

General Notes:

All drawings to be read in conjunction with architects and engineers drawings.

Do not scale this drawing - If in doubt contact the technical office.

All dimensions & levels to be confirmed prior to commencement of on-site installation and ordering of materials.

The SFS installation must be carried out using Ash & Lacy components and fixings, any substitution of Ash & Lacy products will result in invalidation of the warranty.

Drawings will be issued for construction once approved, do not proceed with construction until this drawing clearly states "CONSTRUCTION ISSUE".

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GENERAL STUDS - AC.100.070.150
STUDS @ 0.6m CNTRS
BASE TRACK - AU.104.070.200
HEAD TRACK - AU.104.070.200

GENERAL STUDS - AC.100.070.120
STUDS @ 0.6m CNTRS
BASE TRACK - AU.104.070.200
HEAD TRACK - AU.104.070.200

ROOF JOISTS
STUDS @ 0.4m CNTRS
END TRACK - AU.104.070.200

FLOOR STUDS - AC.150.070.200
STUDS @ 0.4m CNTRS
END TRACK - AU.154.070.200

ROOF DEAD LOAD = 0.80 kN/m²
ROOF IMPOSED LOAD = 0.75 kN/m²
FLOOR DEAD LOAD = 1.20 kN/m²
FLOOR IMPOSED LOAD = 3.00 kN/m²

NOTES:
-ALL JOISTS MUST LAND ON A STUD
-NO LOADS FROM STRUCTURAL STAIRCASE ALLOWED ONTO SFS FRAMEWORK
-ALL BASE / HEAD / JOIST TRACKS TO BE UNBROKEN OVER OPENINGS
-JOISTS STABILITY AND RESTRAINT TO BE PROVIDED BY MINIMUM 18MM OSB3 FIXED DIRECTLY TO THE SFS FLANGES

P03	DRAWING REVISED:	AC	SC	03.04.20
P02	DRAWING REVISED:	LGS	SC	30.03.20
P01	FIRST ISSUE	LGS	SC	23.03.20

Rev	Description	Drawn	Checked	Date
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Drawing Status:
APPROVAL



BROMFORD LANE WEST BROMWICH WEST
MIDLANDS B70 7JJ TEL: 0121 525 1444 OPTION:6
FAX: 0121 525 3444 WWW.ASHANDLACY.COM

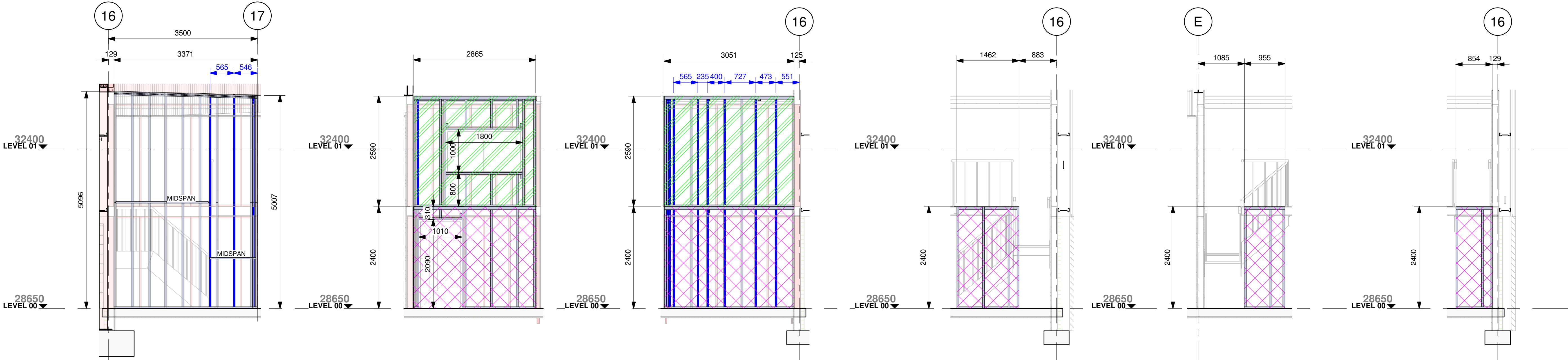
Client :
CALEDONIAN MODULAR

Project : SP27295
HAYGROVE SCHOOL, SPORTS HALL

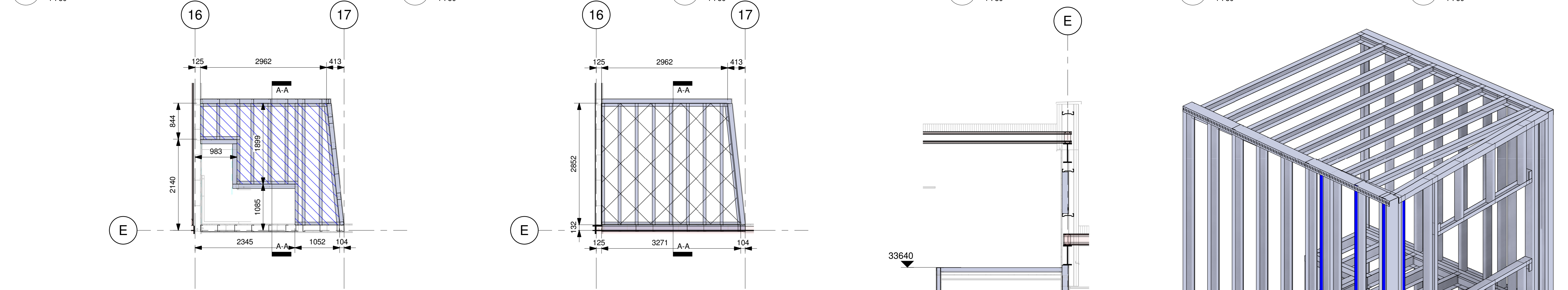
Drawing Title :
INTERNAL SFS ELEVATIONS / PLANS

Drawn By: LGS
Checked By: SC
Date: 03/19/20

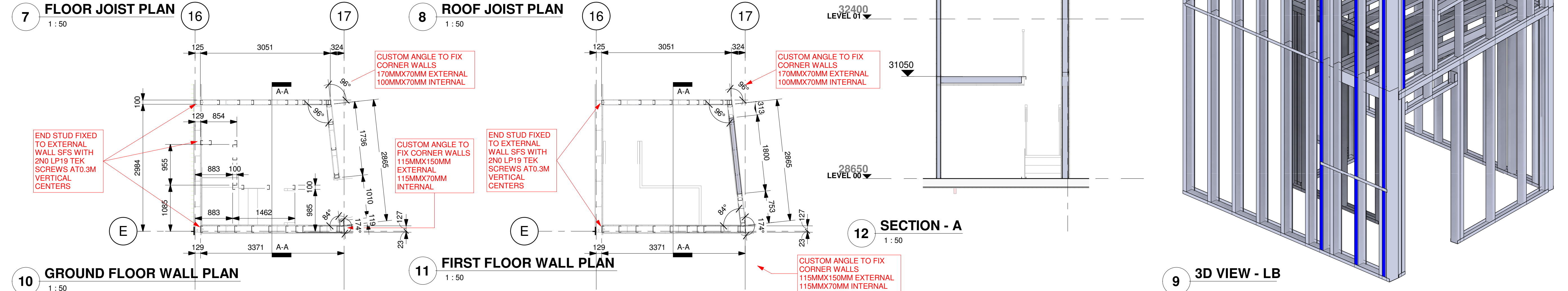
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Drawing No : 136917-ASH-ZZ-XX-DR-X-20-0005
Rev: P03



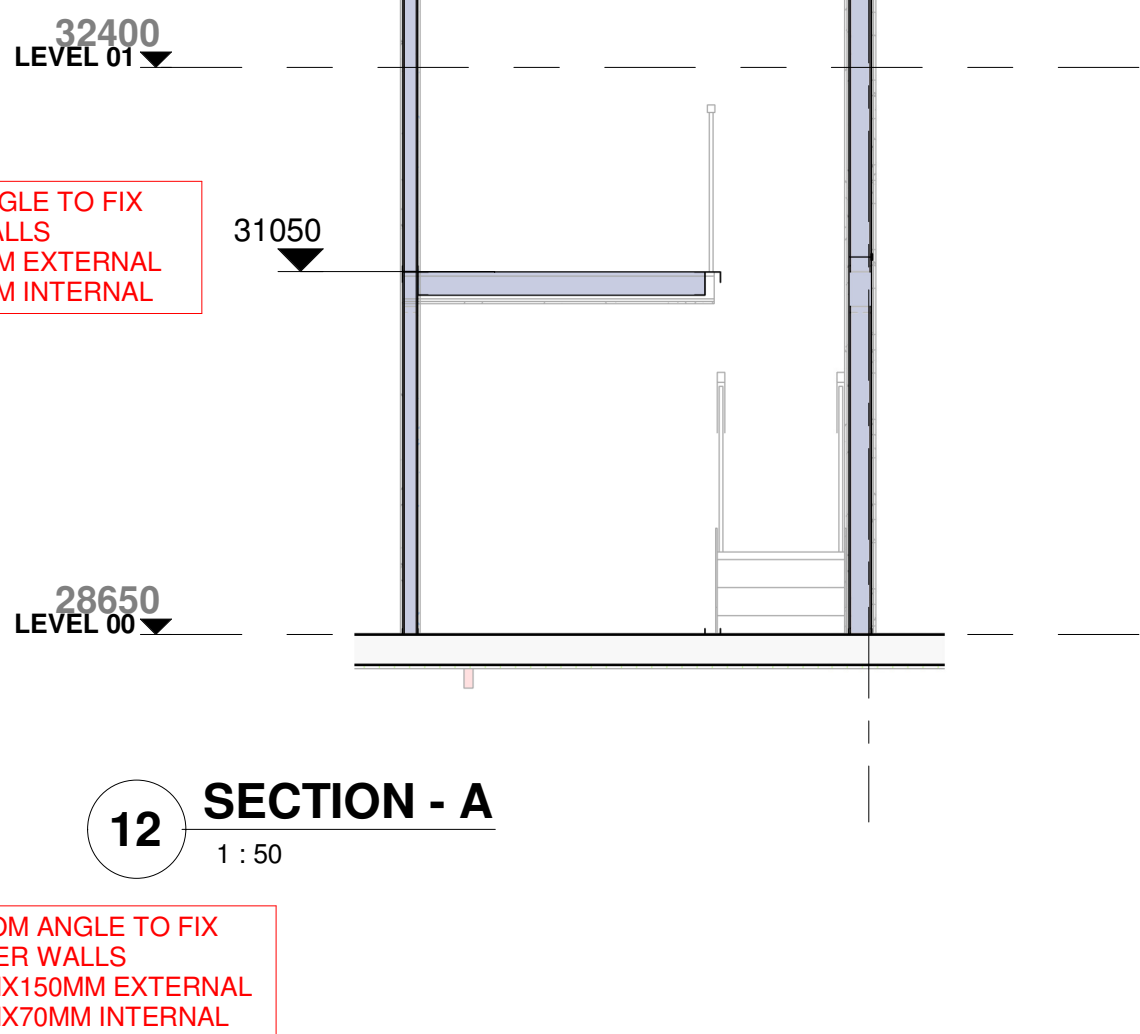
1 ELEVATION - 7 1 : 50
2 ELEVATION - 8 1 : 50
3 ELEVATION - 9 1 : 50
4 ELEVATION - 10 1 : 50
5 ELEVATION - 11 1 : 50
6 ELEVATION - 12 1 : 50



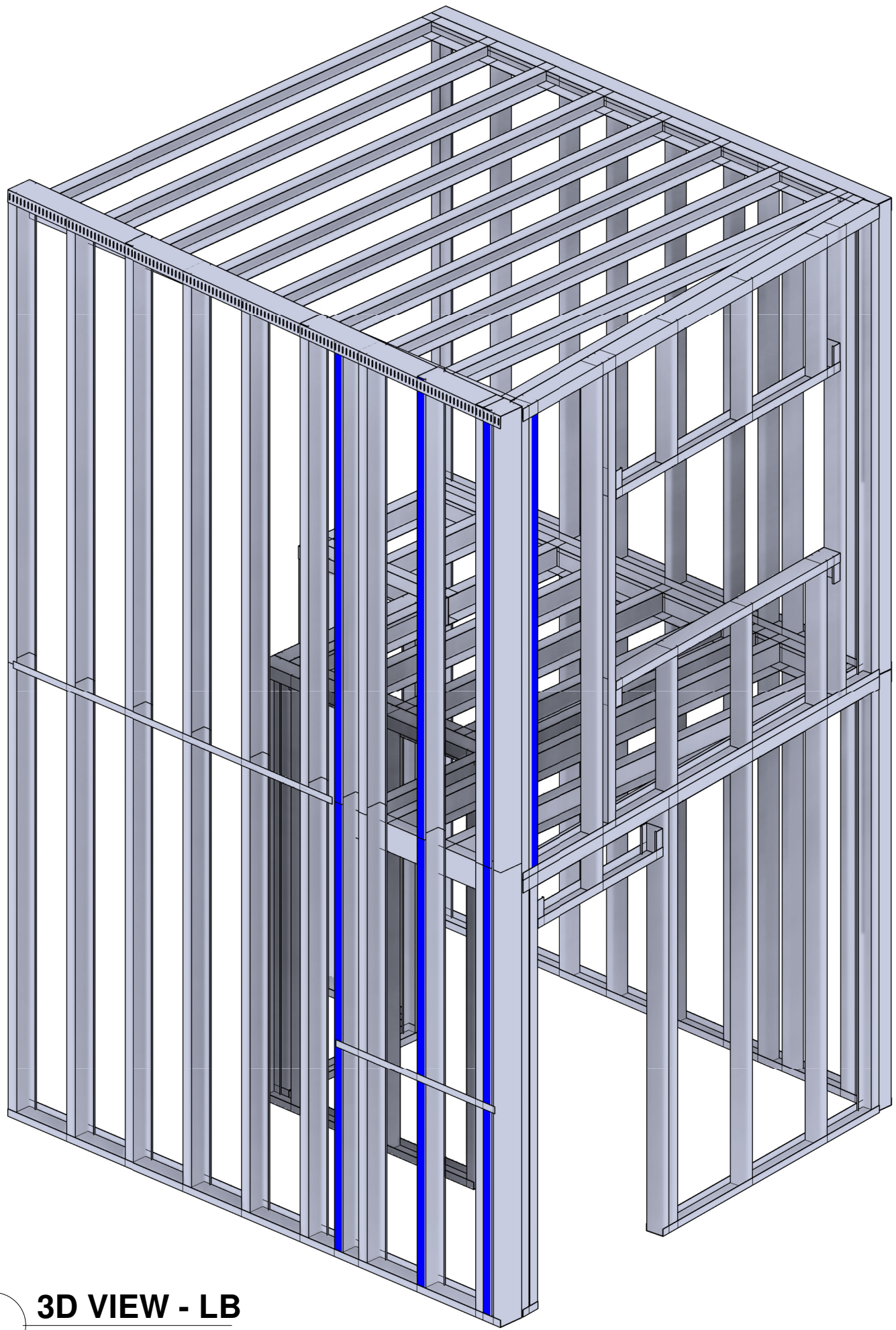
7 FLOOR JOIST PLAN 1 : 50
8 ROOF JOIST PLAN 1 : 50



10 GROUND FLOOR WALL PLAN 1 : 50
11 FIRST FLOOR WALL PLAN 1 : 50



12 SECTION - A 1 : 50



9 3D VIEW - LB

WIND LOADINGS
WIND LOAD 0.65 kN/m²

DEAD LOADINGS
CLADDING 0.300 kN/m²
DEFLECTION RATIO SPAN/360
ALL LOADINGS SUBJECT TO CONFIRMATION
BY PROJECT STRUCTURAL ENGINEER

FRAMING SYSTEM SPECIFICATION
GENERAL STUD - AC.150.070.150 @ 400 CNTRS
BASE TRACK - AU.154.070.200
HEAD TRACK - AU.154.070.200

STUDS SPACED AT 400mm CNTRS UNLESS
STATED OTHERWISE ON DRAWING

STEEL FRAMING SYSTEM DESIGN NOTES - READ IN CONJUNCTION WITH STANDARD DETAILS

FIXING SPECIFICATION

FRAMING CONNECTION FIXINGS
ALL FRAMING CONNECTIONS TO BE MADE IN
ACCORDANCE WITH THE STANDARD DETAIL
USING LP19 SELF DRILLING TEK SCREWS

TRACK TO CONCRETE FIXINGS
FIXING OF TRACK(S) TO CONCRETE WITH 1NO.
MF57 ASHFIX CONCRETE ANCHOR @ 0.3M
CENTERS (2NO. @ JAMBS)

TRACK TO STEEL FIXING
FIXING OF TRACK(S) TO STEEL WITH 1NO.
HS38 ASHFIX SELF DRILLING TEK SCREWS
@ EACH GENERAL STUD (2NO. @ JAMBS)

OPENING CONSTRUCTION

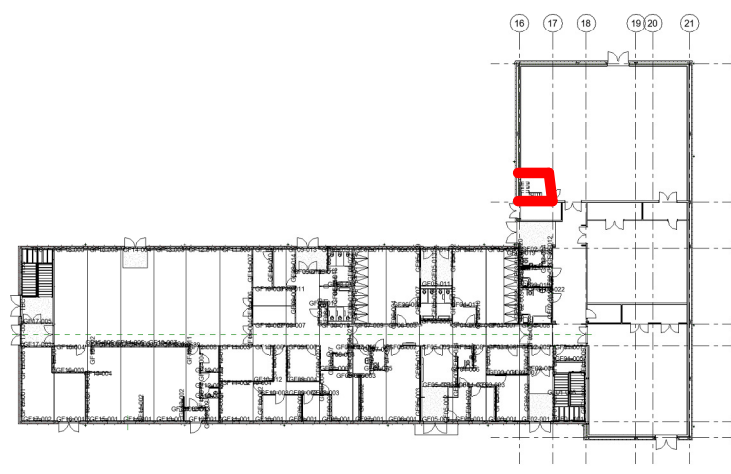
UNMARKED OPENINGS

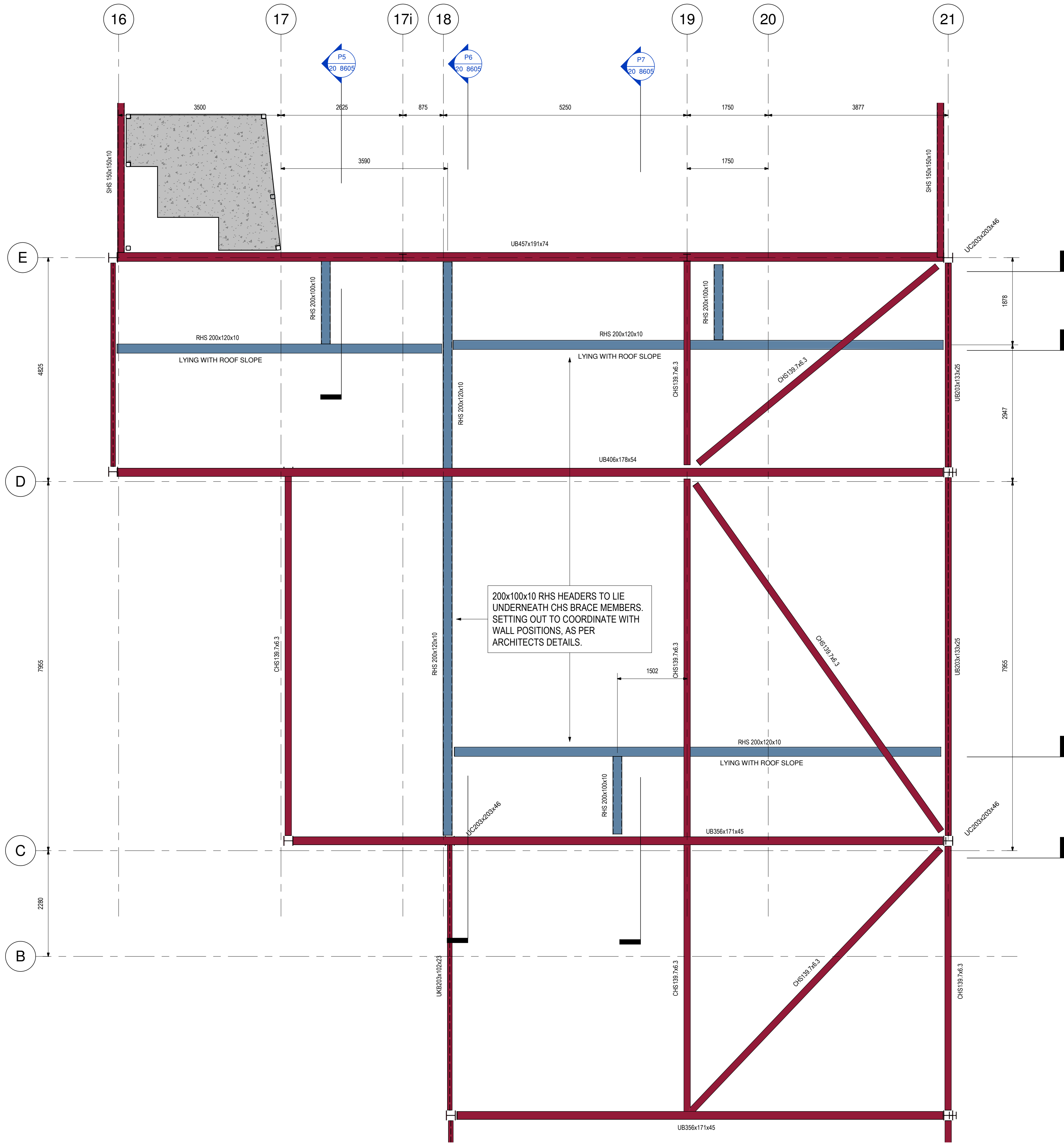
JAMBS - AC.100.070.150+AU.104.070.200+FULL HEIGHT CRIPPLE STUDS
LINTEL - AU.104.070.200
CILL - AU.104.070.200

ADDITIONAL INFORMATION

- FULL HEIGHT GLAZING, NO LOADS TRANSFERRED TO SFS
- TIMBER PACKER BY OTHERS
- DENOTES BRICK TIE STUD SET 150MM FROM JAMB STUD
- ADDITIONAL STUDS
- MOVEMENT JOINT

LOCATION PLAN





HEALTH AND SAFETY

THIS DRAWING IS ISSUED FOR INCLUSION IN THE PROJECT HEALTH AND SAFETY FILE AND THE INFORMATION INDICATED IS TO THE BEST OF OUR KNOWLEDGE REPRESENTATIVE OF THE CONSTRUCTED WORKS. ALAN WOOD AND PARTNERS HAVE NOT CARRIED OUT FULL SITE SUPERVISION OF THE PROJECT DURING CONSTRUCTION. THE CONTRACTOR IS DEEMED TO HAVE INSTALLED THE WORKS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS UNLESS NOTED OTHERWISE ON THIS DRAWING OR CONFIRMED SEPERATELY BY THE CONTRACTOR IN WRITING

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3. Do not scale directly from drawing - if in doubt ask!

NOTES:

STRUCTURAL STEELWORK

- S01. It is the responsibility of the steelwork fabricator to obtain any necessary site dimensions required and to prepare connection design calculations for submission to the local authority for Building Regulation Approval.
- S02. All steelwork to be grade S355
- S03. Steelwork to be in accordance with BS 5950-1:2000, Table 4 and 5.
- S04. Steelwork to be shot blasted to Sa2.5 and painted with a shop applied 75 microns dry film thickness of quick drying zinc phosphate and a site applied 75 microns dry film thickness of alloyd or modified micaeous iron oxide (B.S. Ref. FU2C) total system dry film thickness of 150 microns. All steelwork to be post galvanised to the requirements of B.S.729 with a minimum thickness of ... microns.
- S05. Steelwork built into cavities to be given additional 2no site coats of bituminous paint.
- S06. Steelwork connections and baseplates to be designed by the fabricator to sustain the factored loads given on the drawings.
- S07. After erection on site all damaged areas to be manually cleaned back to a sound surface and repainted with a primer and other coats as noted above or an equivalent approved by the Engineer. In the case of galvanising the steel is to be painted with an appropriate number of coats of zinc rich paint to give the equivalent specified thickness.
- S08. Concrete encased steelwork to be left untreated.
- S09. See steelwork fabricators drawings for details and positions of holding down bolts.
- S10. Roof and side cladding (type as specified by architect) to be provided with all necessary flashings, filler pieces etc. and to be fixed strictly in accordance with the manufacturers instructions.
- S11. Purlins and rails to be installed in accordance manufacturers recommendations.
- S12. Principles of steel member setting out are as follows:
Columns and beams to be centred on grid UNO.
Intermediate beams to be positioned centrally between beams UNO.
Slab edge 150mm off beam centreline UNO.

