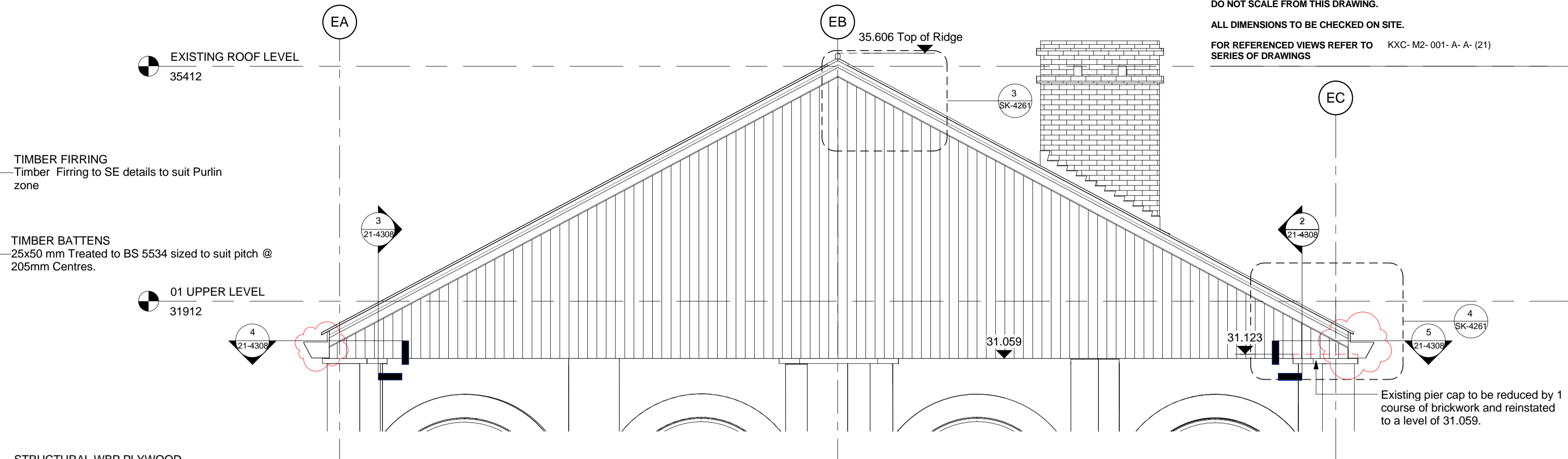
Soffit Ventilator

Existing ECD external wall. dims to be checked on site

Existing ECD external wall pier. shown in elevation approx.



**2 Rainscreen Eaves Section Detail E00 - EA**  
 1 : 5



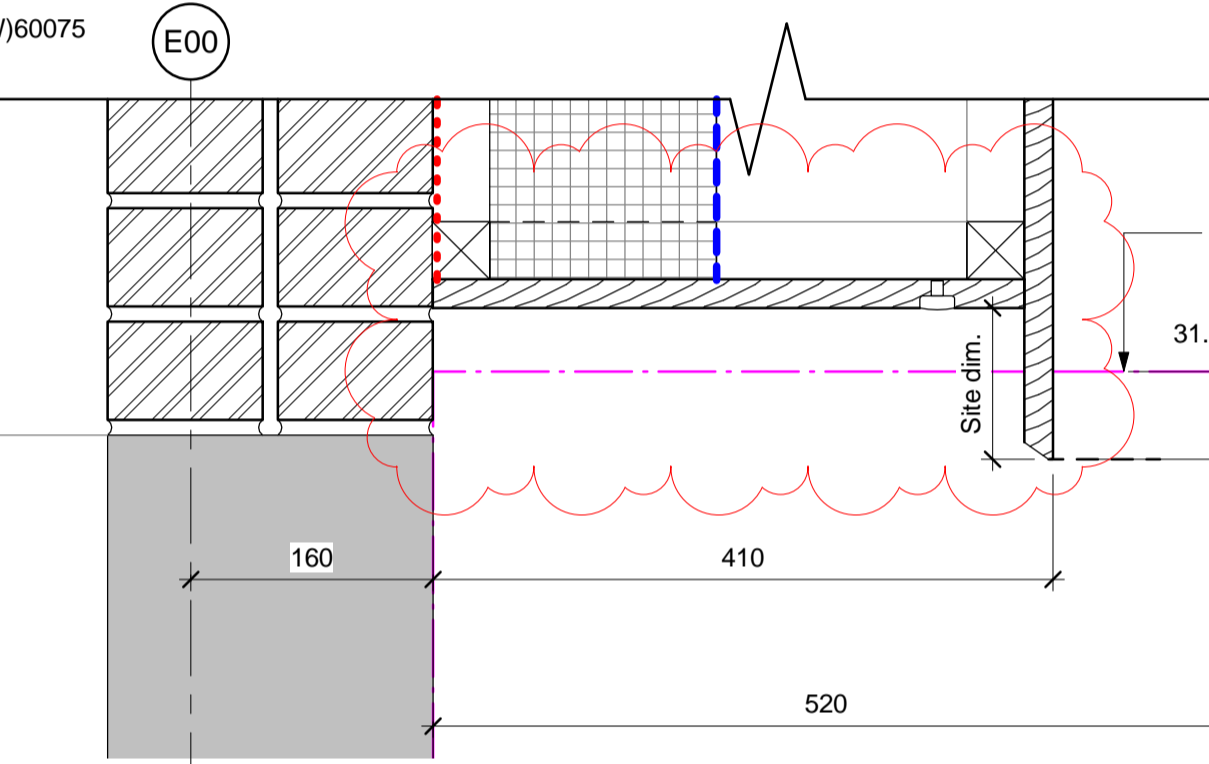
**1 Gable End South Elevation GL E00**  
 1 : 50