HS01	Health and safety issue	14.08.20	KR	MC
C01	Revised For Construction	10.09.19	ND	KR
P02	Partition header steels changed to 200x120x10 RHS where shown.	07.08.19	GW	KR
P01	First Issue	12.07.19	GW	KR

REV	REASON FOR REVISION	DATE	BY	CHK
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CLIENT:
Caledonian

PROJECT REF:
Haygrove School

DESCRIPTION:
Plan on Partition Steel

DOCUMENT REFERENCE No:

136917	AWP	MB	ZZ	DR	S	20	7303
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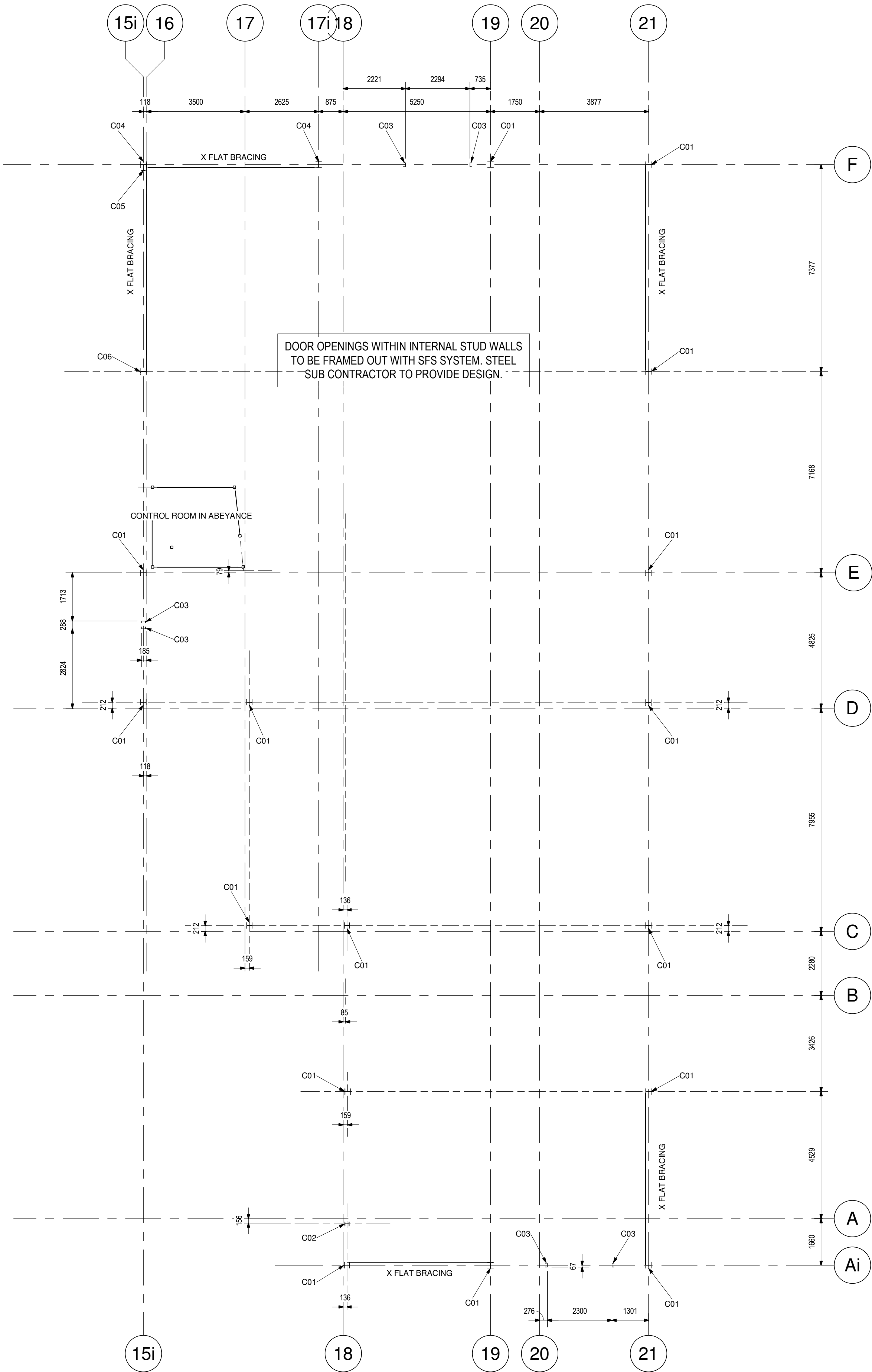
Ref	Orig	Zone	Level	Type	Role	Element	Chrono No.
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SCALE @ A1: As indicated	REV: HS01
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CONTRACT NUMBER: 136917	DATE: Issue Date
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INFORMATION STATUS: FINAL ISSUE

SUBCONTRACTOR COMPANY TRADE NAME	SUBCONTRACTOR CONTRACT REF. No
Alan Wood & Partners	41636



GF Columns
Scale:- 1 : 100

HEALTH AND SAFETY

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Steel Column Reference	
Column ref	Size
C01	UC203x203x46
C02	UC152x152x30
C03	PFC150x75x18
C04	UC203x203x60
C05	UB203x133x30
C06	UC203x203x86
C08	SHS100x100x10

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NOTES:

HS01	Health and safety issue	14.08.20	KR	MC
C01	Revised For Construction	10.09.19	ND	KR
P02	Columns repositioned as shown.Internal door posts removed, see note.	13.06.19	GW	KR
P01	First Issue	09.05.19	GW	MC

REV	REASON FOR REVISION	DATE	BY	CHK
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CLIENT:

Caledonian

PROJECT REF:

Haygrove School

DESCRIPTION:

Ground Floor Setting Out Plan - Traditional Build

DOCUMENT REFERENCE No:

136917	AWP	MB	ZZ	DR	S	20	8300
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Ref	Orig	Zone	Level	Type	Role	Element	Chrono No.
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SCALE @ A1: 1 : 100

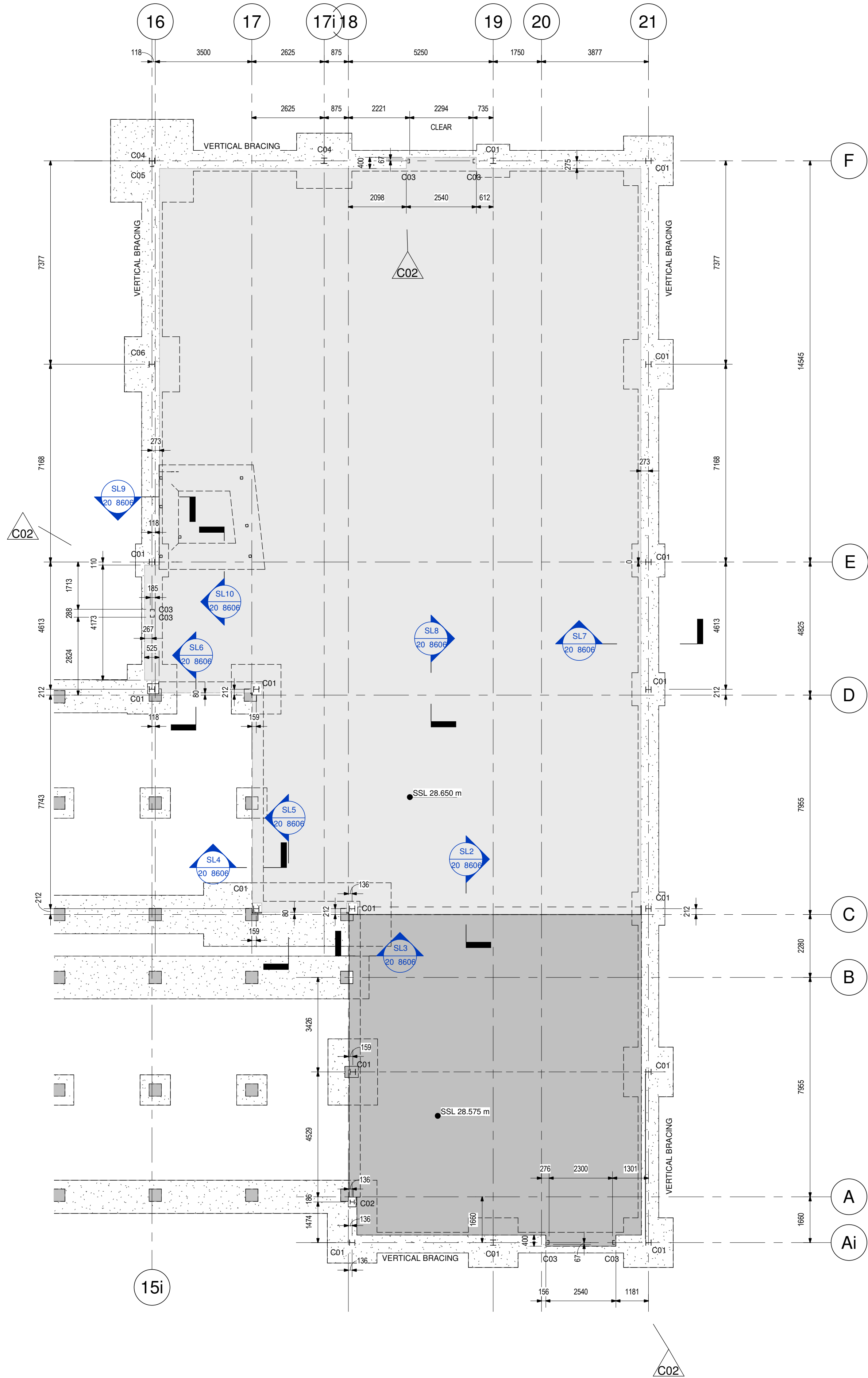
CONTRACT NUMBER: 136917

REVISION: HS01

DATE: Issue Date

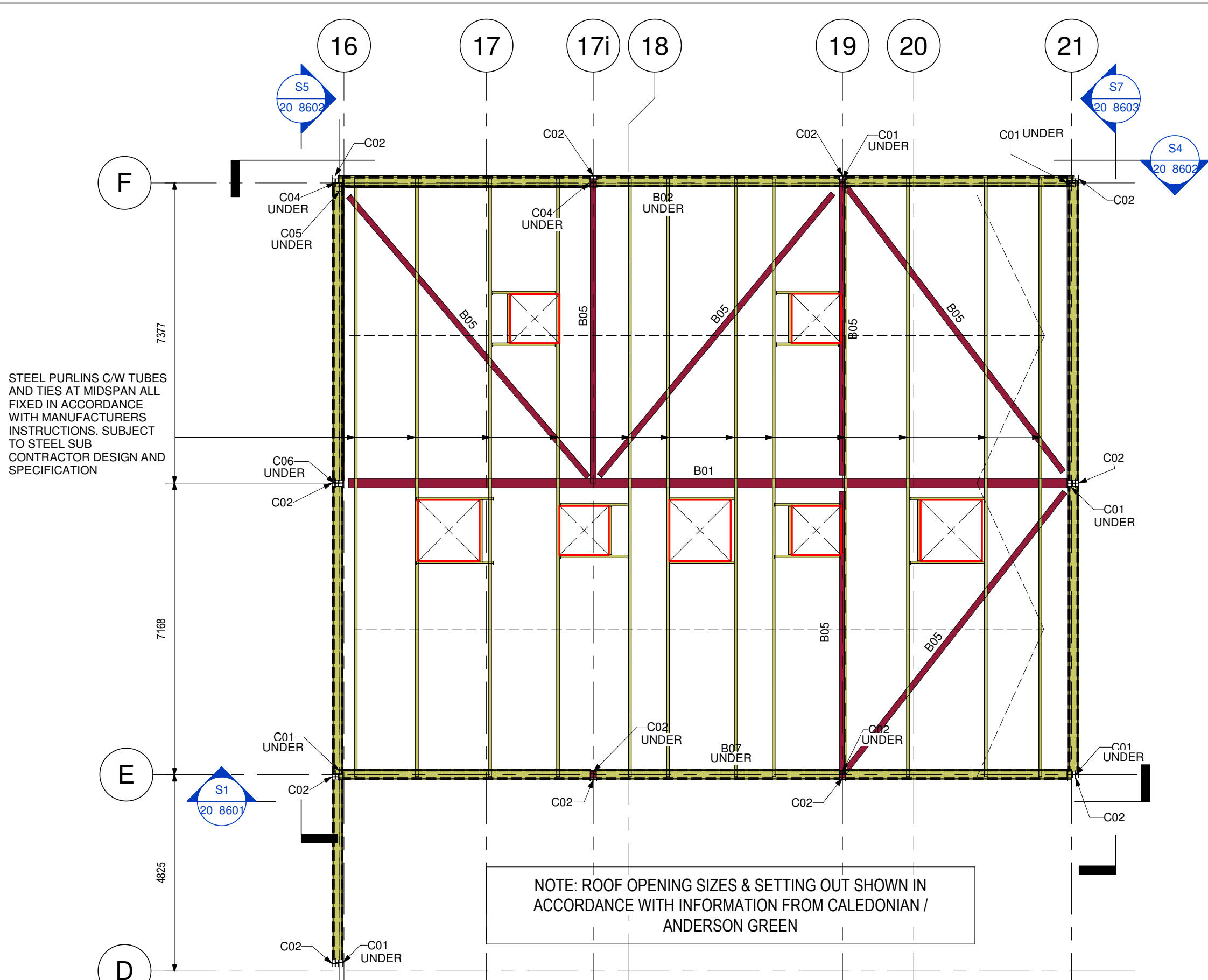
INFORMATION STATUS: FINAL ISSUE

SUBCONTRACTOR COMPANY TRADE NAME	SUBCONTRACTOR CONTRACT REF. No
Alan Wood & Partners	41636



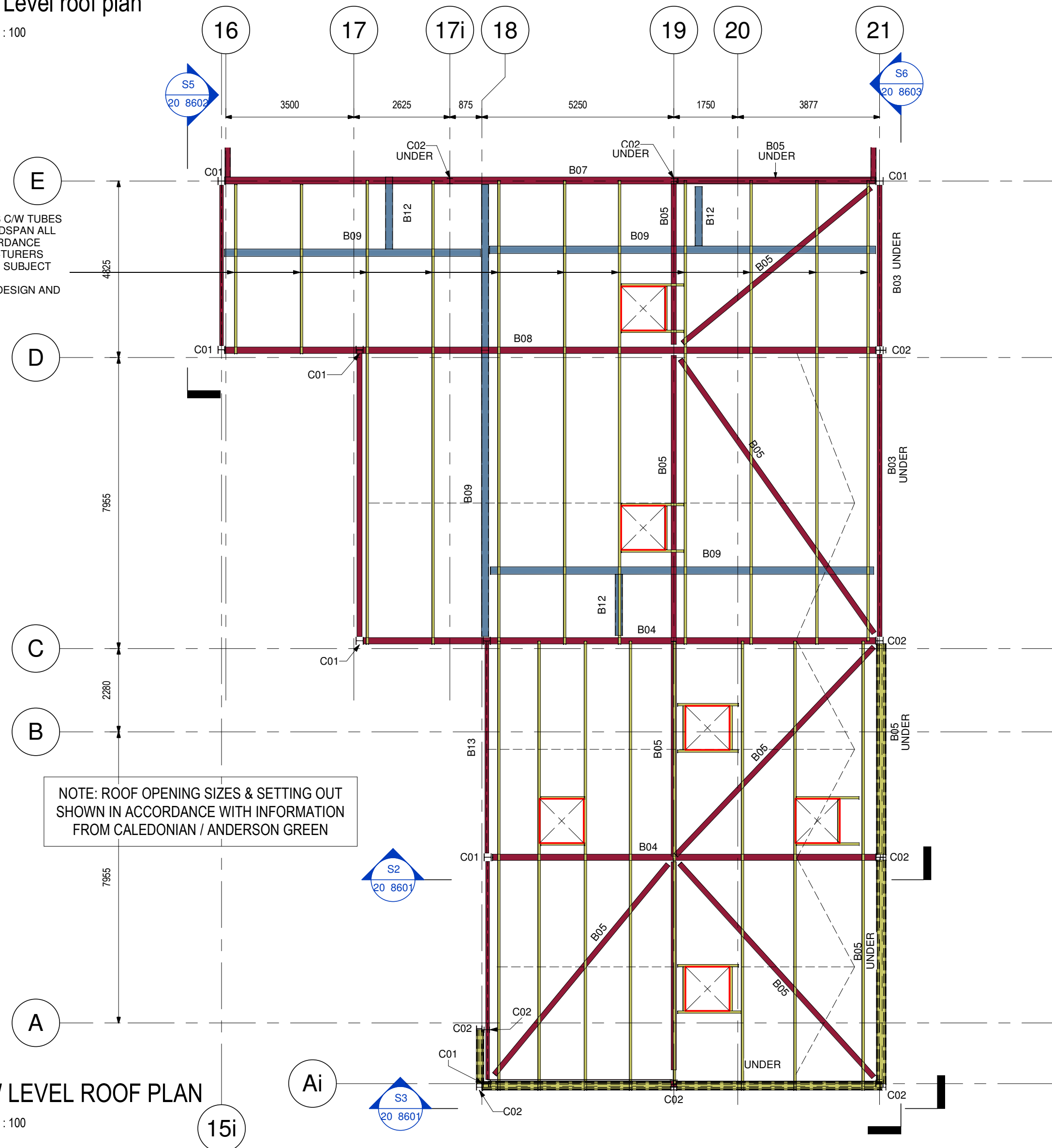
GF SSL TRADITIONAL SIDE

Scale:- 1:100



High Level roof plan

Scale:- 1:100



LOW LEVEL ROOF PLAN

Scale:- 1:100

HEALTH AND SAFETY

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- Do not scale directly from drawing - if in doubt ask!

NOTES:

Steel Beam Reference

Beam Ref	Size
B01	UB610x229x101
B02	UB254x146x31
B03	UB203x133x25
B04	UB356x171x45
B05	CHS139.7x6.3
B06	PFC150x90x24
B07	UB457x191x74
B08	UB406x178x54
B09	RHS 200x120x10
B10	80x10 FLAT
B11	SHS 150x150x10
B12	RHS 200x100x10
B13	UKB203x102x23
B14	80x6 FLAT
B15	PFC200x90x30
B16	PFC150x75x18

Steel Column Reference

Column ref	Size
C01	UC203x203x46
C02	UC152x152x30
C03	PFC150x75x18
C04	UC203x203x60
C05	UB203x133x30
C06	UC203x203x86
C08	SHS100x100x10

STRUCTURAL STEELWORK

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S02. All steelwork to be grade S355

S03. Steelwork to be in accordance with BS 5950-1:2000, Table 4 and 5.

S04. Steelwork to be shot blasted to Sa2.5 and painted with a shop applied 75 microns dry film thickness of quick drying zinc phosphate and a site applied 75 microns dry film thickness of alkyl or modified micaeous iron oxide (B.S. Ref. FU2C) total system dry film thickness of 150 microns. All steelwork to be post galvanised to the requirements of B.S.729 with a minimum thickness of ... microns.

S05. Steelwork built into cavities to be given additional 2no site coats of bituminous paint.

S06. Steelwork connections and baseplates to be designed by the fabricator to sustain the factored loads given on the drawings.

S07. After erection on site all damaged areas to be manually cleaned back to a sound surface and repainted with a primer and other coats as noted above or an equivalent approved by the Engineer. In the case of galvanising the steel is to be painted with an appropriate number of coats of zinc rich paint to give the equivalent specified thickness.

S08. Concrete encased steelwork to be left untreated.

S09. See steelwork fabricators drawings for details and positions of holding down bolts.

S10. Roof and side cladding (type as specified by architect) to be provided with all necessary flashings, filler pieces etc. and to be fixed strictly in accordance with the manufacturers instructions.

S11. Purlins and rails to be installed in accordance manufacturers recommendations.

S12. Principles of steel member setting out are as follows:
Columns and beams to be centred on grid UNO.
Intermediate beams to be positioned centrally between beams UNO.
Slab edge 150mm off beam centreline UNO.

HS01	Health and safety issue	14.08.20	KR	MC
C02	Floor Slab extended out at Door Thresholds	10.01.20	GW	KR
C01	Revised for Construction	20.09.19	ND	KR
P010	Partition header references shown	07.08.19	GW	KR
P09	Rail positions adjusted	23.07.19	SW	KR
P08	Rails added to parapet, PFC block restraint removed	17.07.19	SW	KR
P07	Roof opening moved to avoid roof force	12.07.19	GW	KR
P06	Dimensions to edge of slab amended. Beam ref B11 added.	13.06.19	GW	KR
P05	Revised to suit HLM comments	09.05.19	GW	KR
P04	Revised to suit Caledonian comments	08.03.19	KR	MC
P03	Revised for final CP issue	06.03.19	GW	MC
P02	roof pitch altered to 1.5 degrees, Parapet added	12.12.18	SW	MC
P01	First Issue	31.10.18	SW	MC

REV	REASON FOR REVISION	DATE	BY	CHK
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CLIENT:

Caledonian

PROJECT REF:

Haygrove School

DESCRIPTION:

GROUND AND ROOF STEELWORK LAYOUTS

DOCUMENT REFERENCE No:

136917	AWP	MB	ZZ	DR	S	20	8301
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Ref	Orig	Zone	Level	Type	Role	Element	Chrono No.
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SCALE @ A1: As indicated

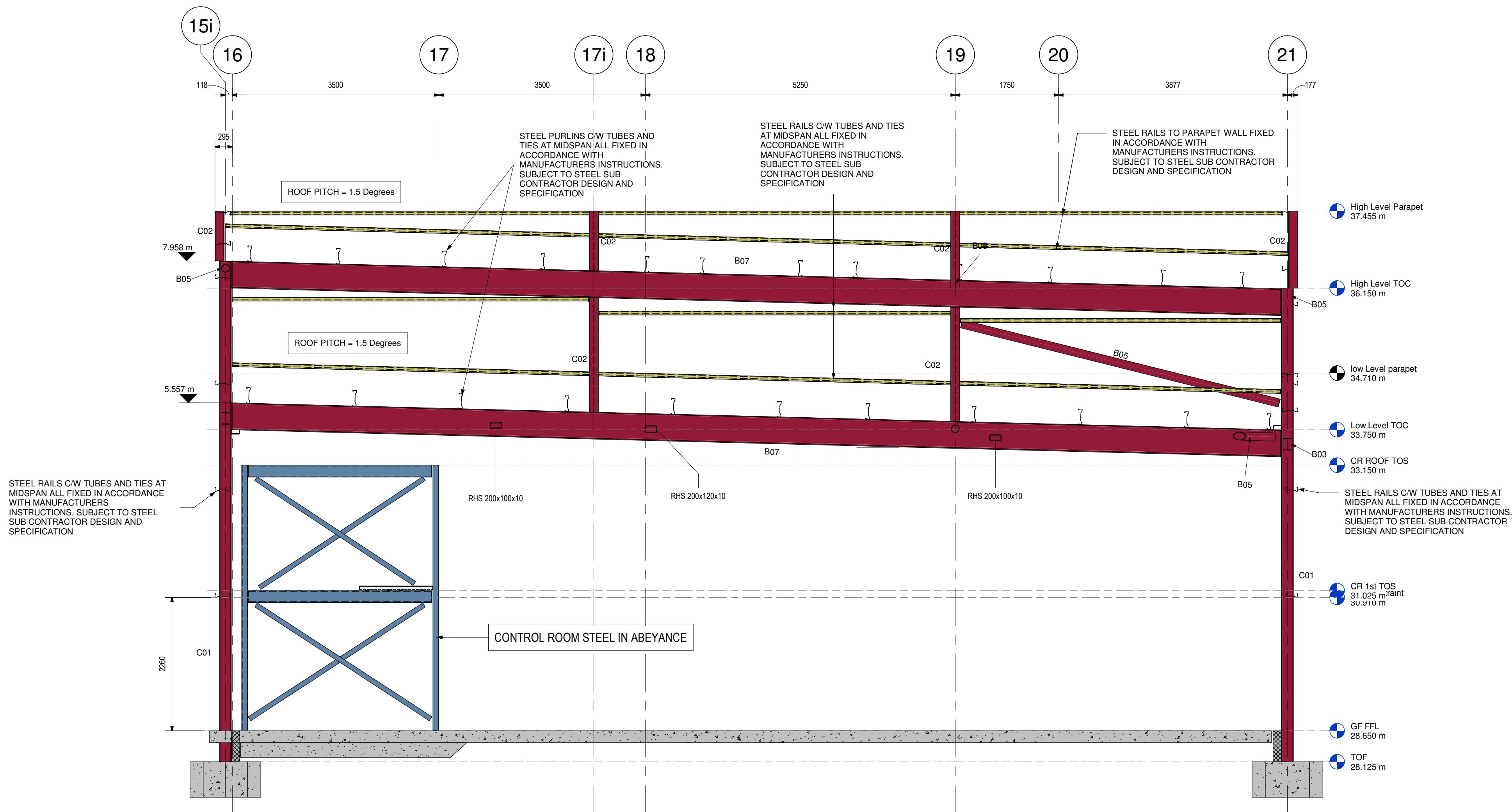
CONTRACT NUMBER: 136917

INFORMATION STATUS: FINAL ISSUE

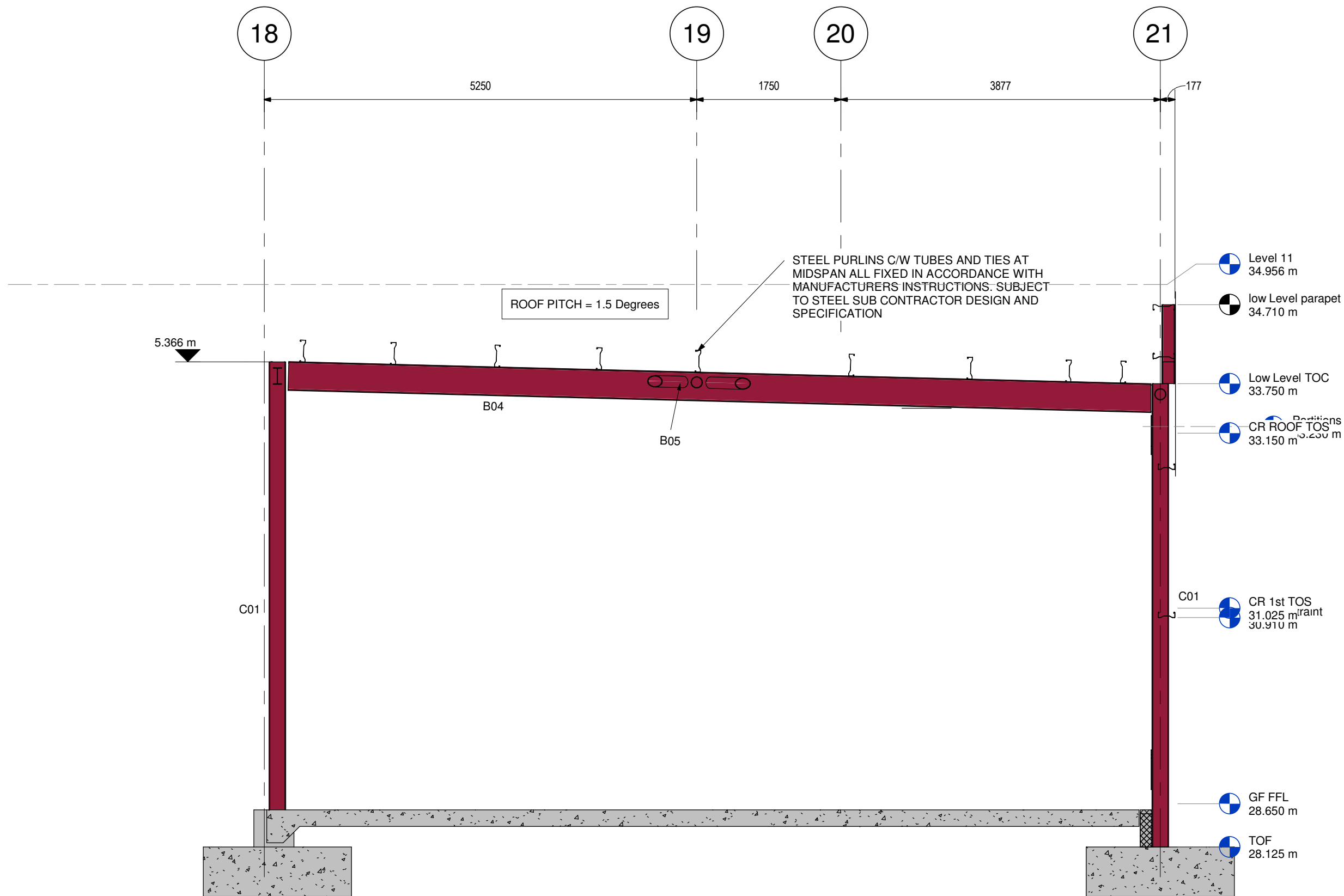
SUBCONTRACTOR COMPANY TRADE NAME

SUBCONTRACTOR CONTRACT REF. No

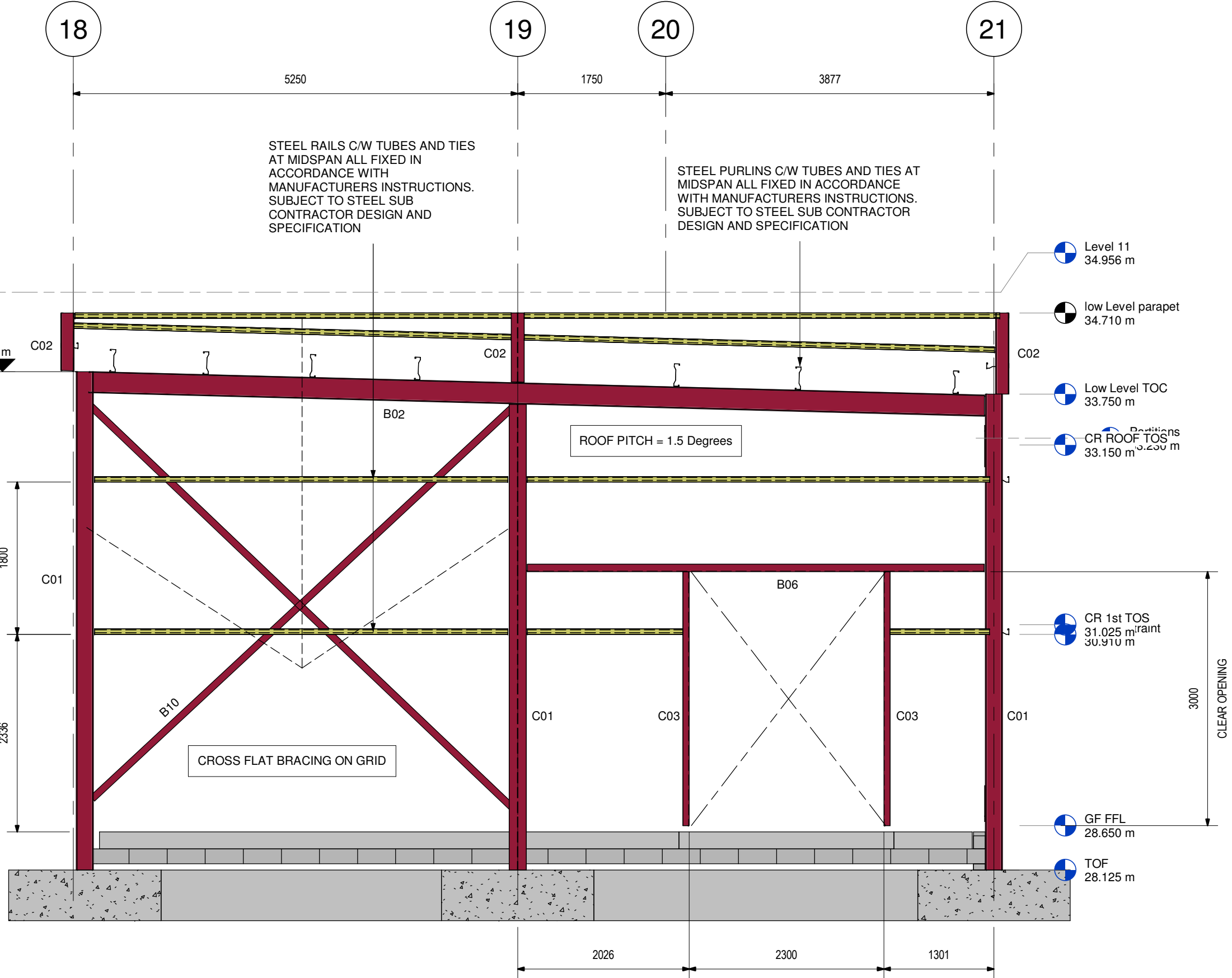
41636



S1
Scale:- 1 : 50



S2
Scale:- 1 : 50



S3
Scale:- 1 : 50

HEALTH AND SAFETY

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- S05. Steelwork built into cavities to be given additional 2no site coats of bituminous paint.
- S06. Steelwork connections and baseplates to be designed by the fabricator to sustain the factored loads given on the drawings.
- S07. After erection on site all damaged areas to be manually cleaned back to a sound surface and repainted with a primer and other coats as noted above or an equivalent approved by the Engineer. In the case of galvanising the steel is to be painted with an appropriate number of coats of zinc rich paint to give the equivalent specified thickness.
- S08. Concrete encased steelwork to be left untreated.
- S09. See steelwork fabricators drawings for details and positions of holding down bolts.
- S10. Roof and side cladding (type as specified by architect) to be provided with all necessary flashings, filler pieces etc. and to be fixed strictly in accordance with the manufacturers instructions.
- S11. Purlins and rails to be installed in accordance manufacturers recommendations.
- S12. Principles of steel member setting out are as follows:
Columns and beams to be centred on grid UNO.
Intermediate beams to be positioned centrally between beams UNO.
Slab edge 150mm off beam centreline UNO.

Steel Beam Reference	
Beam Ref	Size
B01	UB610x229x101
B02	UB254x146x31
B03	UB203x133x25
B04	UB356x171x45
B05	CHS139.7x6.3
B06	PFC150x90x24
B07	UB457x191x74
B08	UB406x178x54
B09	RHS 200x120x10
B10	80x10 FLAT
B11	SHS 150x150x10
B12	RHS 200x100x10
B13	UKB203x102x23
B14	80x6 FLAT
B15	PFC200x90x30
B16	PFC150x75x18

Steel Column Reference	
Column ref	Size
C01	UC203x203x46
C02	UC152x152x30
C03	PFC150x75x18
C04	UC203x203x60
C05	UB203x133x30
C06	UC203x203x86
C08	SHS100x100x10

HS01	Health and safety issue	14.08.20	KR	MC
C02	High Level Parapet Level Amended	13.09.19	KR	MC
C01	Revised for Construction	10.09.19	ND	KR
P08	Rails added to parapet, PFC block restraint removed	17.07.19	SW	KR
P07	Partition header steel added	12.07.19	GW	KR
P06	Underside level to PFC masonry restraint amended. Cross brace note added. Dimension added to bottom sheeting rail. Beam Ref B13 added.	13.06.19	GW	KR
P05	Revised to suit HLM comments	09.05.19	GW	KR
P04	Revised to suit Caledonian comments	08.03.19	KR	MC
P03	Revised for final CP issue	06.03.19	GW	MC
P02	Roof pitch altered to 1.5 degrees, Parapet added	12.12.18	SW	MC
P01	First Issue	31.10.18	SW	MC

REV	REASON FOR REVISION	DATE	BY	CHK
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CLIENT:
Caledonian

PROJECT REF:
Haygrove School

DESCRIPTION:
STEELWORK SECTIONS SHEET 1

DOCUMENT REFERENCE No:									
136917	AWP	MB	ZZ	DR	S	20	8601		

Ref	Orig	Zone	Level	Type	Role	Element	Chrono No.
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SCALE @ A1: As indicated

CONTRACT NUMBER: 136917

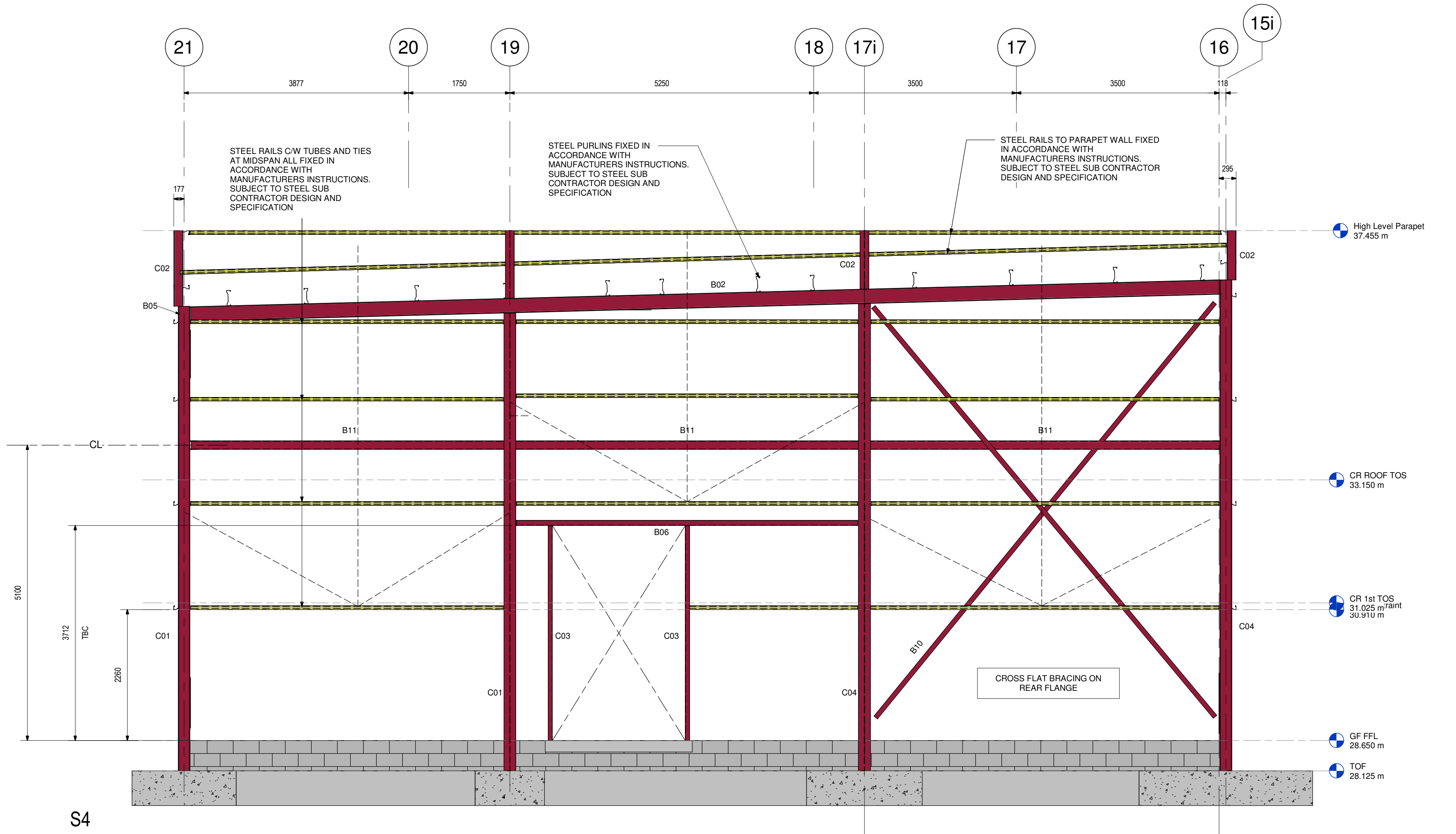
INFORMATION STATUS: FINAL ISSUE

SUBCONTRACTOR COMPANY TRADE NAME

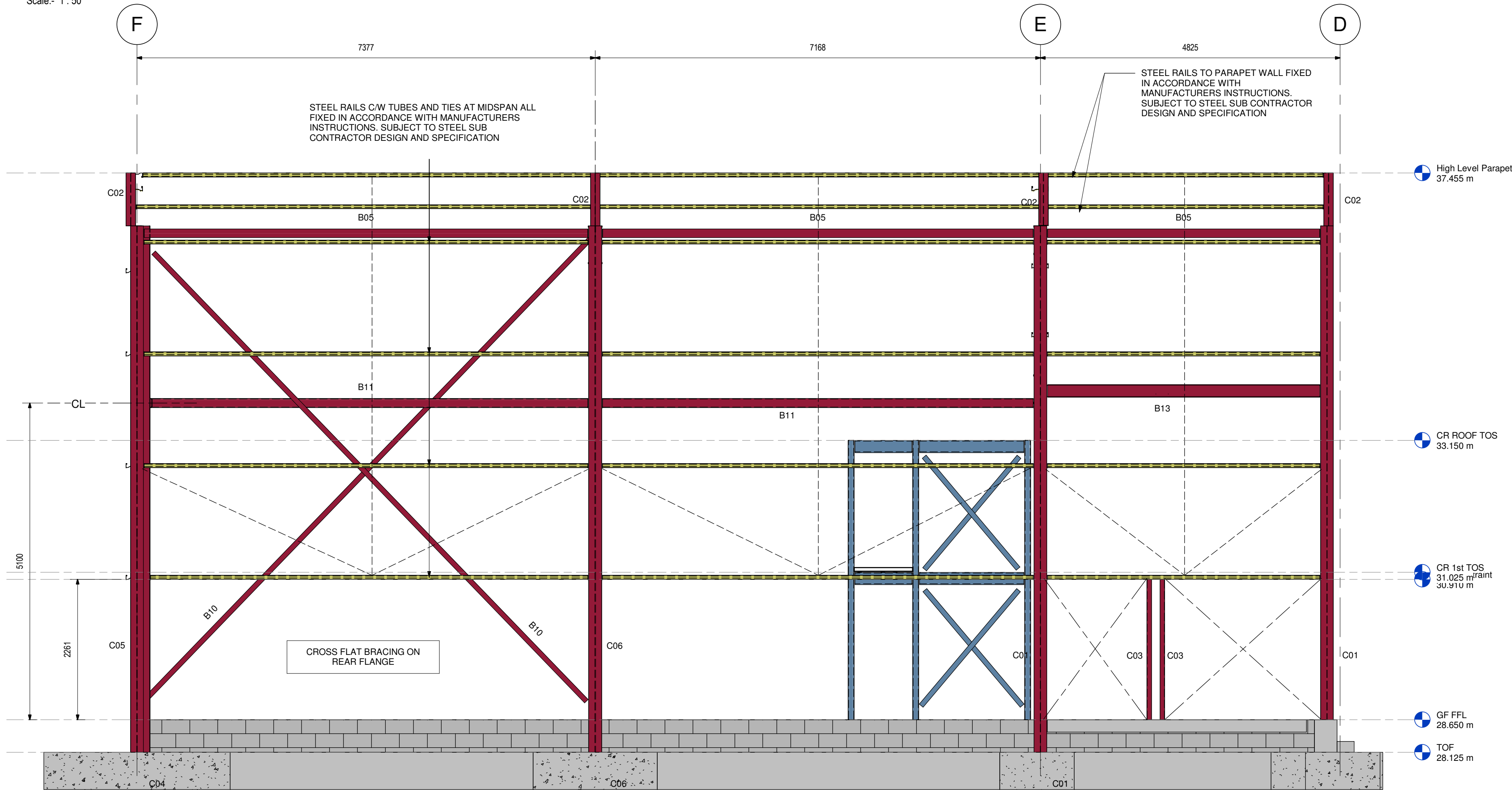


SUBCONTRACTOR CONTRACT REF. No

41636



S4
Scale:- 1 : 50



S5
Scale:- 1 : 50

HEALTH AND SAFETY

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NOTES:

STRUCTURAL STEELWORK

- S01. It is the responsibility of the steelwork fabricator to obtain any necessary site dimensions required and to prepare connection design calculations for submission to the local authority for Building Regulation Approval.
- S02. All steelwork to be grade S355
- S03. Steelwork to be in accordance with BS 5950-1:2000, Table 4 and 5.
- S04. Steelwork to be shot blasted to Sa2.5 and painted with a shop applied 75 microns dry film thickness of quick drying zinc phosphate and a site applied 75 microns dry film thickness of alkyd or modified micaeous iron oxide (B.S. Ref. FU2C) total system dry film thickness of 150 microns. All steelwork to be post galvanised to the requirements of B.S.729 with a minimum thickness of ... microns.
- S05. Steelwork built into cavities to be given additional 2no site coats of bituminous paint.
- S06. Steelwork connections and baseplates to be designed by the fabricator to sustain the factored loads given on the drawings.
- S07. After erection on site all damaged areas to be manually cleaned back to a sound surface and repainted with a primer and other coats as noted above or an equivalent approved by the Engineer. In the case of galvanising the steel is to be painted with an appropriate number of coats of zinc rich paint to give the equivalent specified thickness.
- S08. Concrete encased steelwork to be left untreated.
- S09. See steelwork fabricators drawings for details and positions of holding down bolts.
- S10. Roof and side cladding (type as specified by architect) to be provided with all necessary flashings, filler pieces etc. and to be fixed strictly in accordance with the manufacturers instructions.
- S11. Purlins and rails to be installed in accordance manufacturers recommendations.
- S12. Principles of steel member setting out are as follows:
Columns and beams to be centred on grid UNO.
Intermediate beams to be positioned centrally between beams UNO.
Slab edge 150mm off beam centreline UNO.

Steel Beam Reference

Beam Ref	Size
B01	UB610x229x101
B02	UB254x146x31
B03	UB203x133x25
B04	UB356x171x45
B05	CHS139.7x6.3
B06	PFC150x90x24
B07	UB457x191x74
B08	UB406x178x54
B09	RHS 200x120x10
B10	80x10 FLAT
B11	SHS 150x150x10
B12	RHS 200x100x10
B13	UKB203x102x23
B14	80x6 FLAT
B15	PFC200x90x30
B16	PFC150x75x18

Steel Column Reference

Column ref	Size
C01	UC203x203x46
C02	UC152x152x30
C03	PFC150x75x18
C04	UC203x203x60
C05	UB203x133x30
C06	UC203x203x46
C08	SHS100x100x10

HS01	Health and safety issue	14.08.20	KR	KIC
C02	High Level Parapet Level Amended	13.09.19	KR	MC
C01	Revised For Construction	10.09.19	ND	KR
P010	B11 rail section size changed to 150x10 SHS. All B11 rails now at 5100 to CL above ground floor level.	07.08.19	GW	KR
P09	Rail positions adjusted	23.07.19	SW	KR
P08	Rails added to parapet, PFC block restraint removed	17.07.19	SW	KR
P07	Cross Bracing arrangement amended. Beam B13 added.	12.07.19	GW	KR
P06	Underside level to PFC masonry restraint amended. Cross brace note added. Dimension added to bottom sheeting rail. Beam Ref B13 added.	13.06.19	GW	KR
P05	Revised to suit HLM comments	09.05.19	GW	KR
P04	Revised to suit Caledonian comments	08.03.19	KR	MC
P03	Revised for final CP issue	06.03.19	GW	MC
P02	roof pitch altered to 1.5 degrees, Parapet added	12.12.18	SW	KR
P01	First Issue	31.10.18	SW	KR
REV	REASON FOR REVISION	DATE	BY	CHK



CLIENT:
Caledonian

PROJECT REF:
Haygrove School

DESCRIPTION:
STEELWORK SECTIONS SHEET 2

DOCUMENT REFERENCE No:

136917	AWP	MB	ZZ	DR	S	20	8602
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Ref	Orig	Zone	Level	Type	Role	Element	Chrono No.
SCALE @ A1:	As indicated			REV:	HS01		
CONTRACT NUMBER:	136917			DATE:	Issue Date		

INFORMATION STATUS: **FINAL ISSUE**

SUBCONTRACTOR COMPANY TRADE NAME	SUBCONTRACTOR CONTRACT REF. No
	41636

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NOTES:

STRUCTURAL STEELWORK

- S01. It is the responsibility of the steelwork fabricator to obtain any necessary site dimensions required and to prepare connection design calculations for submission to the local authority for Building Regulation Approval.
- S02. All steelwork to be grade S355
- S03. Steelwork to be in accordance with BS 5950-1:2000, Table 4 and 5.
- S04. Steelwork to be shot blasted to Sa2.5 and painted with a shop applied 75 microns dry film thickness of quick drying zinc phosphate and a site applied 75 microns dry film thickness of alkyd or modified micaeous iron oxide (B.S. Ref. FUGC) total system dry film thickness of 150 microns. All steelwork to be post galvanised to the requirements of B.S.729 with a minimum thickness of ... microns.
- S05. Steelwork built into cavities to be given additional 2no site coats of bituminous paint.
- S06. Steelwork connections and baseplates to be designed by the fabricator to sustain the factored loads given on the drawings.
- S07. After erection on site all damaged areas to be manually cleaned back to a sound surface and repainted with a primer and other coats as noted above or an equivalent approved by the Engineer. In the case of galvanising the steel is to be painted with an appropriate number of coats of zinc rich paint to give the equivalent specified thickness.
- S08. Concrete encased steelwork to be left untreated.
- S09. See steelwork fabricators drawings for details and positions of holding down bolts.
- S10. Roof and side cladding (type as specified by architect) to be provided with all necessary fastenings, filler pieces etc. and to be fixed strictly in accordance with the manufacturers instructions.
- S11. Purline and rails to be installed in accordance manufacturers recommendations.
- S12. Principles of steel member setting out are as follows:
Columns and beams to be centred on grid UNO.
Intermediate beams to be positioned centrally between beams UNO.
Slab edge 150mm off beam centreline UNO.