**TIMBER FIRRING**  
 Timber Furring to SE details to suit Purlin zone

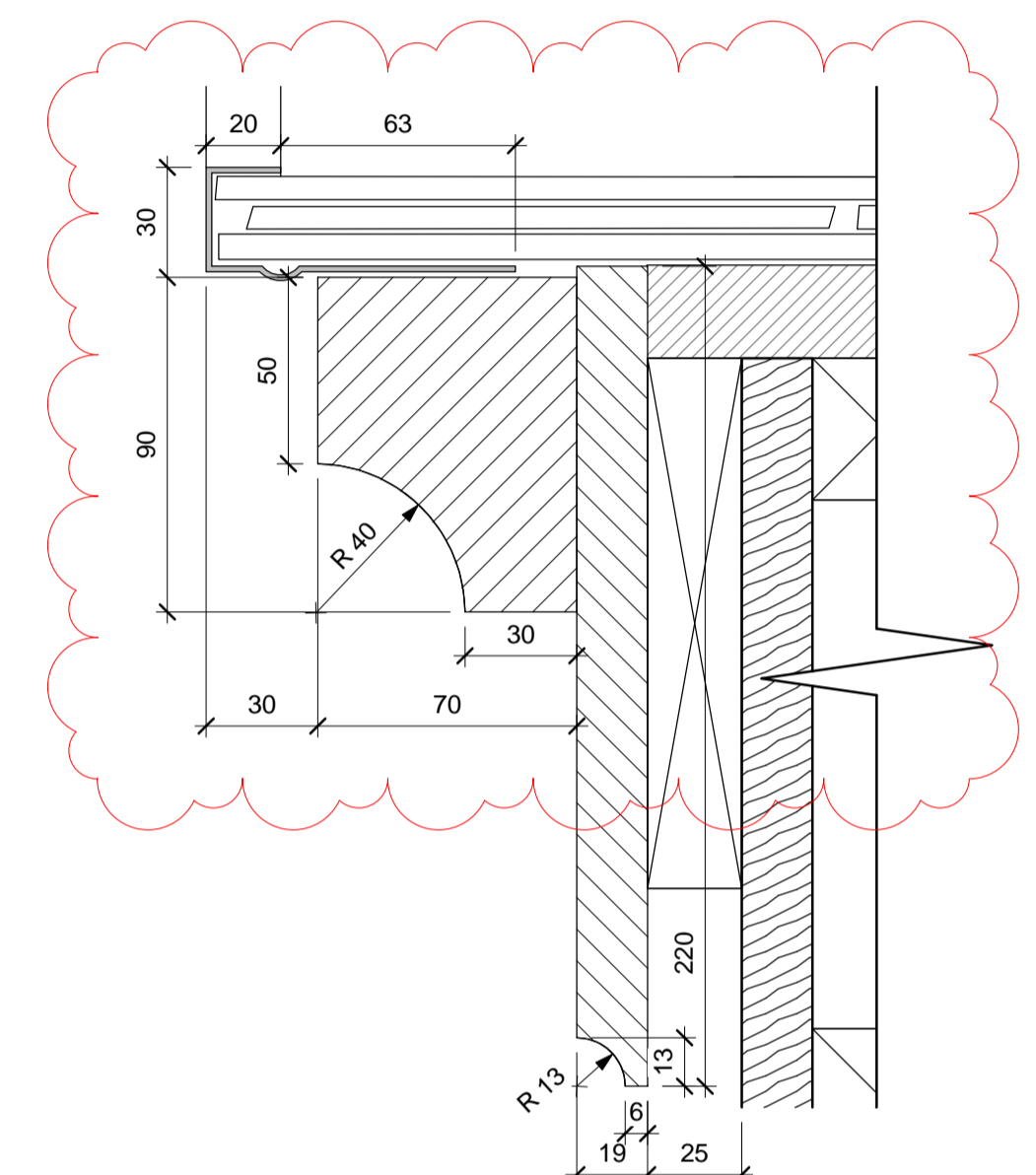
**TIMBER BATTENS**  
 25x50 mm Treated to BS 5534 sized to suit pitch @ 205mm Centres.