Steel Beam Reference	
Beam Ref	Size
B01	UB610x229x101
B02	UB254x146x31
B03	UB203x133x25
B04	UB356x171x45
B05	CHS199.7x6.3
B06	PFC150x90x24
B07	UB457x191x74
B08	UB406x178x54
B09	RHS 200x120x10
B10	80x10 FLAT
B11	SHS 150x150x10
B12	RHS 200x100x10
B13	UKB203x102x23
B14	80x6 FLAT
B15	PFC200x90x30
B16	PFC150x75x18

Steel Column Reference	
Column ref	Size
C01	UC203x203x46
C02	UC152x152x30
C03	PFC150x75x18
C04	UC203x203x60
C05	UB203x133x30
C06	UC203x203x86
C08	SHS100x100x10

HSD01	Health and safety issue	14.08.20	KR	MC
CD2	High Level Parapet Level Amended	13.09.19	KR	MC
CD1	Revised For Construction	10.09.19	ND	KR
PD10	B11 rail section size changed to 150x10 SHS	07.08.19	GW	KR
PD9	Rail positions adjusted	23.07.19	SW	KR
PD8	Rails added to parapet, PFC block restraint removed	17.07.19	SW	KR
PD7	Cross bracing arrangement amended. Beam B12 added.	12.07.19	GW	KR
PD6	Underside level to PFC masonry restraint amended. Cross brace note added. Dimension added to bottom sheeting rail. Beam Ref B11 added.	13.06.19	GW	KR
PD5	Revised to suit HLM comments	09.05.19	GW	MC
PD4	Revised to suit Caledonian comments	08.03.19	KR	MC
PD3	Revised for final CP issue	06.03.19	GW	MC
PD2	roof pitch altered to 1.5 degrees, Parapet added	12.12.18	SW	MC
PD1	First Issue	31.10.18	SW	MC

REV	REASON FOR REVISION	DATE	BY	CHK
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CLIENT:

Caledonian

PROJECT REF:

Haygrove School

DESCRIPTION:

STEELWORK SECTIONS SHEET 3

DOCUMENT REFERENCE No:

136917	AWP	MB	ZZ	DR	S	20	8603
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Ref	Orig	Zone	Level	Type	Role	Element	Chrono No.
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SCALE @ A1: As indicated	REV: HS01
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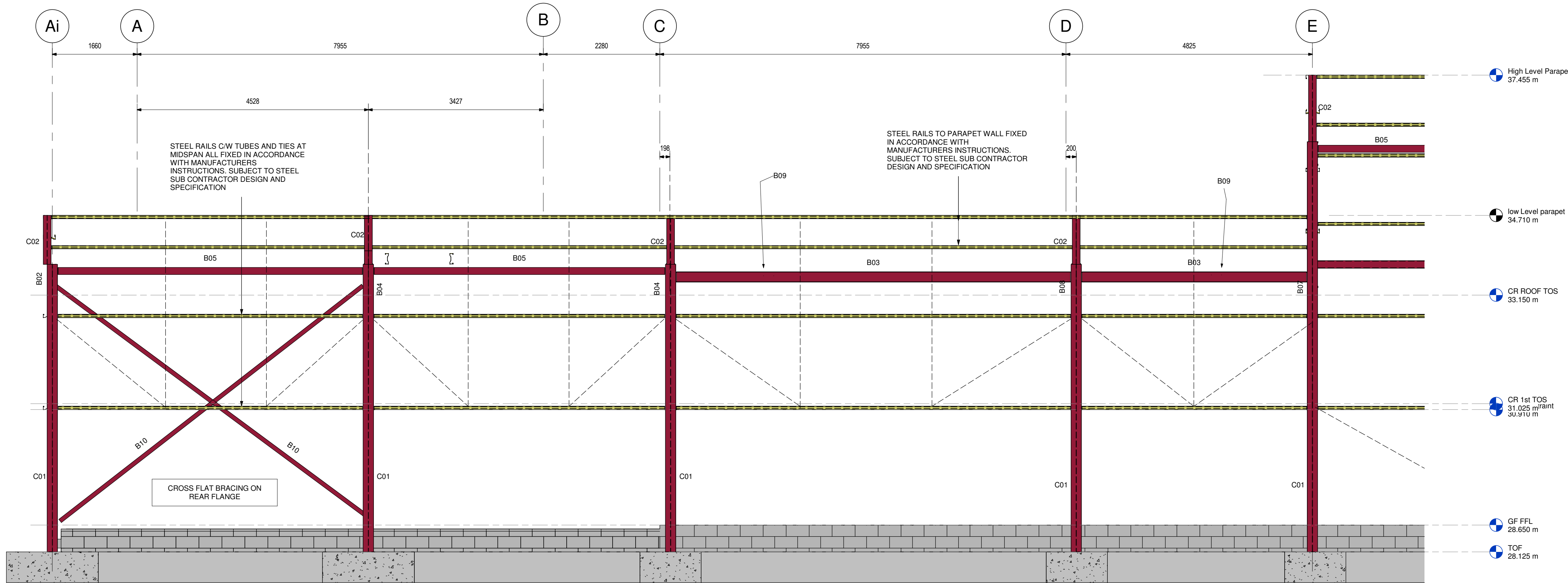
CONTRACT NUMBER: 136917	DATE: Issue Date
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INFORMATION STATUS: **FINAL ISSUE**

SUBCONTRACTOR COMPANY TRADE NAME	SUBCONTRACTOR CONTRACT REF. No
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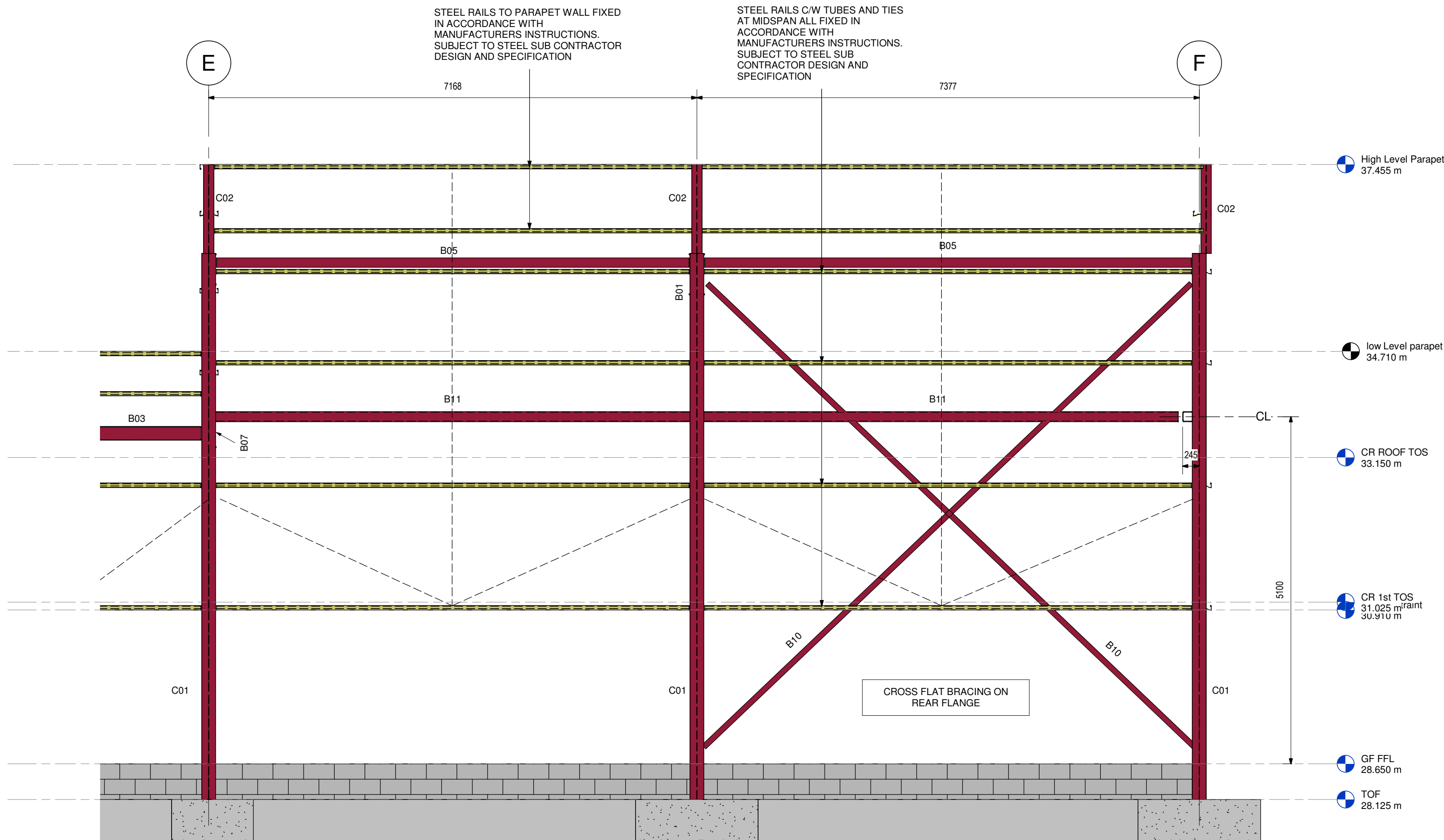


41636



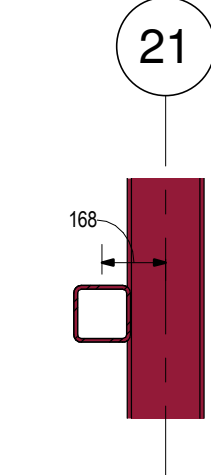
S6

Scale:- 1 : 50



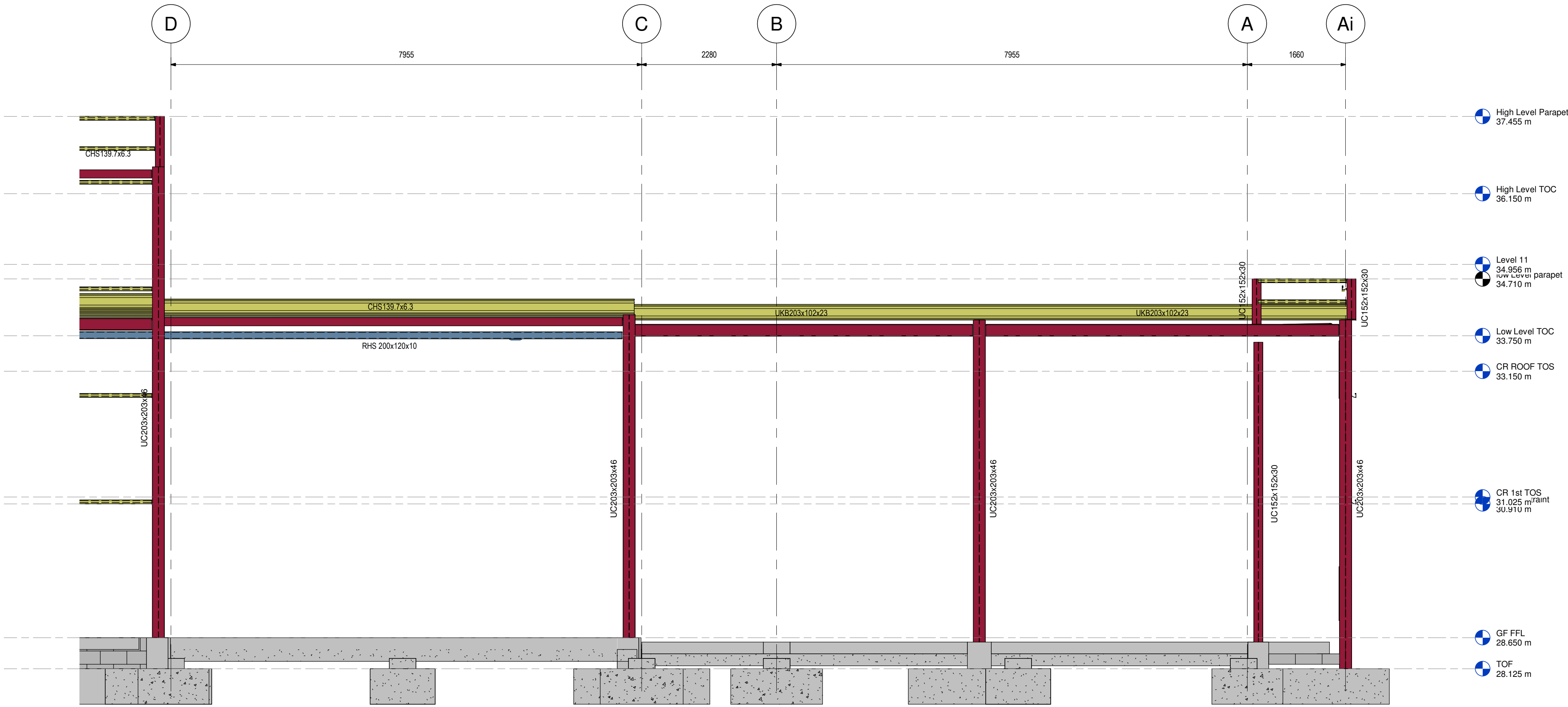
S7

Scale:- 1 : 50



S9

Scale:- 1 : 20



S8
Scale:- 1 : 50

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- S11. Purlins and rails to be installed in accordance manufacturers recommendations.
- S12. Principles of steel member setting out are as follows:
Columns and beams to be centred on grid UNO.
Intermediate beams to be positioned centrally between beams UNO.
Slab edge 150mm off beam centreline UNO.

HS01	Health and safety issue	14.08.20	KR	MC
C01	Revised For Construction	10.09.19	NO	KR
P01	First Issue	12.07.19	GW	KR

REV	REASON FOR REVISION	DATE	BY	CHK
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CLIENT:

Caledonian

PROJECT REF:

Haygrove School

DESCRIPTION:

STEELWORK SECTIONS SHEET 4

DOCUMENT REFERENCE No:

136917	AWP	MB	ZZ	DR	S	20	8604
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Ref	Orig	Zone	Level	Type	Role	Element	Chrono No.
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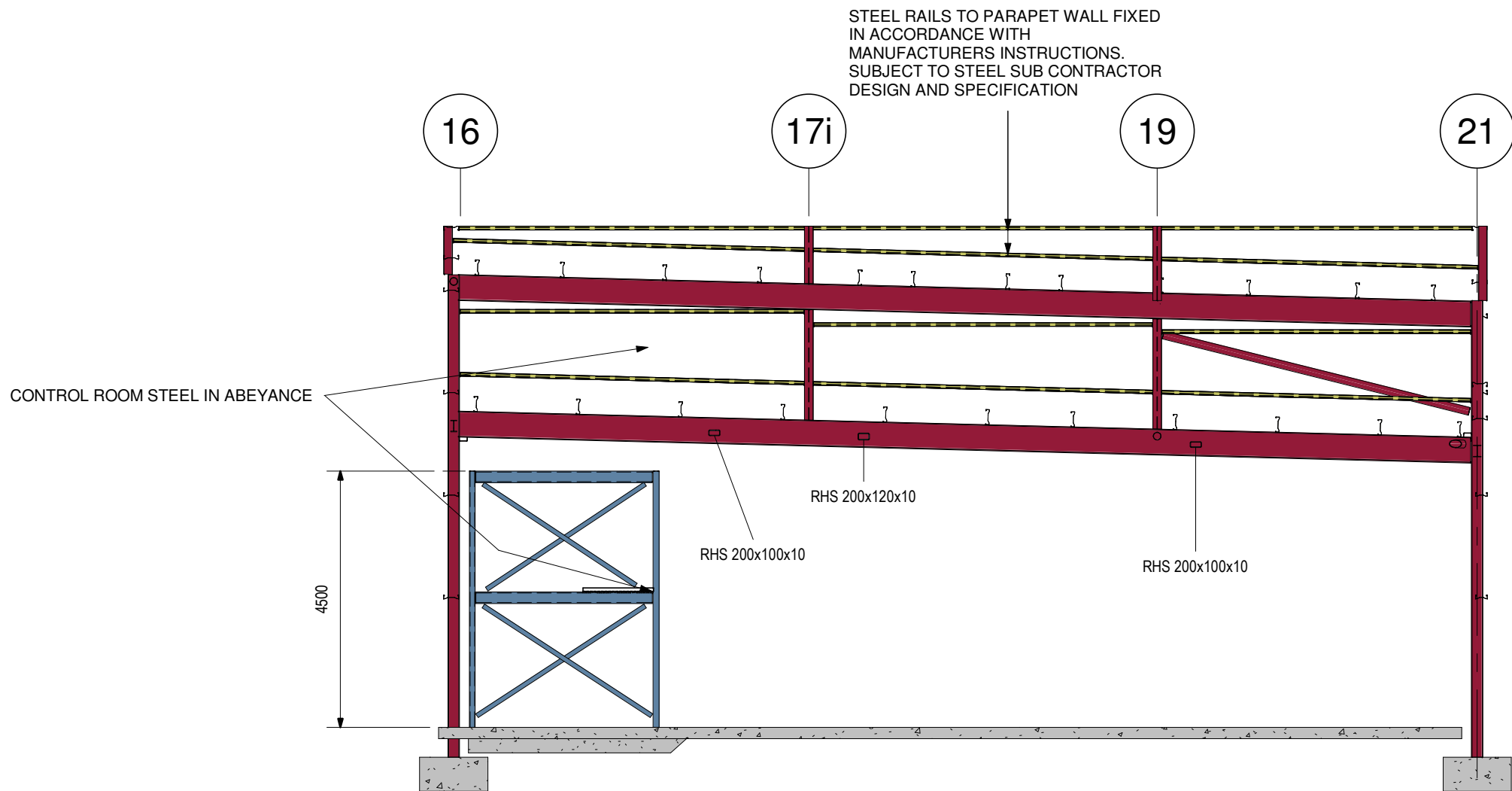
SCALE @ A1:	As indicated	REV:	HS01
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CONTRACT NUMBER:	136917	DATE:	Issue Date
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INFORMATION STATUS: **FINAL ISSUE**

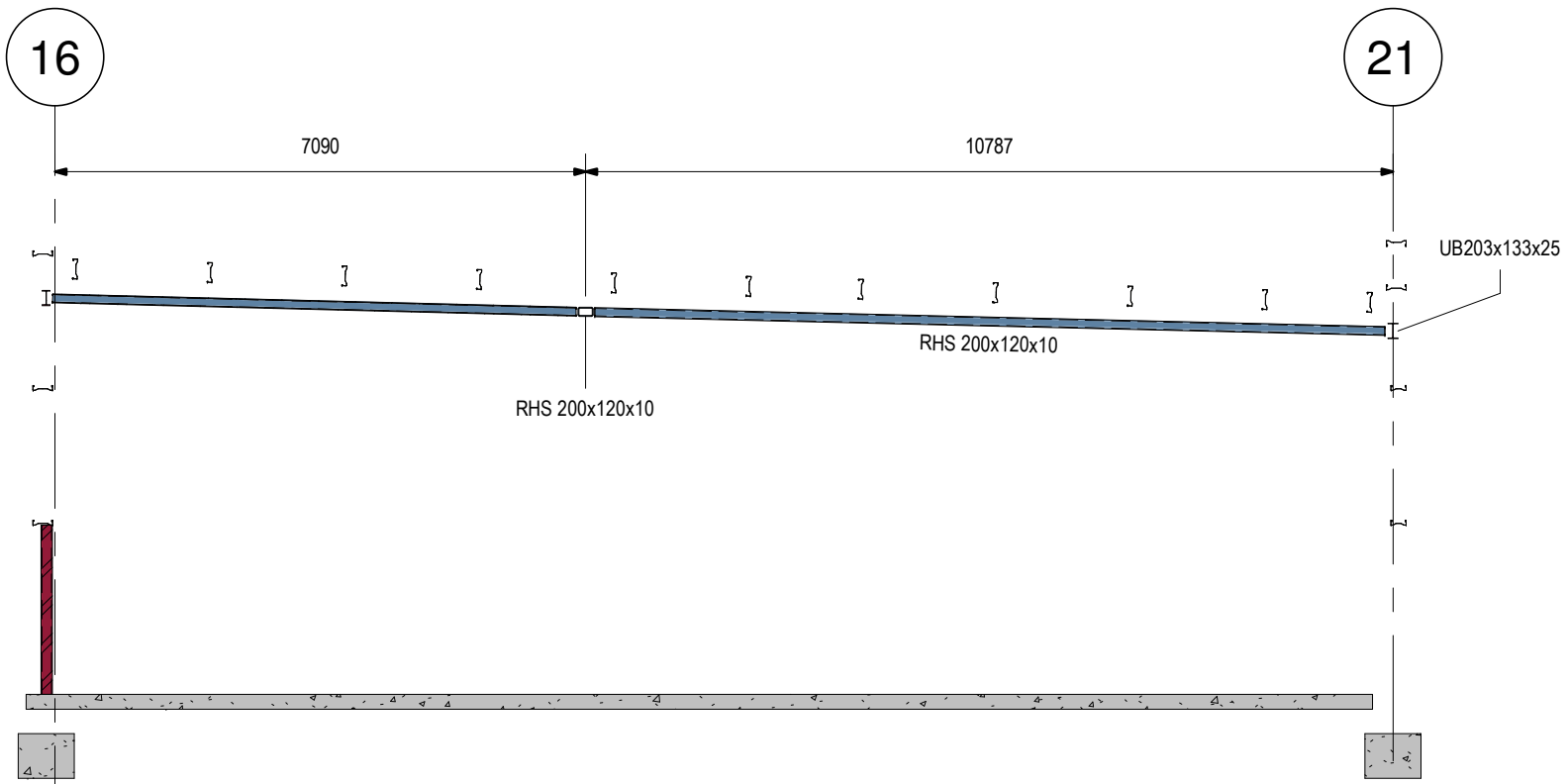
SUBCONTRACTOR COMPANY TRADE NAME	SUBCONTRACTOR CONTRACT REF. No
Alan Wood & Partners	41636





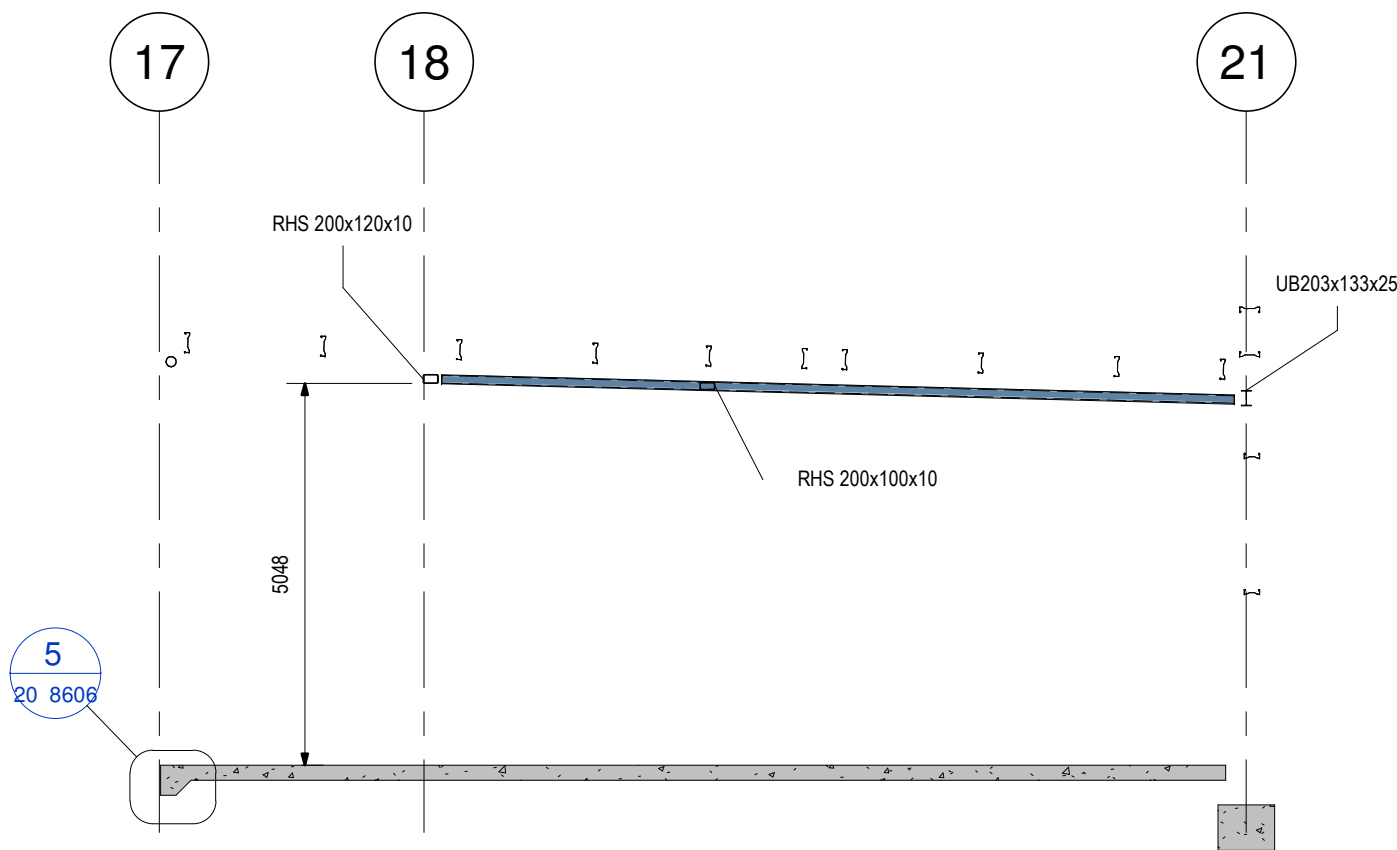
Section P1

Scale:- 1 : 100



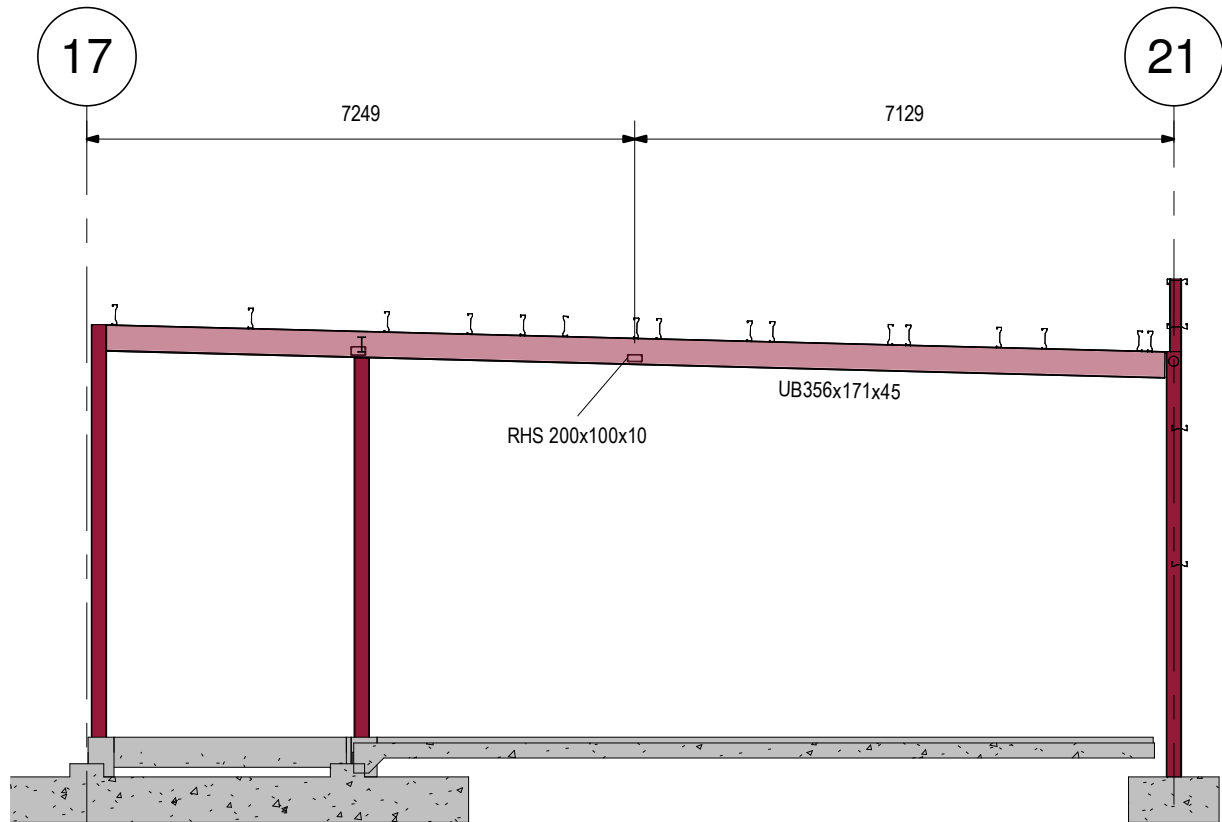
Section P2

Scale:- 1 : 100



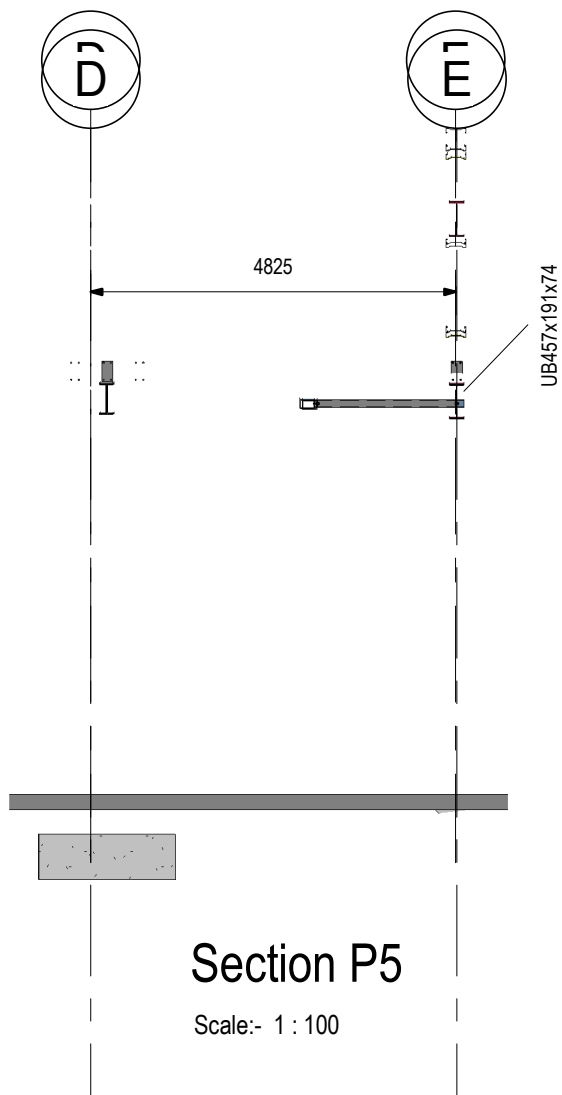
Section P3

Scale:- 1 : 100



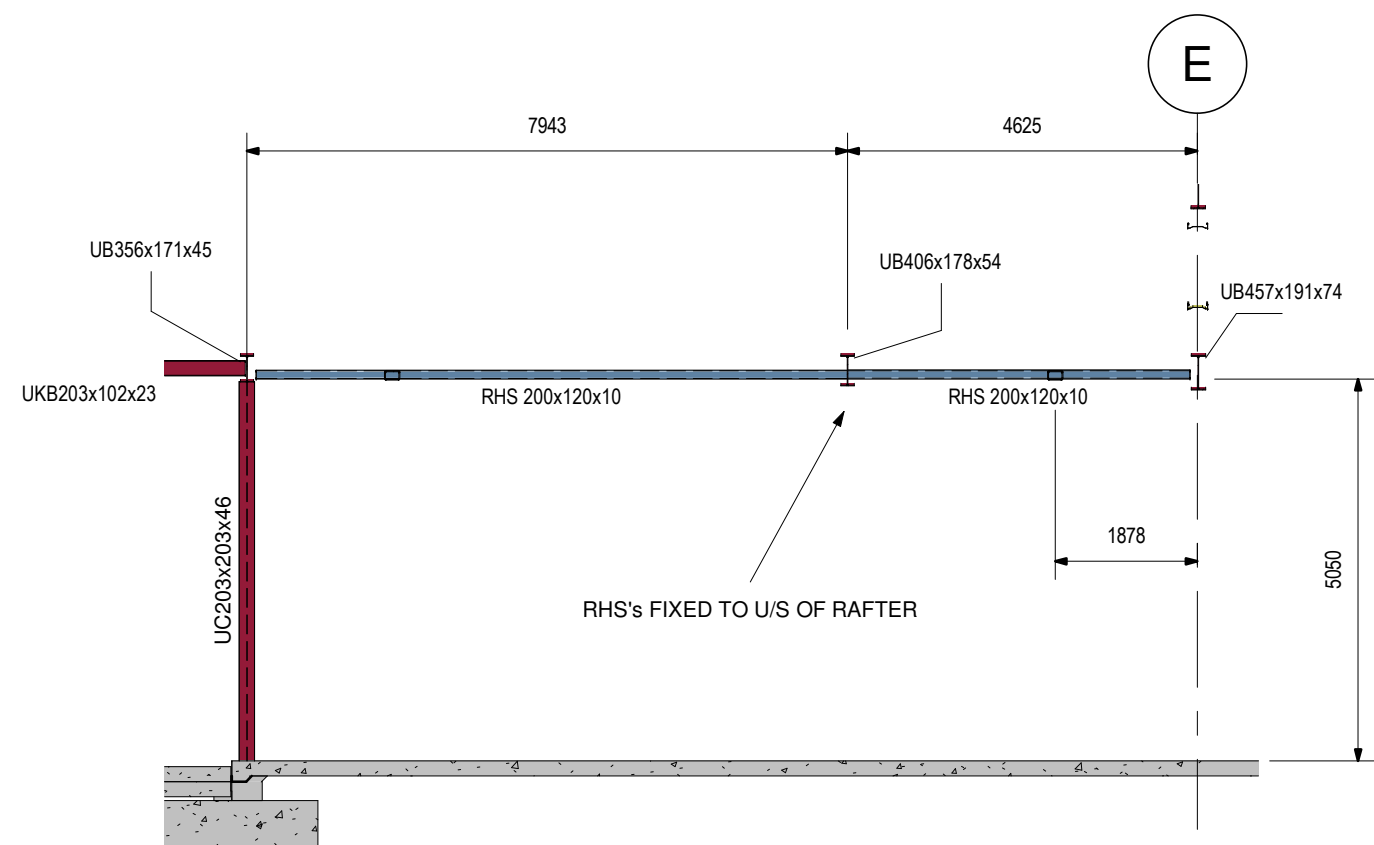
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Scale:- 1 : 100



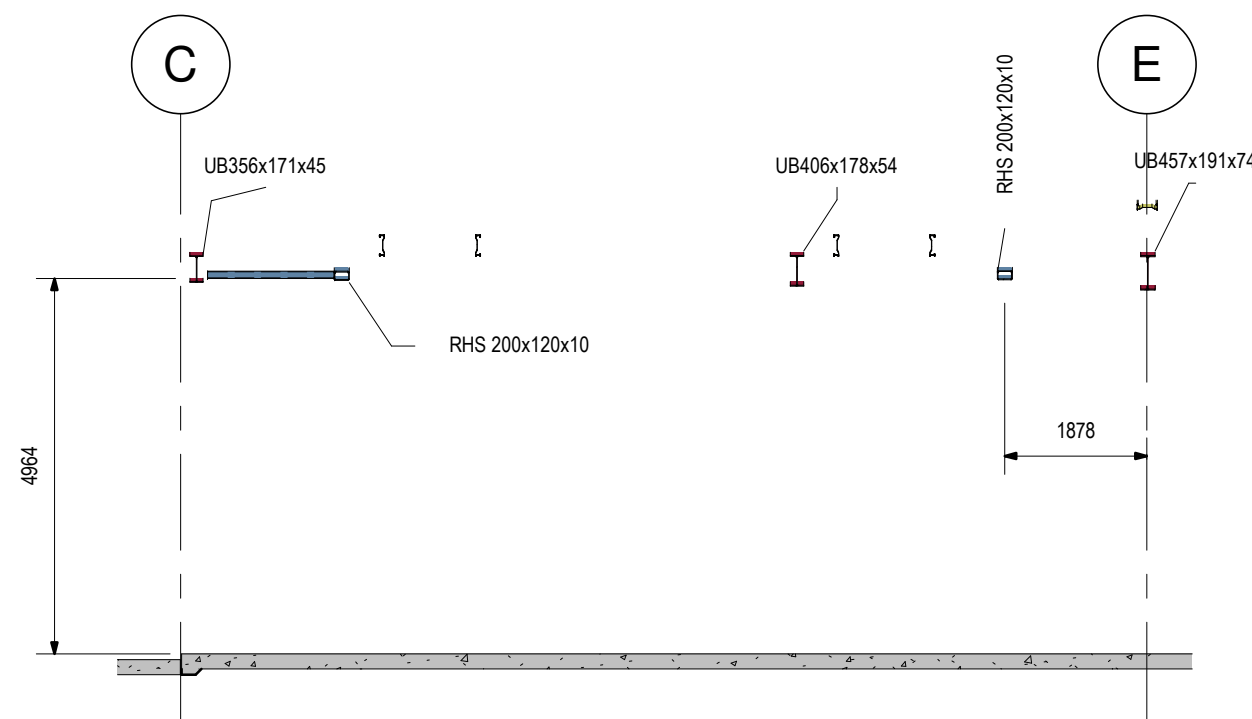
Section P5

Scale:- 1 : 100



Section P6

Scale:- 1 : 100



Section P7

Scale:- 1 : 100

HEALTH AND SAFETY

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Intermediate beams to be positioned centrally between beams UNO.
Slab edge 150mm off beam centreline UNO.

HS01	Health and safety issue	14.08.20	KR	MC
CO1	Revised For Construction	10.09.19	ND	KR
P02	Rails added to parapet, PFC block restraint removed	17.07.19	SW	KR
P01	First Issue	12.07.19	GW	KR
REV	REASON FOR REVISION	DATE	BY	CHK



CLIENT:
Caledonian

PROJECT REF:
Haygrove School

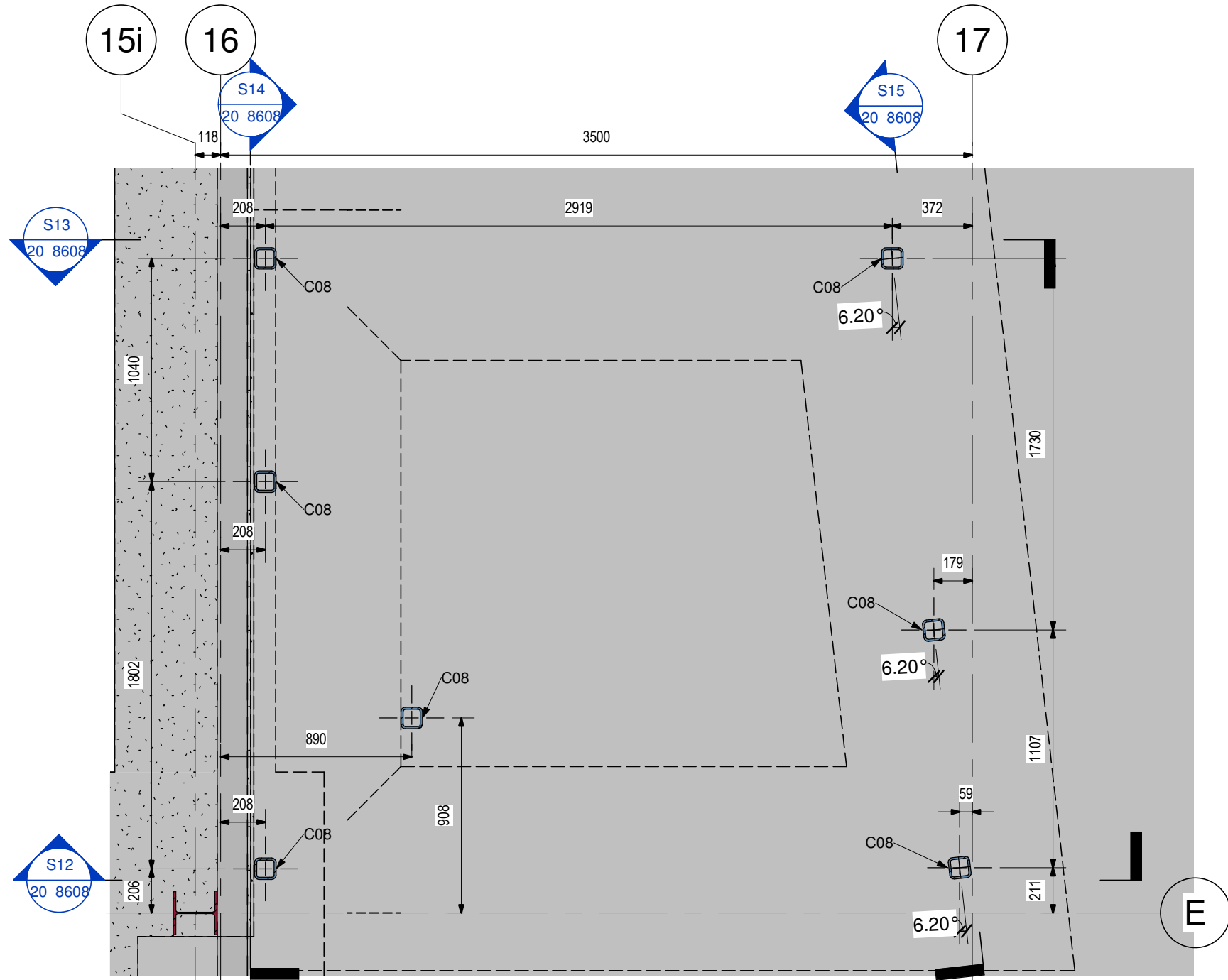
DESCRIPTION:
Sections through Partition Steelwork

DOCUMENT REFERENCE No:							
136917	AWP	MB	ZZ	DR	S	20	8605

Ref	Orig	Zone	Level	Type	Role	Element	Chrono No.
SCALE @ A1: As indicated				REV:	HS01		
CONTRACT NUMBER: 136917				DATE:	Issue Date		