**STRUCTURAL WBP PLYWOOD**  
 To be fixed together with the existing sarking in between the purlins using wood screws in order to achieve a sound composite base at 300mm x 300mm staggered centers. Structural WBP Plywood is to be fixed through the existing sarking board to the purlins using InSkew 600, 6 x 100mm long fixings, installed along the purlins at 150mm centers in order to achieve an average density of 4.6 fixings per m<sup>2</sup>.

Refer to Structural Engineers Drawing No. KXC-M0-001-ARP219870-S-(W)60075 for supporting detail.



**3 Rainscreen Eaves Section Detail E00 - EC**  
 1 : 5



**Key Roof Membrane**

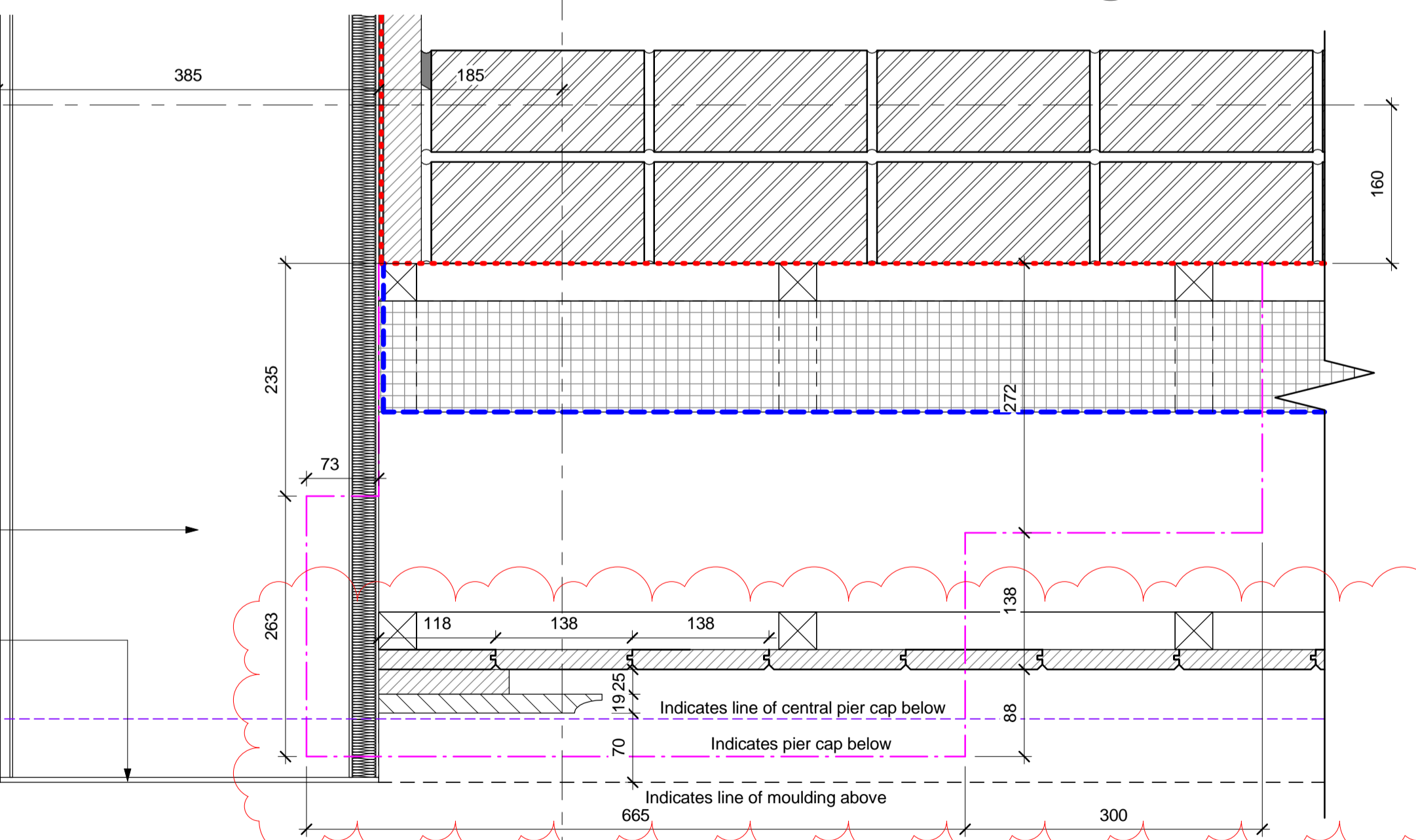
--- Tyvek supra

..... Dupont Airguard -VCL

**6 Timber Bargeboard**  
 1 : 2

**TYPE 2 GUTTER**  
 Profile Gutter Copper tone medium bronze (5903E81872F3F) IGP PPC. To be restrained by bracket at 600mm ctrs screwed and fixed back to timber frame. Size of gutter to be compliant with PH design. 100mm dia rainwater downpipe in brick recess of corbel.

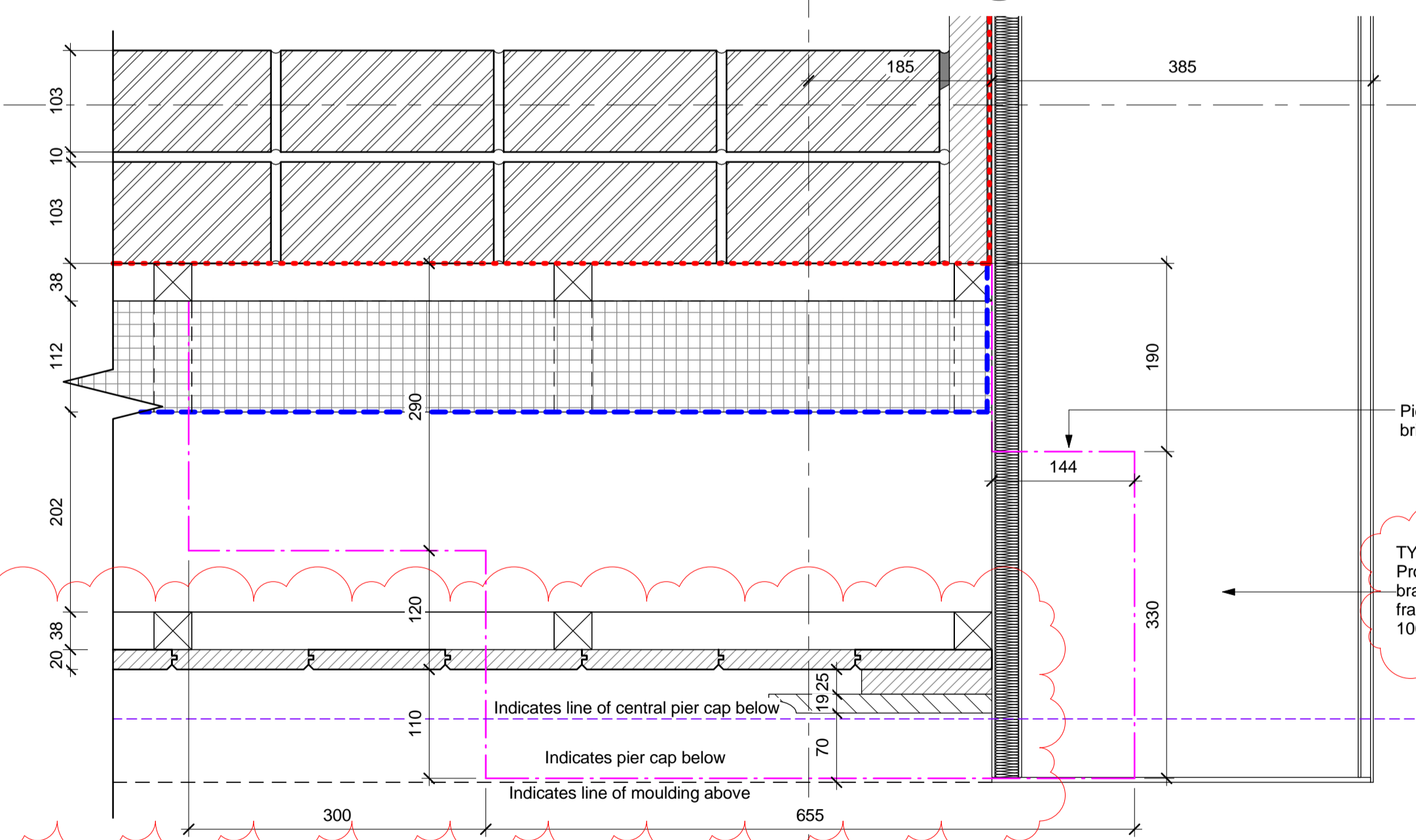
Gutter end cap. Material to match gutter