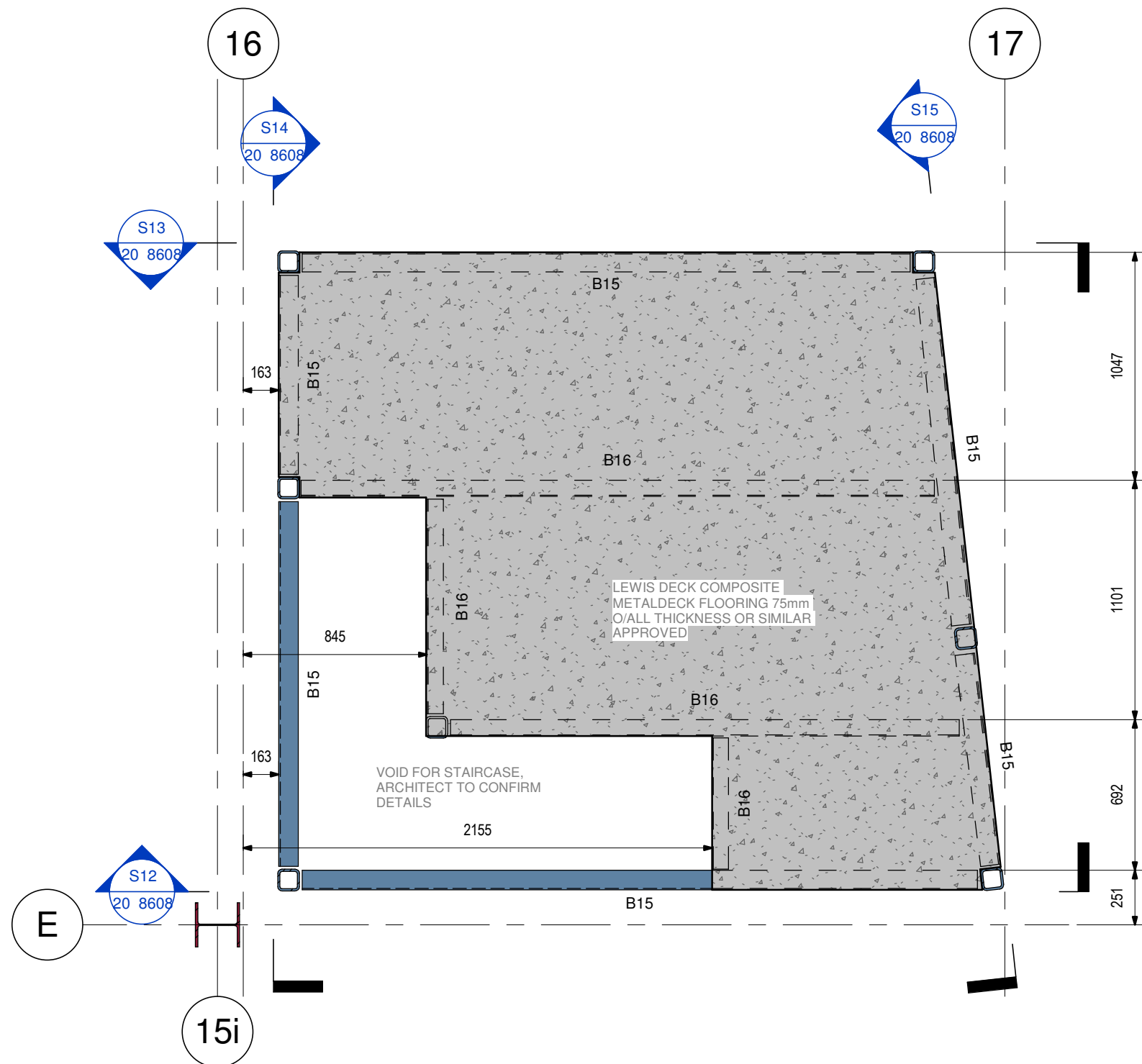
INFORMATION STATUS: **FINAL ISSUE**

SUBCONTRACTOR COMPANY TRADE NAME	SUBCONTRACTOR CONTRACT REF. No
Alan Wood & Partners	41636



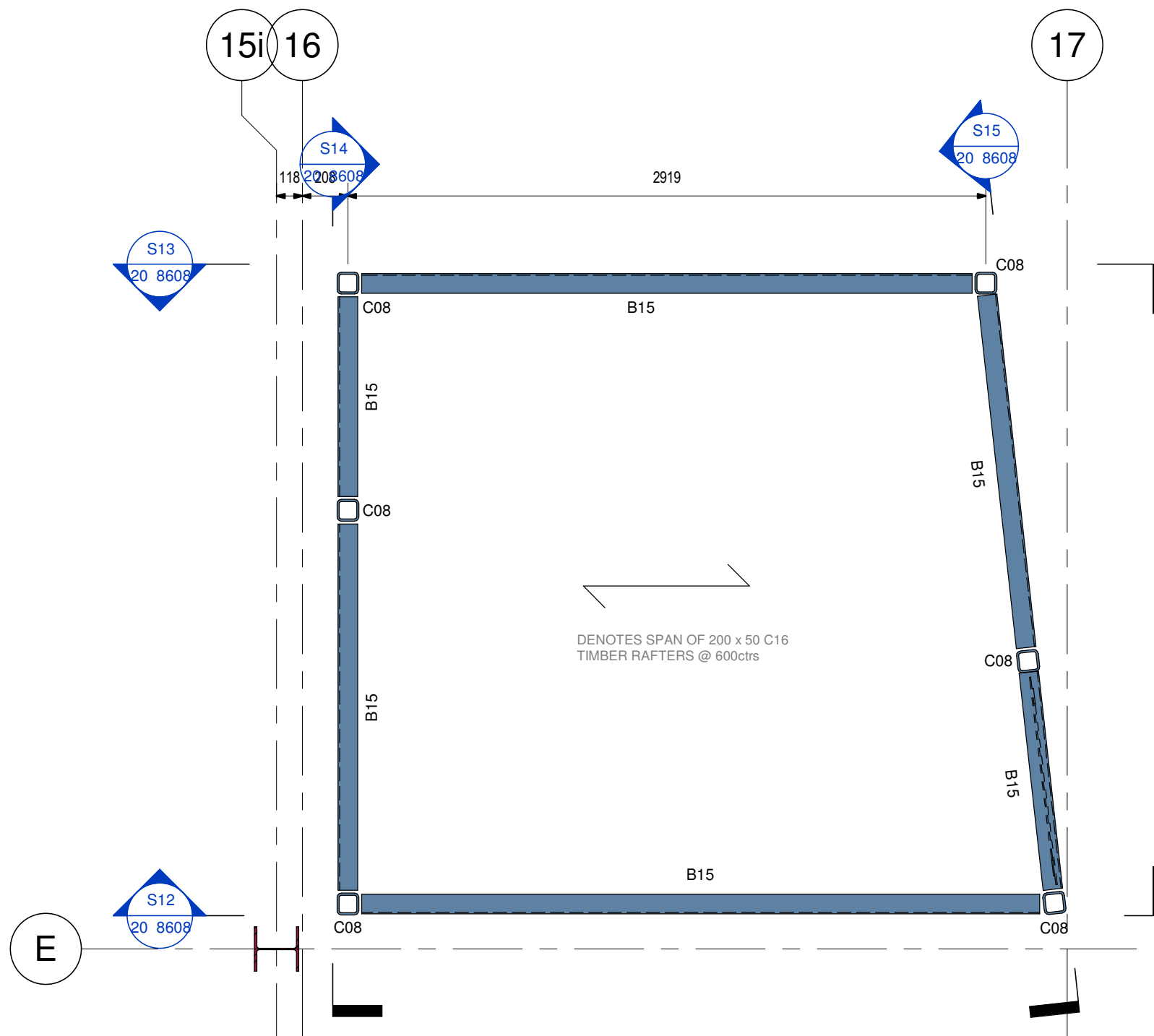
GF FFL CONTROL ROOM

Scale:- 1:25



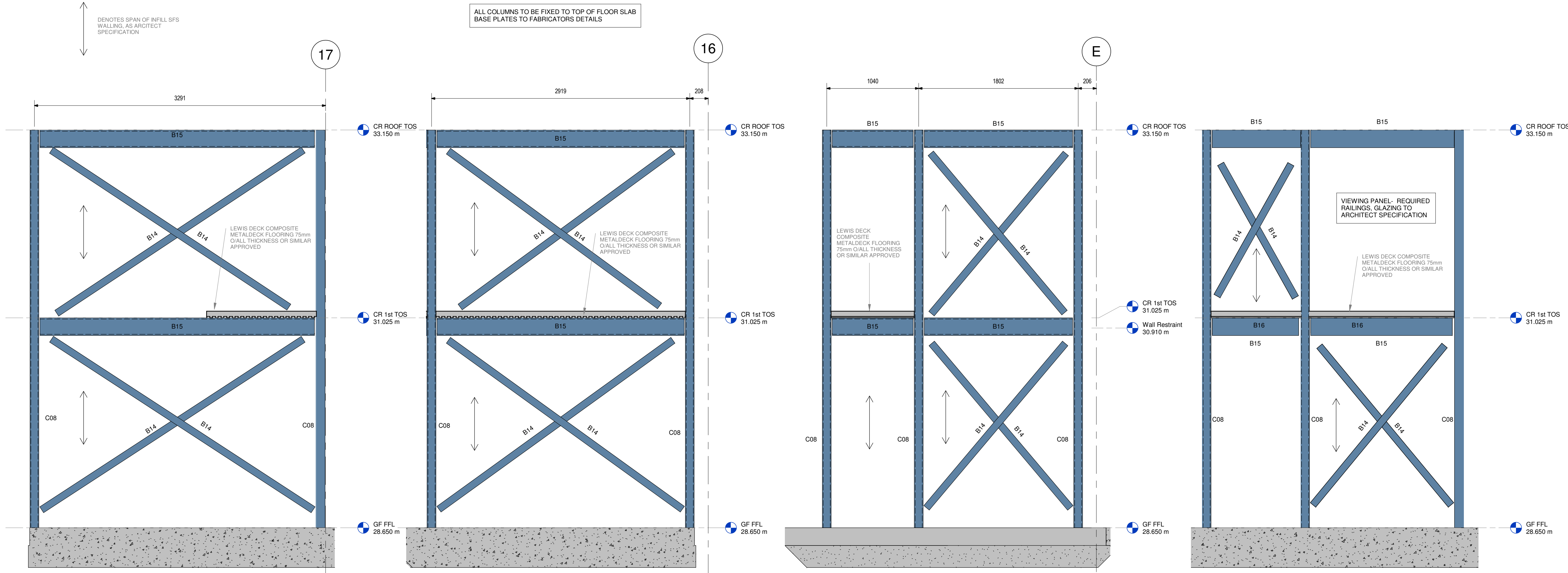
CR 1st TOS

Scale:- 1:25



CR ROOF TOS

Scale:- 1:25



S12

Scale:- 1:25

S13

Scale:- 1:25

S14

Scale:- 1:25

S15

Scale:- 1:25

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NOTES:

Steel Column Reference	
Column ref	Size
C01	UC203x203x46
C02	UC152x152x30
C03	PFC150x75x18
C04	UC203x203x60
C05	UC203x133x30
C06	UC203x203x86
C08	SHS100x100x10

Steel Beam Reference	
Beam Ref	Size
B01	UB610x229x101
B02	UB254x148x31
B03	UB203x133x25
B04	UB356x171x45
B05	CHS139.7x6.3
B06	PFC150x90x24
B07	UB457x191x74
B08	UB406x178x54
B09	RHS 200x120x10
B10	80x10 FLAT
B11	SHS 150x150x10
B12	RHS 200x100x10
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B14	80x6 FLAT
B15	PFC200x90x30
B16	PFC150x75x18

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HS01	Health and safety issue	14.08.20	KR	KIC
C01	First Issue	18.10.19	SW	KR

REV	REASON FOR REVISION	DATE	BY	CHK
-----	---------------------	------	----	-----



CLIENT:
Caledonian

PROJECT REF:
Haygrove School

DESCRIPTION:
Control room steelwork details

DOCUMENT REFERENCE No:						
136917	AWP	MB	ZZ	DR	S	20 8608

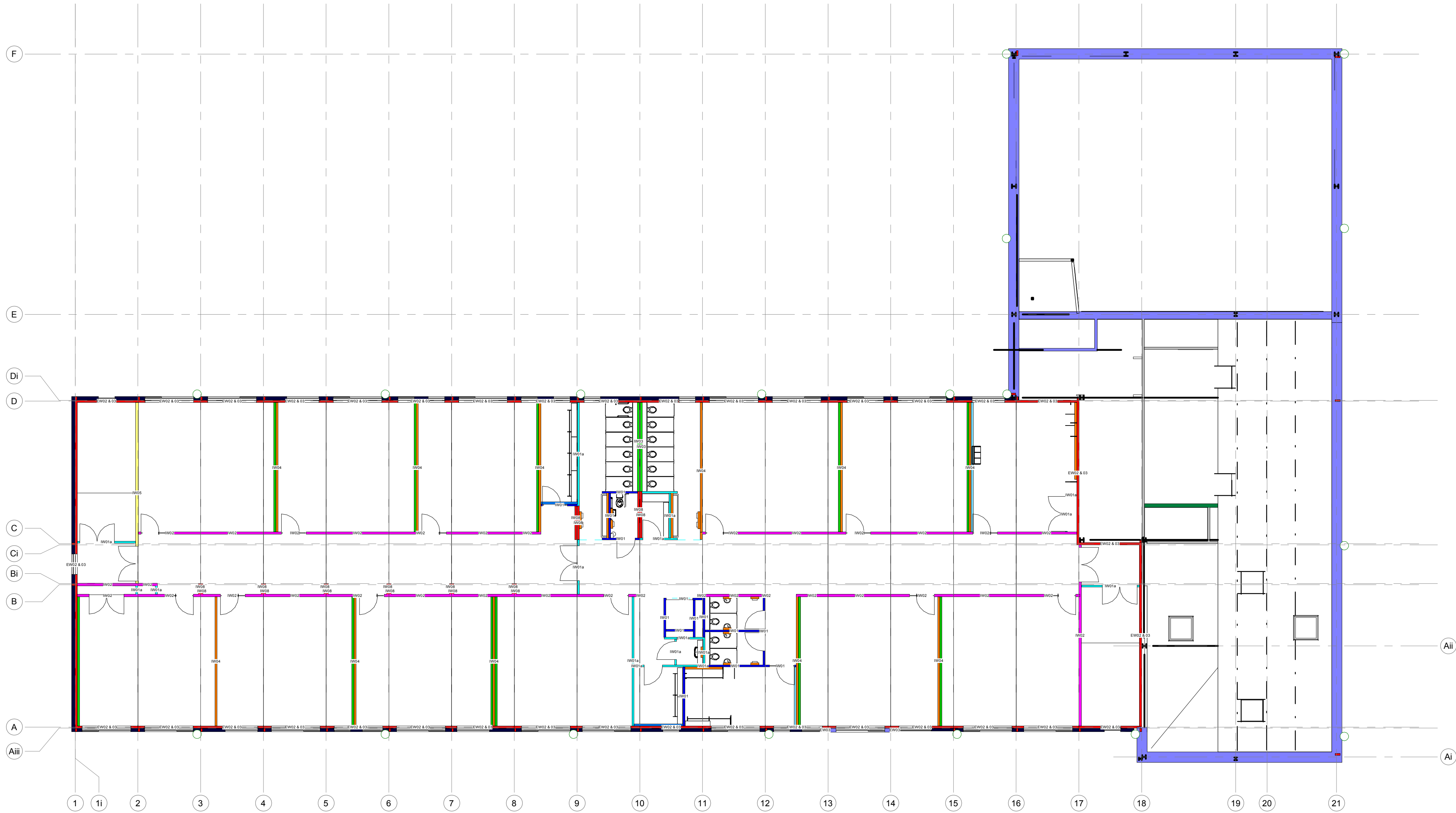
Ref	Orig	Zone	Level	Type	Role	Element	Chrono No.
SCALE @ A1: 1:25							REV: HS01
CONTRACT NUMBER: 136917							DATE: Issue Date

INFORMATION STATUS: FINAL ISSUE

SUBCONTRACTOR COMPANY TRADE NAME	SUBCONTRACTOR CONTRACT REF. No
Alan Wood & Partners	41636

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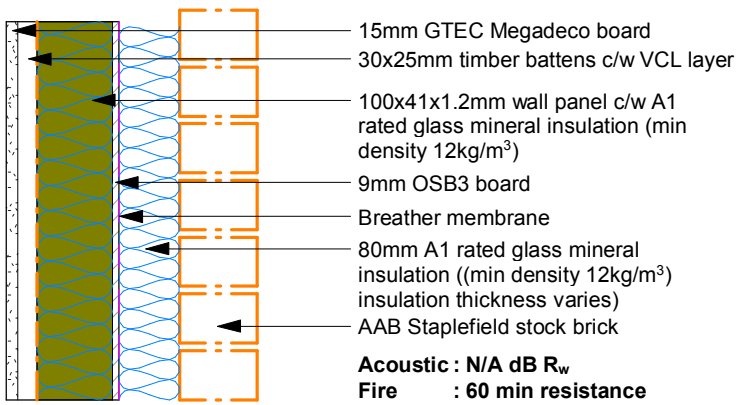
NOTES:



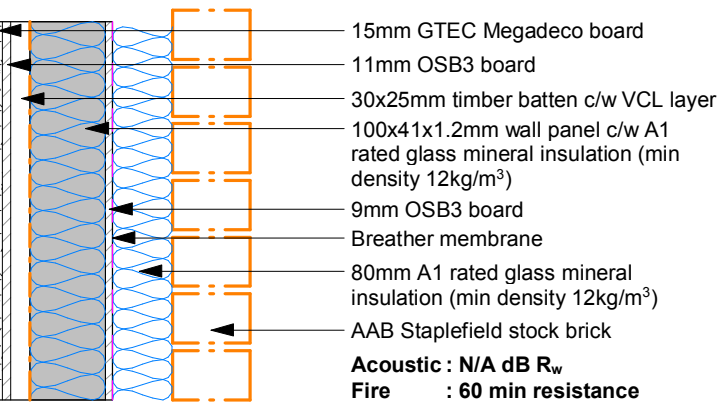
01 First Floor - Wall Compartmentation GA

NOTE:
Fire rating from inside to
out only at present

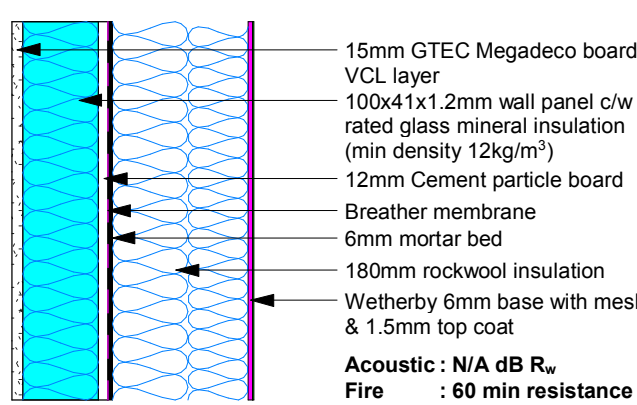
Wall Type - EW01



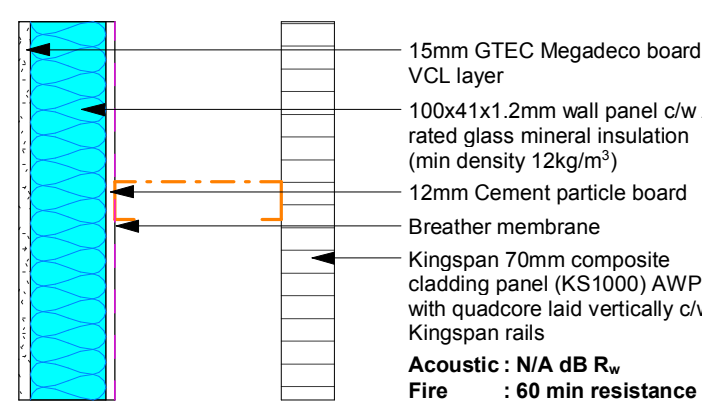
Wall Type - EW01a



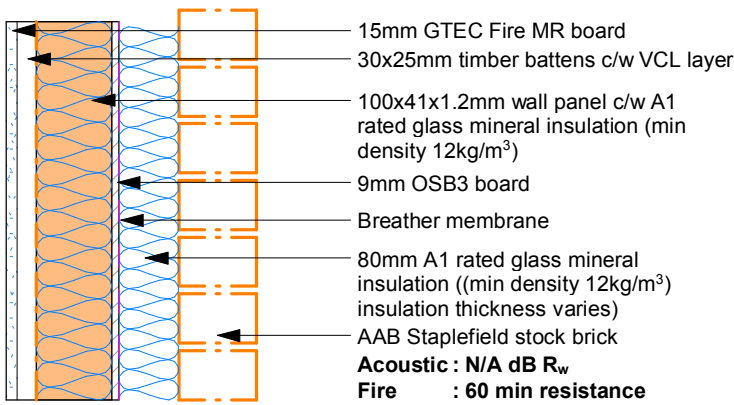
Wall Type - EW02



Wall Type - EW03



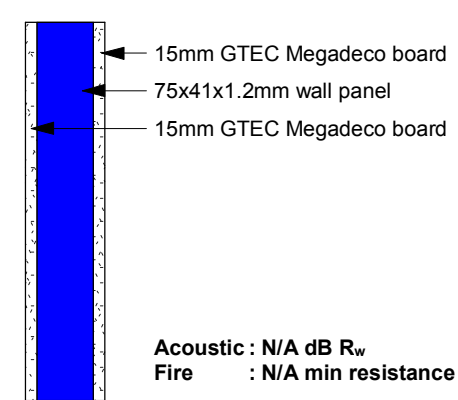
Wall Type - EW04



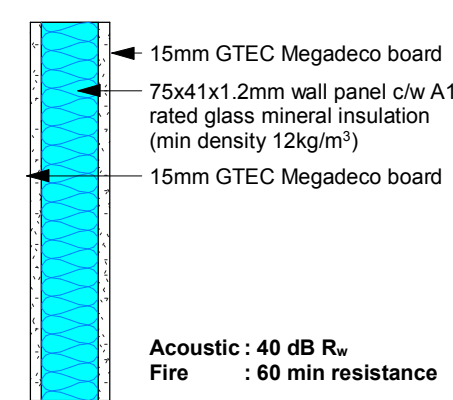
Wall class - Severe (corridors)
Wall class - Heavy (all other areas)

NOTE:
Fire rating from inside to
out only at present

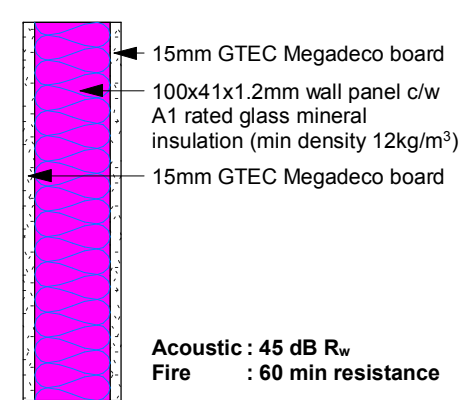
Wall Type - IW01



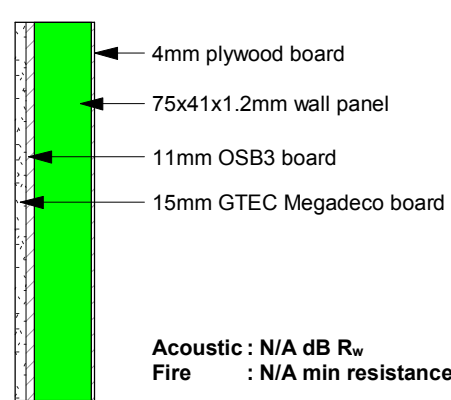
Wall Type - IW01a



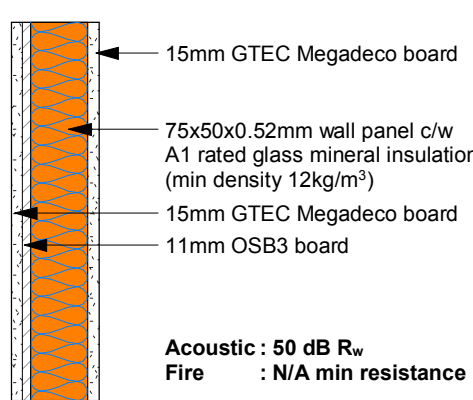
Wall Type - IW02



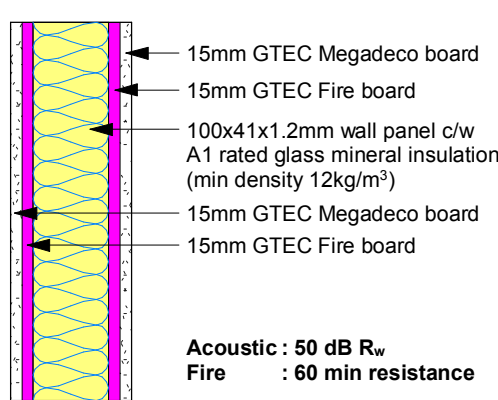
Wall Type - IW03



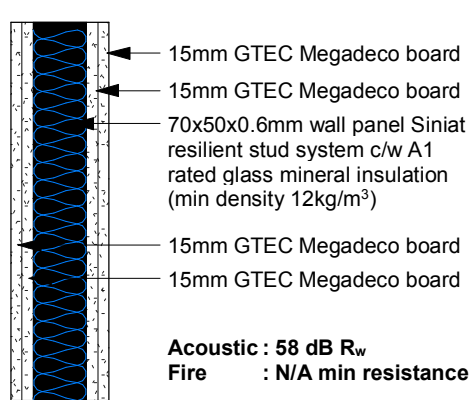
Wall Type - IW04



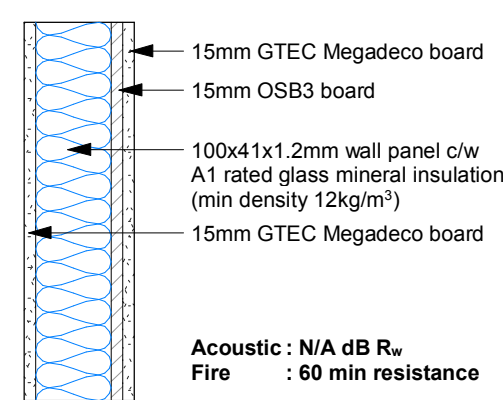
Wall Type - IW05



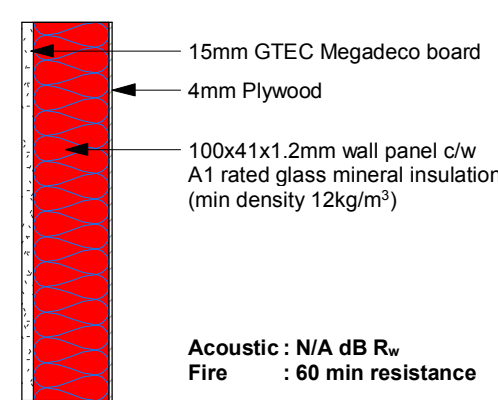
Wall Type - IW06



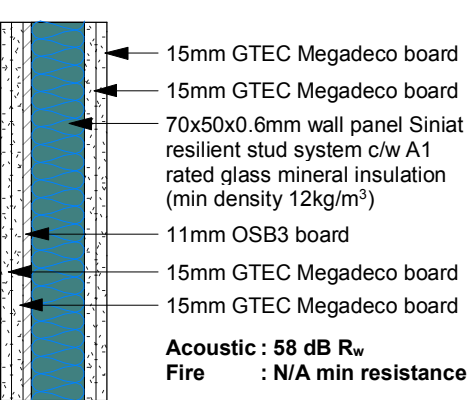
Wall Type - IW07



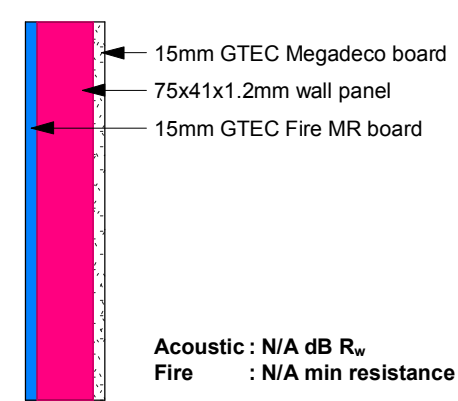
Wall Type - IW08



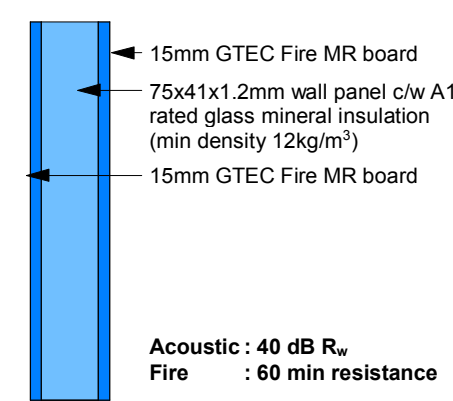
Wall Type - IW10



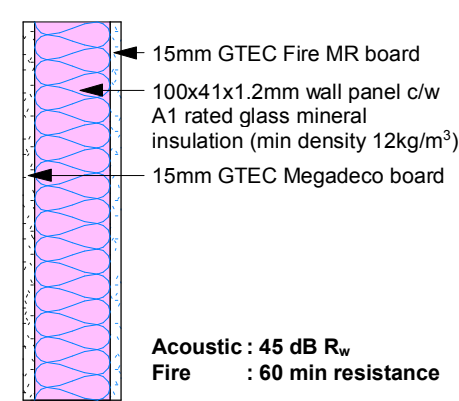
Wall Type - IW11



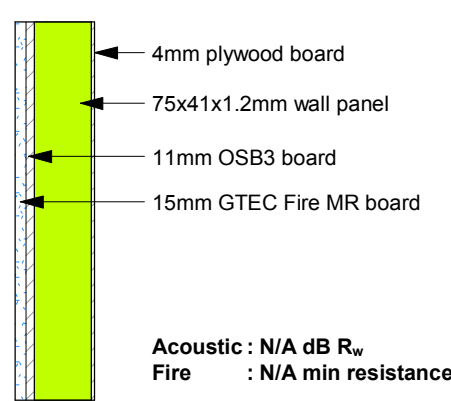
Wall Type - IW12



Wall Type - IW13



Wall Type - IW14



C04	Final Issue	14/09/20	JH	KC
C03	Revised detail	13/06/19	EA	TD
C02	Revised	10/07/19	EA	TD
C01	Construction Issue	20/03/19	DW	TC

REV	REASON FOR REVISION	DATE	BY	CHK
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CLIENT:

Caledonian

PROJECT REF:

Haygrove School

DESCRIPTION:

First Floor - Wall Compartmentation GA

DOCUMENT REFERENCE No:

136917 - CAL - MB - 01 - DR - W - 25-0101

Project Orig Volume Level Type Role Class Numeric

SCALE @ A1: As Indicated REV: C04

CONTRACT NUMBER: 136917 DATE: 10/02/2020

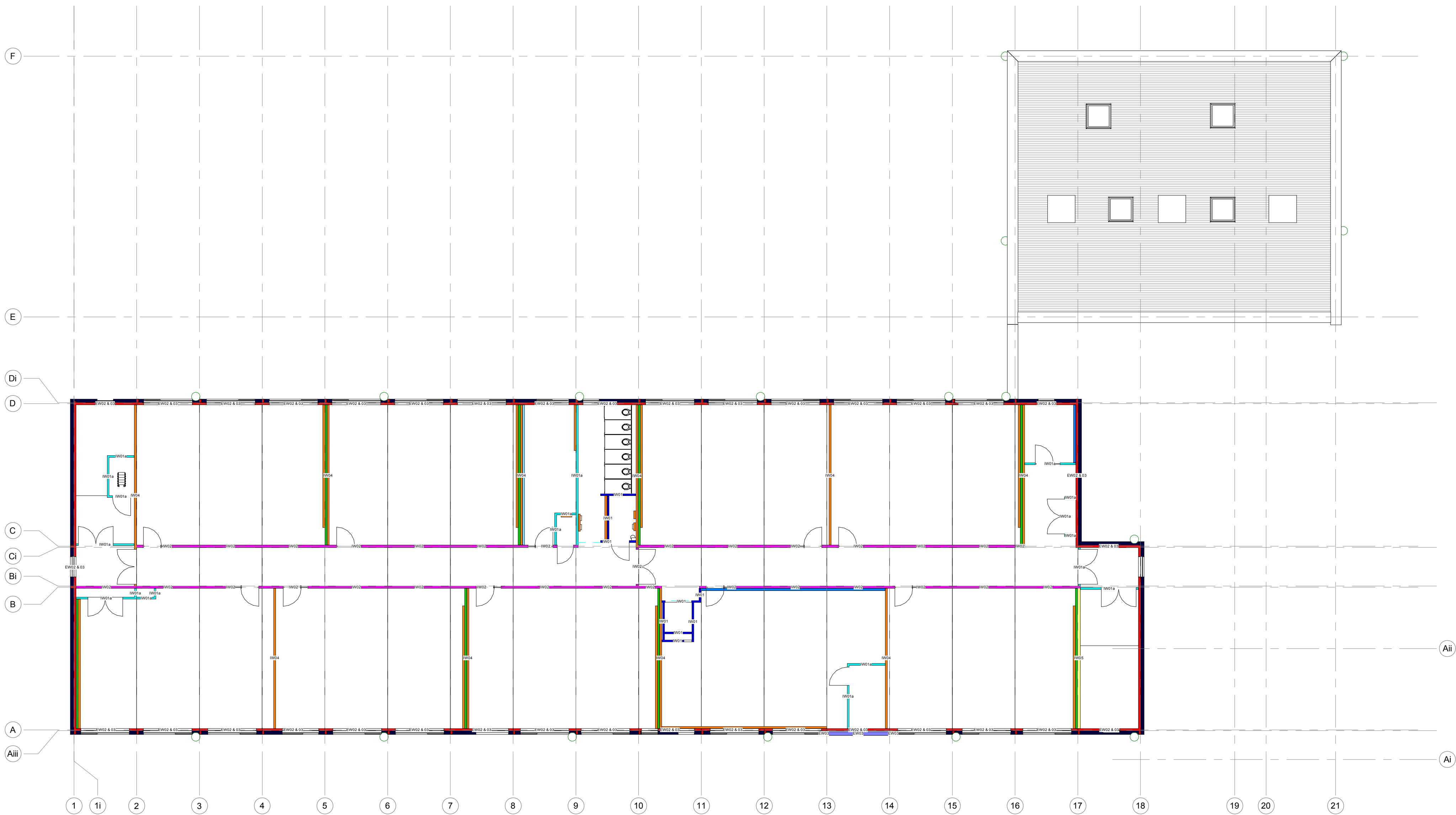
INFORMATION STATUS: FINAL ISSUE

SUBCONTRACTOR COMPANY TRADE NAME

SUBCONTRACTOR CONTRACT REF. No

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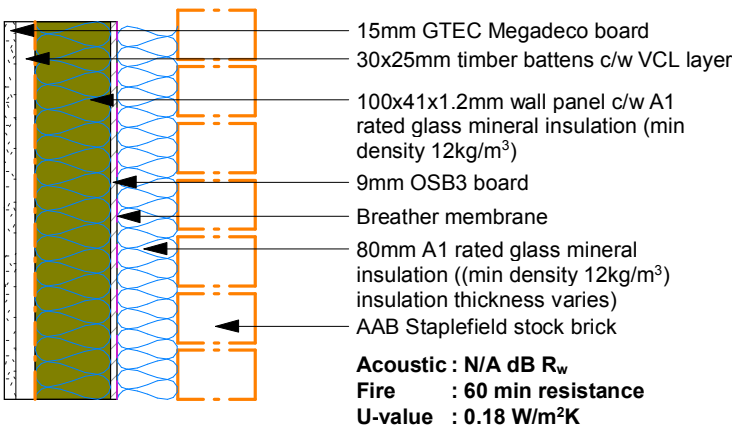
NOTES:



02 Second Floor - Wall Compartmentation GA

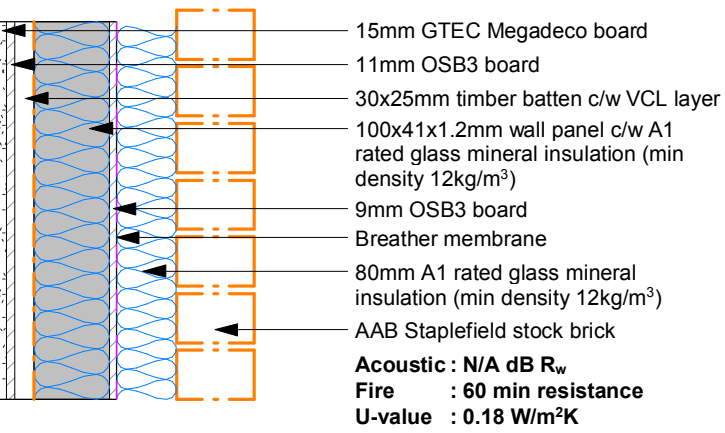
NOTE:
Fire rating from inside to
out only at present

Wall Type - EW01



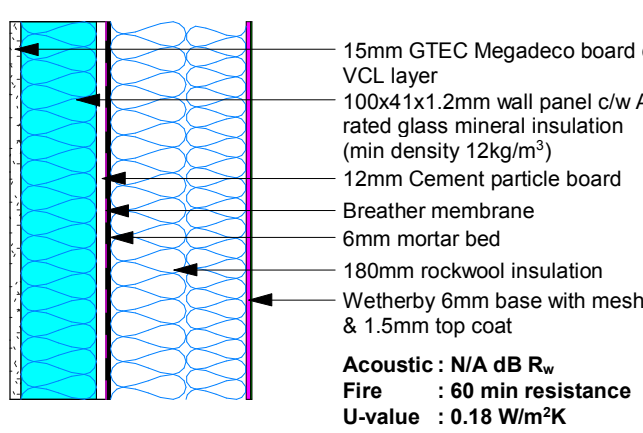
Acoustic : N/A dB R_w
Fire : 60 min resistance
U-value : 0.18 W/m²K

Wall Type - EW01a



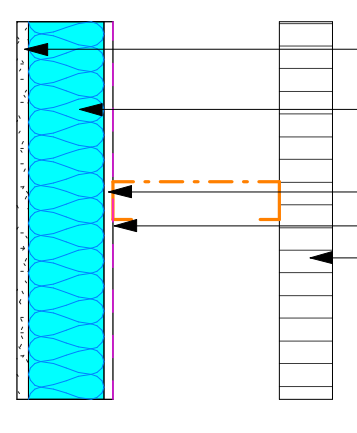
Acoustic : N/A dB R_w
Fire : 60 min resistance
U-value : 0.18 W/m²K

Wall Type - EW02



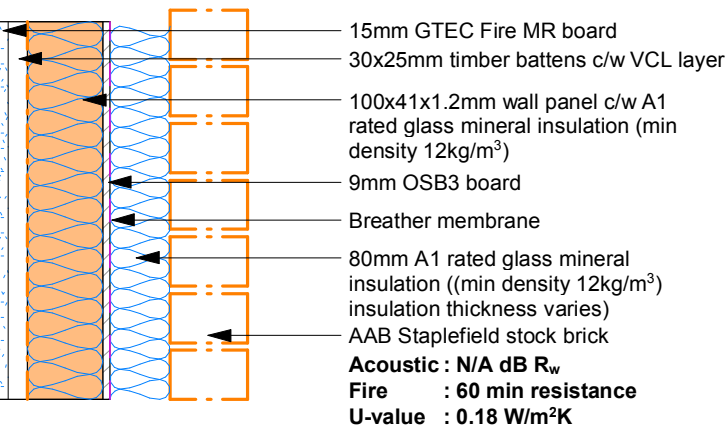
Acoustic : N/A dB R_w
Fire : 60 min resistance
U-value : 0.18 W/m²K

Wall Type - EW03



Acoustic : N/A dB R_w
Fire : 60 min resistance
U-value : 0.18 W/m²K

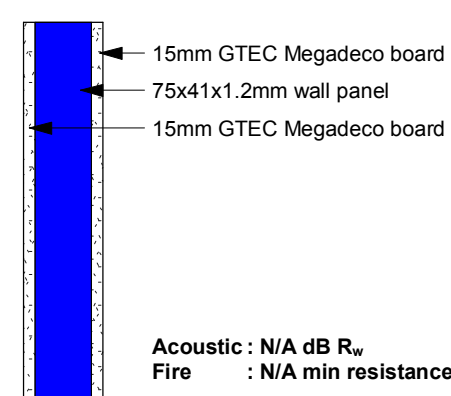
Wall Type - EW04



Acoustic : N/A dB R_w
Fire : 60 min resistance
U-value : 0.18 W/m²K

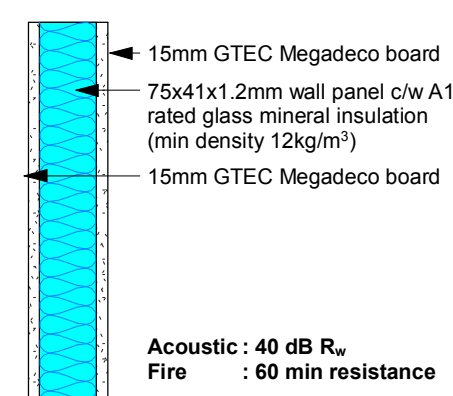
Wall class - Severe (corridors)
Wall class - Heavy (all other areas)

Wall Type - IW01



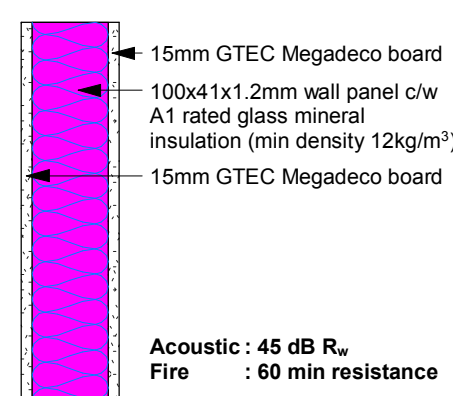
Acoustic : N/A dB R_w
Fire : N/A min resistance

Wall Type - IW01a



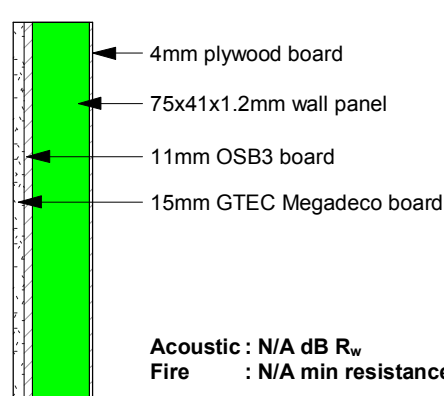
Acoustic : 40 dB R_w
Fire : 60 min resistance

Wall Type - IW02



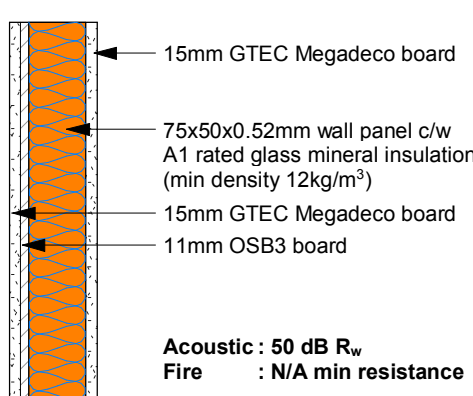
Acoustic : 45 dB R_w
Fire : 60 min resistance

Wall Type - IW03



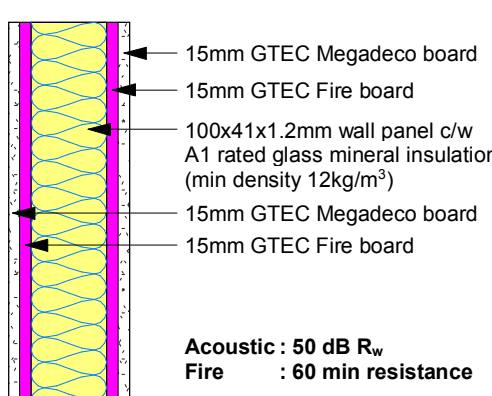
Acoustic : N/A dB R_w
Fire : N/A min resistance

Wall Type - IW04



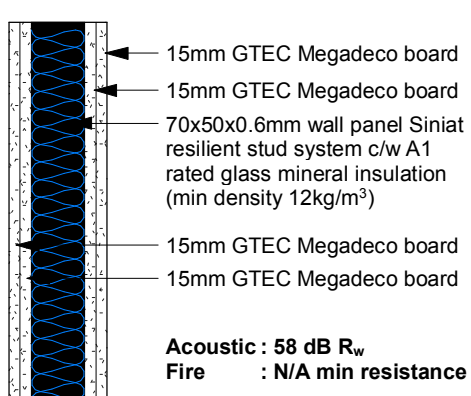
Acoustic : 50 dB R_w
Fire : N/A min resistance

Wall Type - IW05



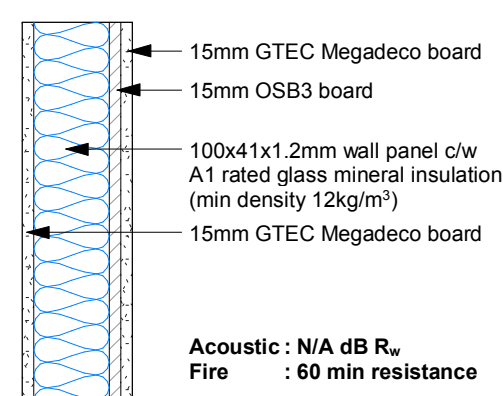
Acoustic : 50 dB R_w
Fire : 60 min resistance

Wall Type - IW06



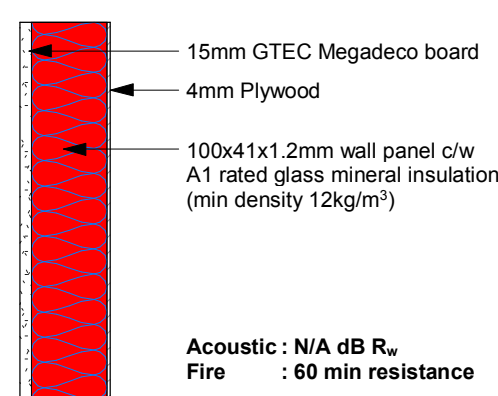
Acoustic : 58 dB R_w
Fire : N/A min resistance

Wall Type - IW07



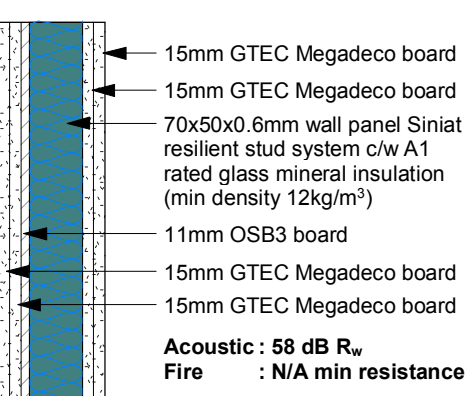
Acoustic : N/A dB R_w
Fire : 60 min resistance

Wall Type - IW08



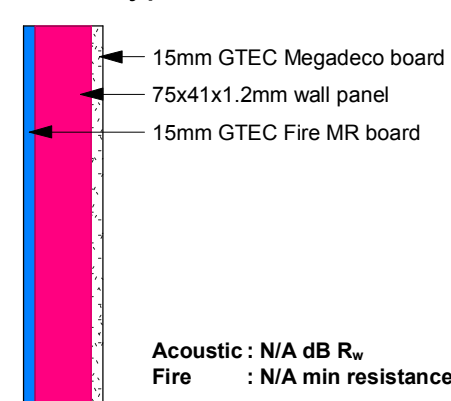
Acoustic : N/A dB R_w
Fire : 60 min resistance

Wall Type - IW10



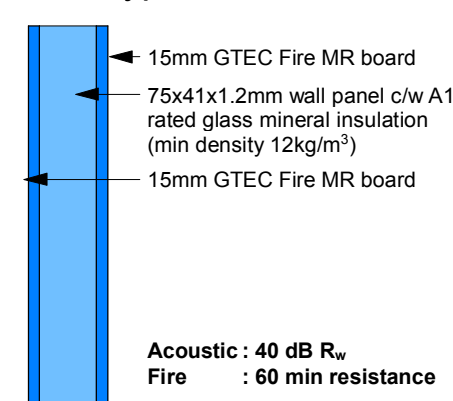
Acoustic : 58 dB R_w
Fire : N/A min resistance

Wall Type - IW11



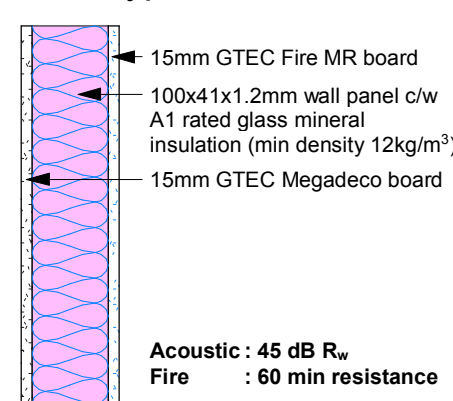
Acoustic : N/A dB R_w
Fire : N/A min resistance

Wall Type - IW12



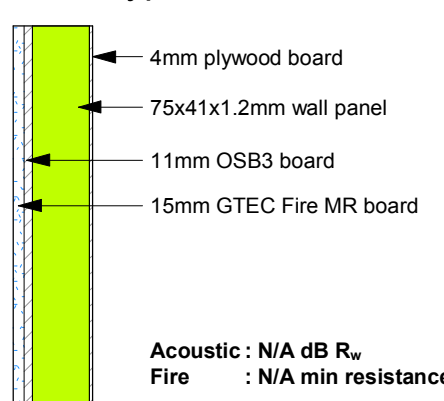
Acoustic : 40 dB R_w
Fire : 60 min resistance

Wall Type - IW13



Acoustic : 45 dB R_w
Fire : 60 min resistance

Wall Type - IW14



Acoustic : N/A dB R_w
Fire : N/A min resistance

C05	Final issue updated	08/10/20	JH	KC
C04	Final issue	14/09/20	JH	KC
C03	Revised detail	13/08/19	EA	TD
C02	Revised	10/07/19	EA	TD
C01	Construction issue	20/03/19	DW	TC

REV	REASON FOR REVISION	DATE	BY	CHK
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CLIENT:

Caledonian

PROJECT REF:

Haygrove School

DESCRIPTION:

Second Floor - Wall Compartmentation GA

DOCUMENT REFERENCE No:

136917	CAL	MB	02	DR	W	25-0102
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Project	Orig	Volume	Level	Type	Role	Class	Numeric
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SCALE @ A1:	As Indicated	REV:	C05
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CONTRACT NUMBER:	136917	DATE:	22/09/20
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INFORMATION STATUS: **FINAL ISSUE**

SUBCONTRACTOR COMPANY TRADE NAME	SUBCONTRACTOR CONTRACT REF. No
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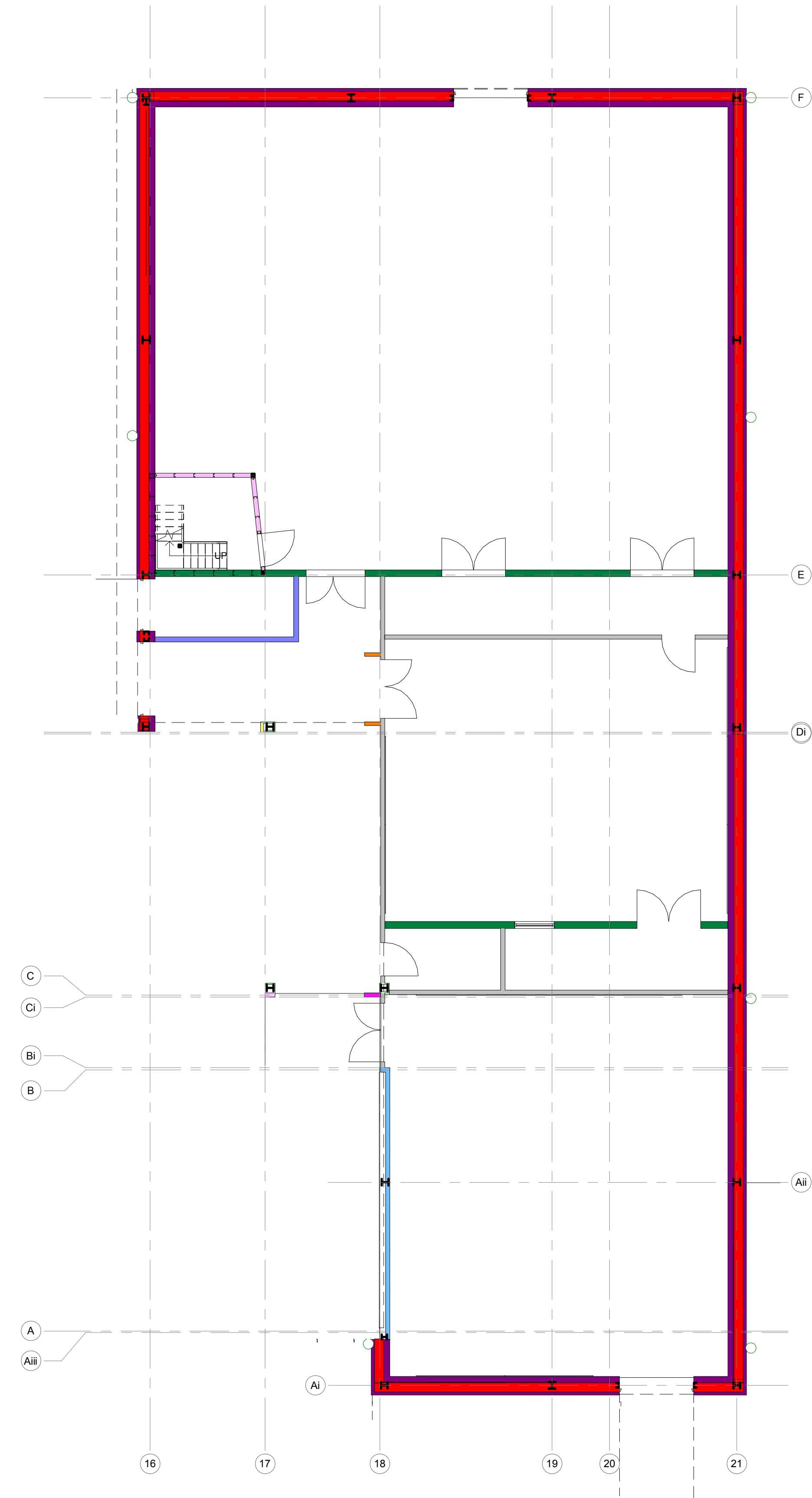
Do not scale directly from drawing - if in doubt ask!