**4 Gable Jamb Plan Detail EA**  
 1 : 5

**TYPE 4 GUTTER**  
 Profile Gutter PPC RAL 7021. To be restrained by bracket at 600mm ctrs screwed and fixed back to timber frame. Size of gutter to be compliant with PH design. 100mm dia rainwater downpipe in brick recess of corbel.

Pier cap below to be reduced by 1 course of brickwork and reinstated to a level of 31.059.



**5 Gable Jamb Plan Detail EC**  
 1 : 5

**Status Code (as defined in BS1192)**  
 D3 - Issued for contractor design  
 D4 - Issued for manufacture/procurement

**Work In Progress (WIP)**  
 S0 - Initial Status or WIP

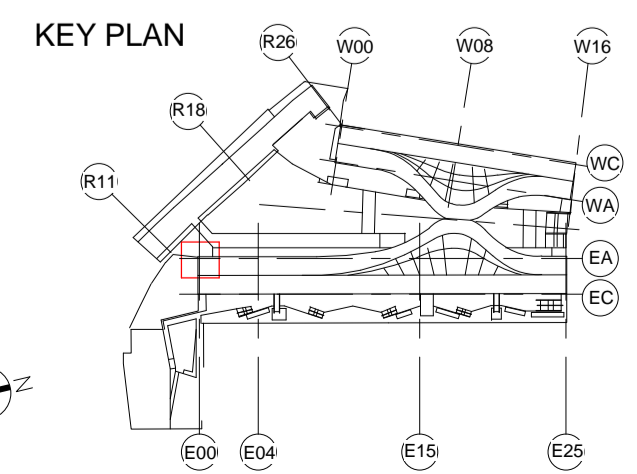
**Shared**  
 S1 - Issued for co-ordination  
 S2 - Issued for information  
 S3 - Issued for internal review  
 S4 - Issued for construction approval

**Documentation (Pre-construction)**  
 D1 - Issued for costing  
 D2 - Issued for tender

**Documentation (Contractual)**  
 A - Issued for construction  
 B - Issued for construction but with comments  
 C - Comprehensive revision required

**Archive**  
 AB - Record Drawing

no	by	chkd	date	description
007	HR	DW	13.06.17	Kebony cladding size amended, gutter end cap profile and type updated, tile edge profile amended.
006	HR	DW	31.05.17	Insulation & breather membrane position amended to plan details
005	HR	DW	25.05.17	Gable / gutter line amended. Gutter, ridge and tile caps added. Insulation reduced to 150mm.
004	HR	DW	18.05.17	Gable ladder, batten layout & weather lines updated
003	CM	IAW	09.12.16	Omit lead verge detail & include T&G boarding
002	VH	MWB	08.06.16	updated to suit comments dated 20.06.16
001	VH	MWB	17.06.16	Construction issue



**bam**  
 BAM Design Ltd  
 An operating company of  
 BAM Construct UK Ltd

Architecture  
 Interior Design  
 3D Visualisation  
 Feasibility Studies  
 Structural Engineering  
 Environmental Services  
 Building Information Modelling

Centrium Business Park  
 Griffiths Way, St Albans  
 Hemel Hempstead, AL1 2RD  
 01727 894200  
 design@bam.co.uk  
 www.bam.co.uk

project **COAL DROPS YARD**

001 **ECD Gable End South**

purpose of issue **CONSTRUCTION**

scale **As indicated @ A1** draw **DGW** BAM job no. **4389** dfg status **S4**

date **06/17/16** checked **MWB** rev **007**

site identification project Consultant Role **CKSFB** Content

design@bam.co.uk **KXC-M2- 001-BD4389-A-21-4308**