Wall class - Severe (corridors)
Wall class - Heavy (all other areas)

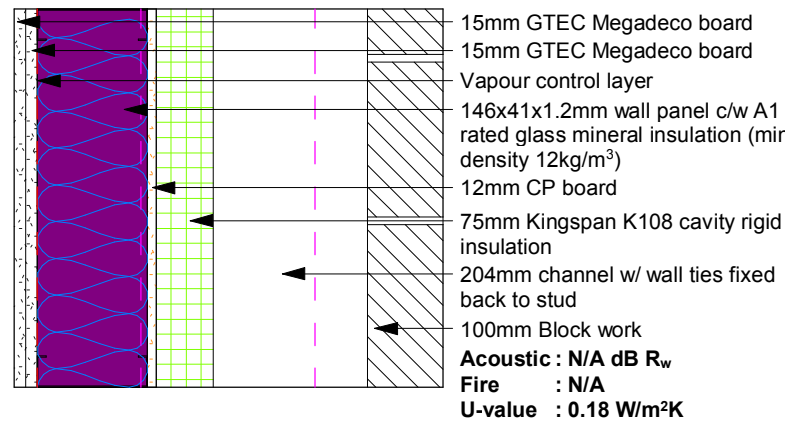
4mm plywood board
75x41x1.2mm wall panel
11mm OSB3 board
15mm GTEC Fire MR board

Acoustic : N/A dB R_w
Fire : N/A min resistance



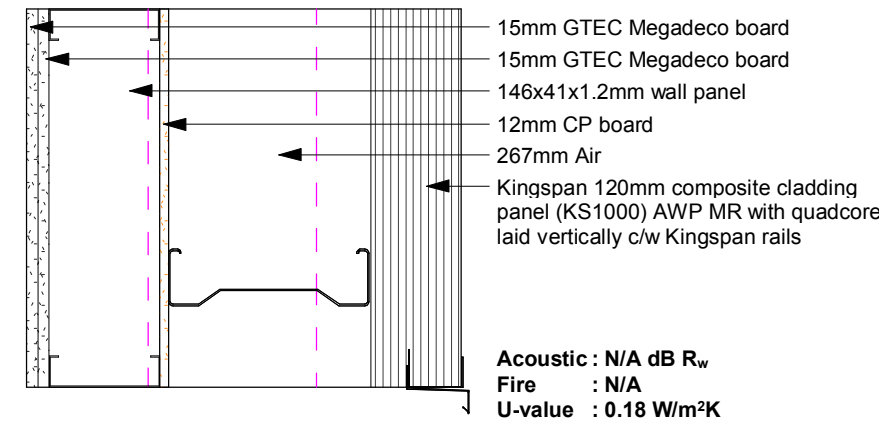
Wall Types (Traditional)

Wall Type - EW05

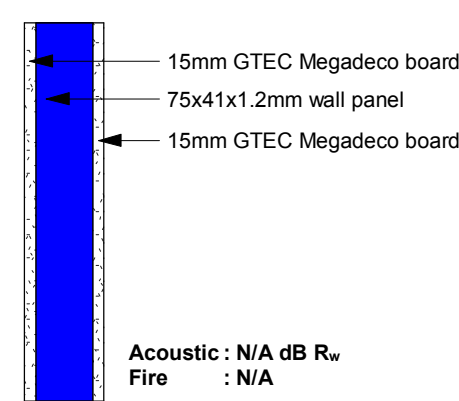


Wall class - Severe (corridors)
Wall class - Heavy (all other areas)

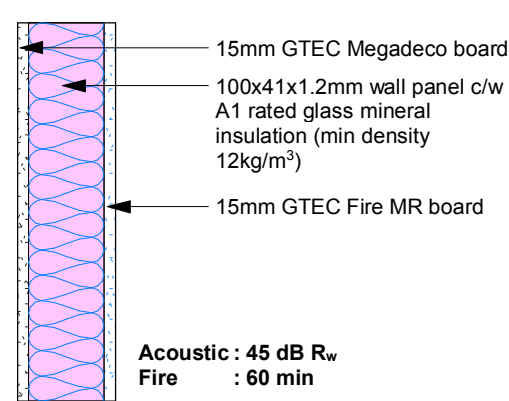
Wall Type - EW06



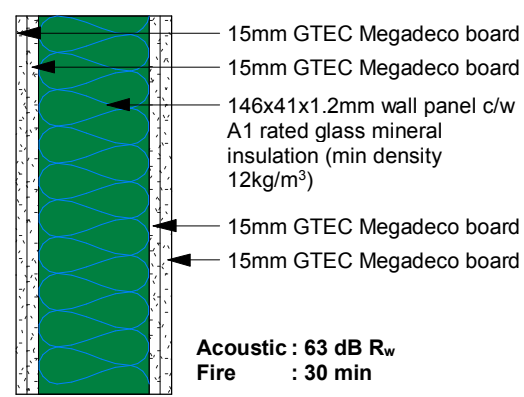
Wall Type - IW01



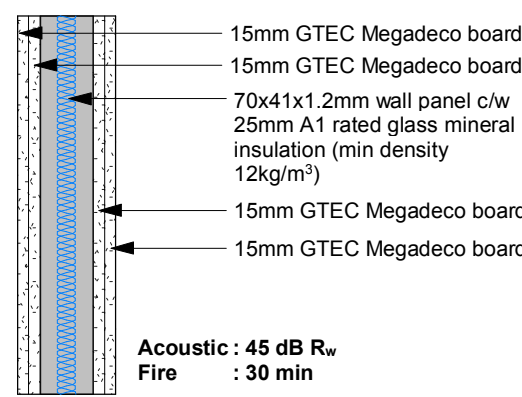
Wall Type - IW13



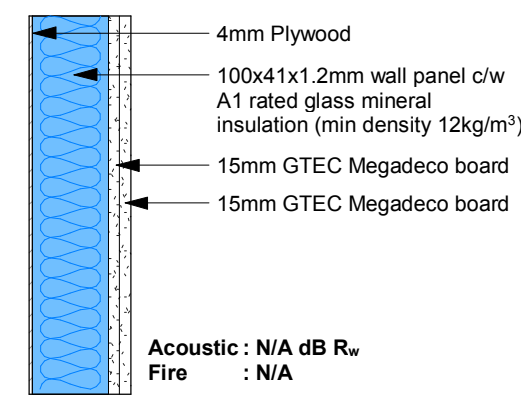
Wall Type - IW15



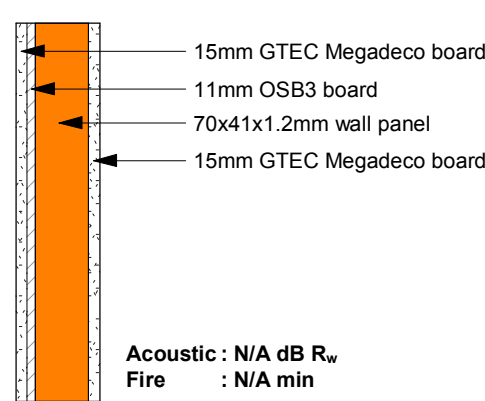
Wall Type - IW16



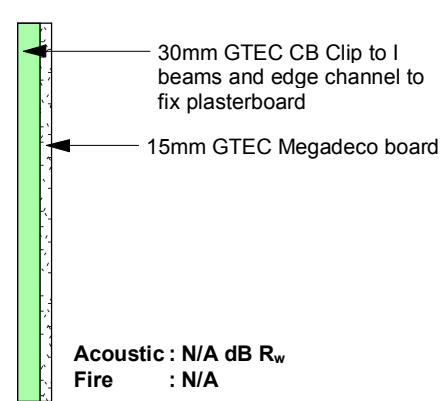
Wall Type - IW17



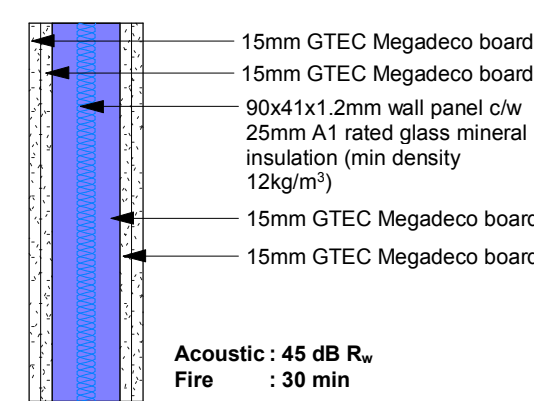
Wall Type - IW18



Wall Type - IW19



Wall Type - IW20



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NOTES:

1. All dimensions are taken from face of plasterboard at 1500mm AFFL to negate tolerance build ups associated with the stud & track panel design

C05	Final issue updated	08/10/20	JH	KC
C04	Final issue	14/09/20	JH	KC
C03	Layout revised to suit client requirement & dimensions included to assist setting-out.	01/06/20	DW	TD
C02	Blockwork size adjusted to 300mm.	08/01/20	EA	TD
C01	First Issue	16/12/19	EA	DW

REV	REASON FOR REVISION	DATE	BY	CHK
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CLIENT:

Caledonian

PROJECT REF:

Haygrove School

DESCRIPTION:

Traditional - Wall Compartmentation GA

DOCUMENT REFERENCE No:

136917 - CAL - MB - GF - DR - W - 25-0103

Project Orig Volume Level Type Role Class Numeric

SCALE @ A1: As indicated REV: C05

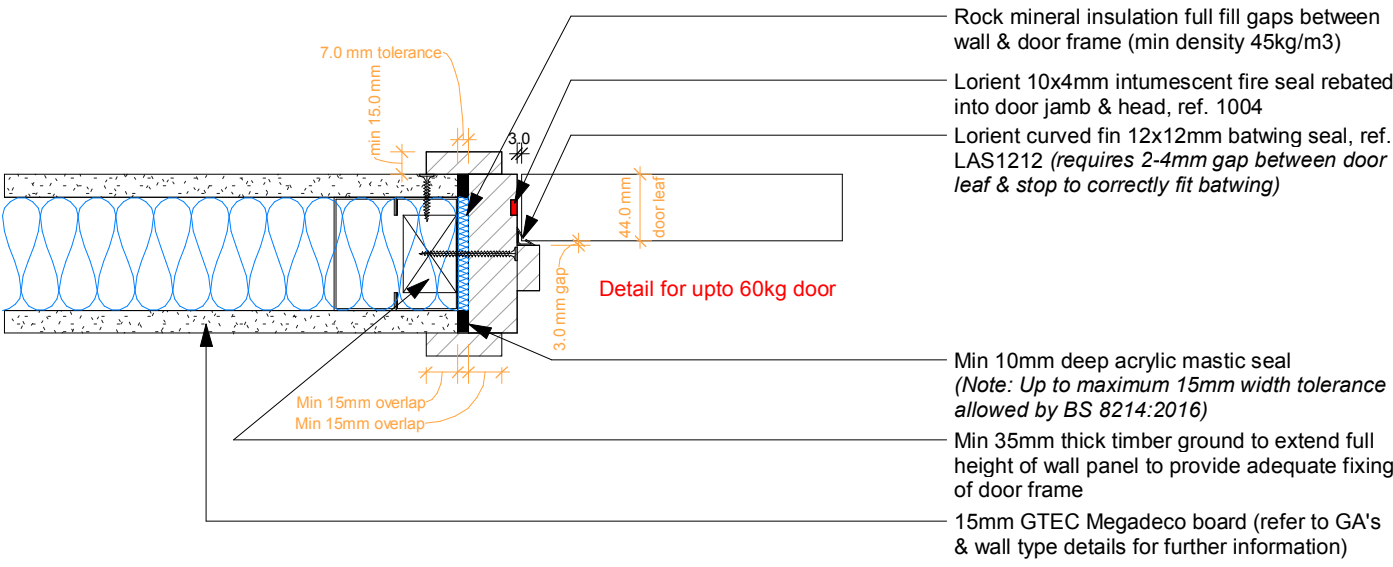
CONTRACT NUMBER: 136917 DATE: 22/09/20

INFORMATION STATUS: CONSTRUCTION

SUBCONTRACTOR COMPANY TRADE NAME SUBCONTRACTOR CONTRACT REF. No

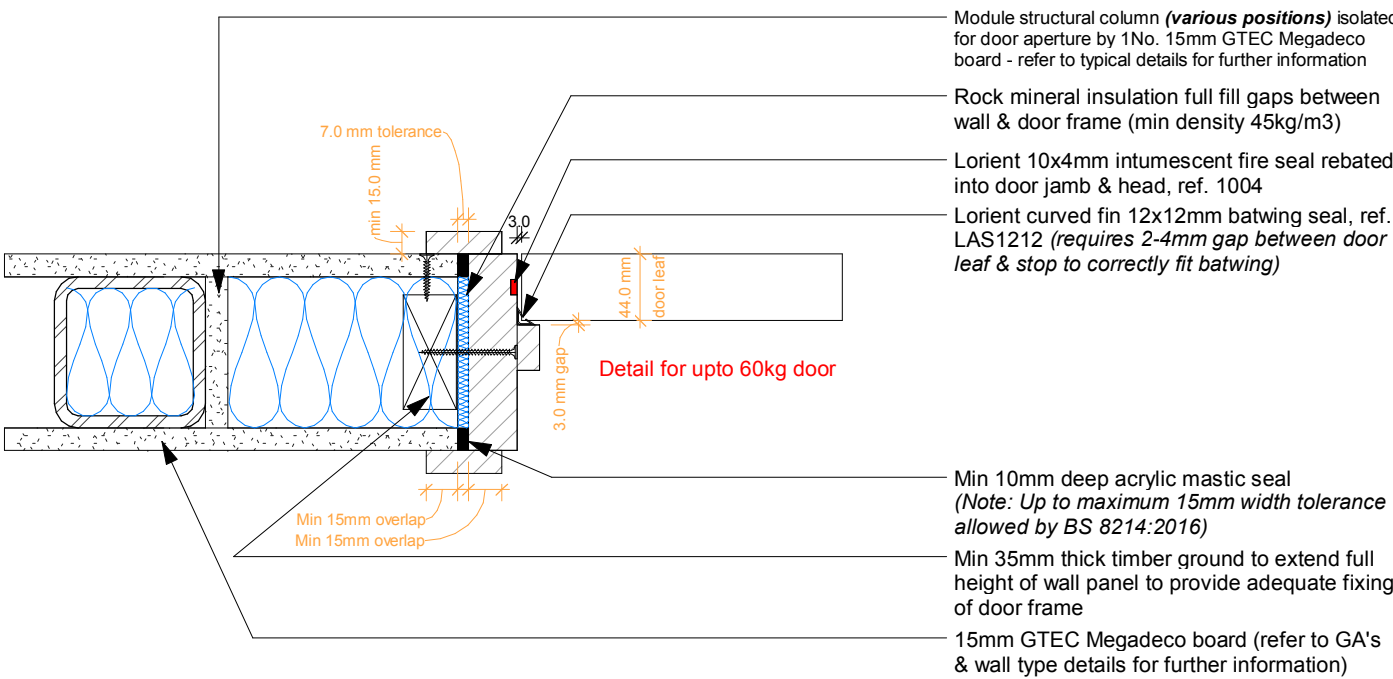
Typical FD30s Door Jamb - Non load bearing wall

NOTE: Certain fixings omitted for clarity



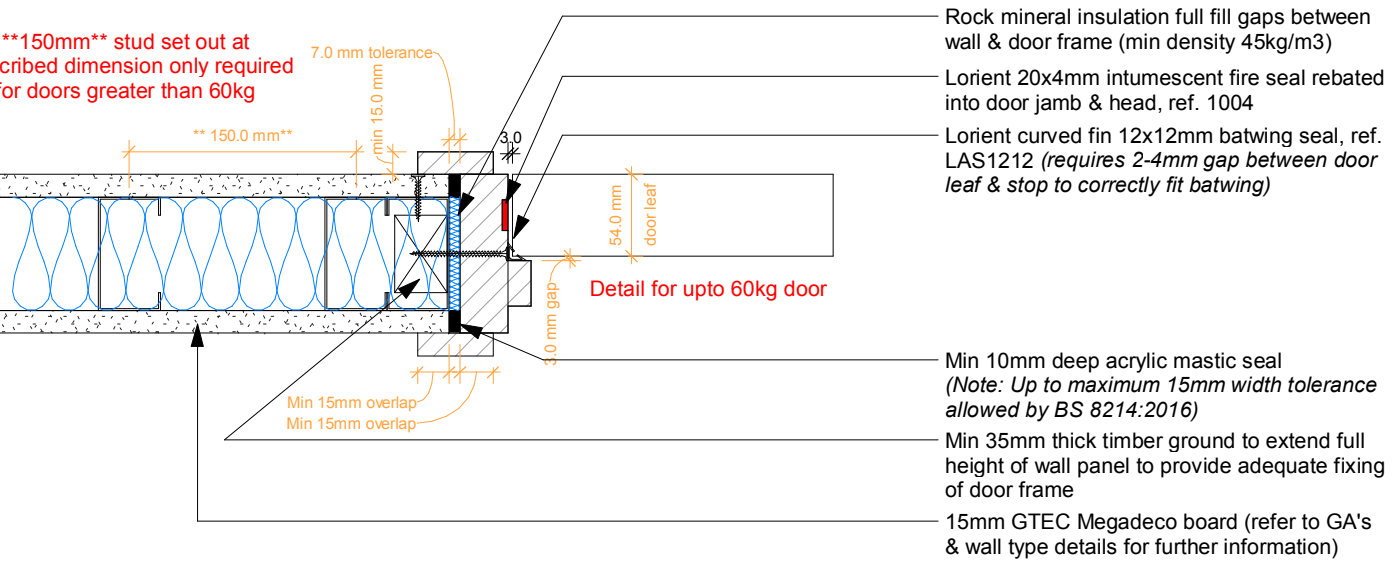
Door details to be coordinated with choosen manufacturer & associated fire test certificate requirements

Typical FD30s Door Jamb - Load bearing wall



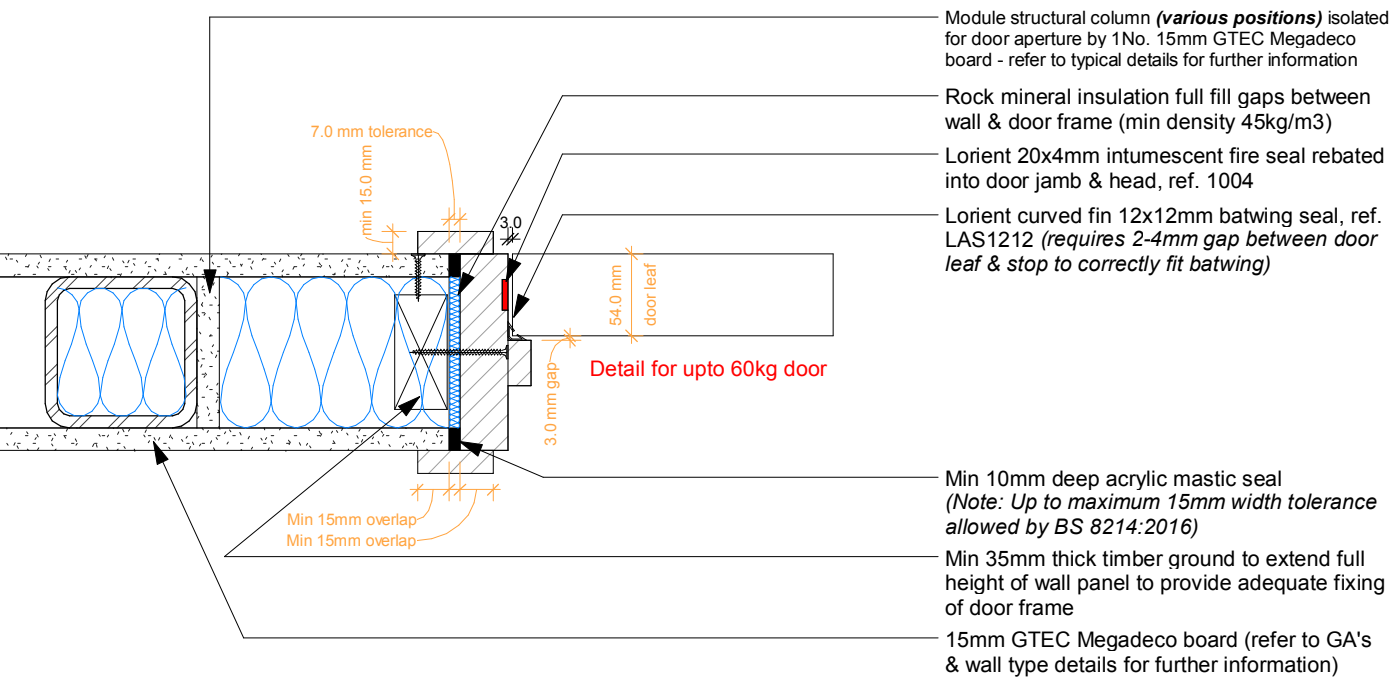
Typical FD60s Door Jamb - Non load bearing wall

NOTE: Certain fixings omitted for clarity



Door details to be coordinated with choosen manufacturer & associated fire test certificate requirements

Typical FD60s Door Jamb - Load bearing wall



Typical Installation Notes:

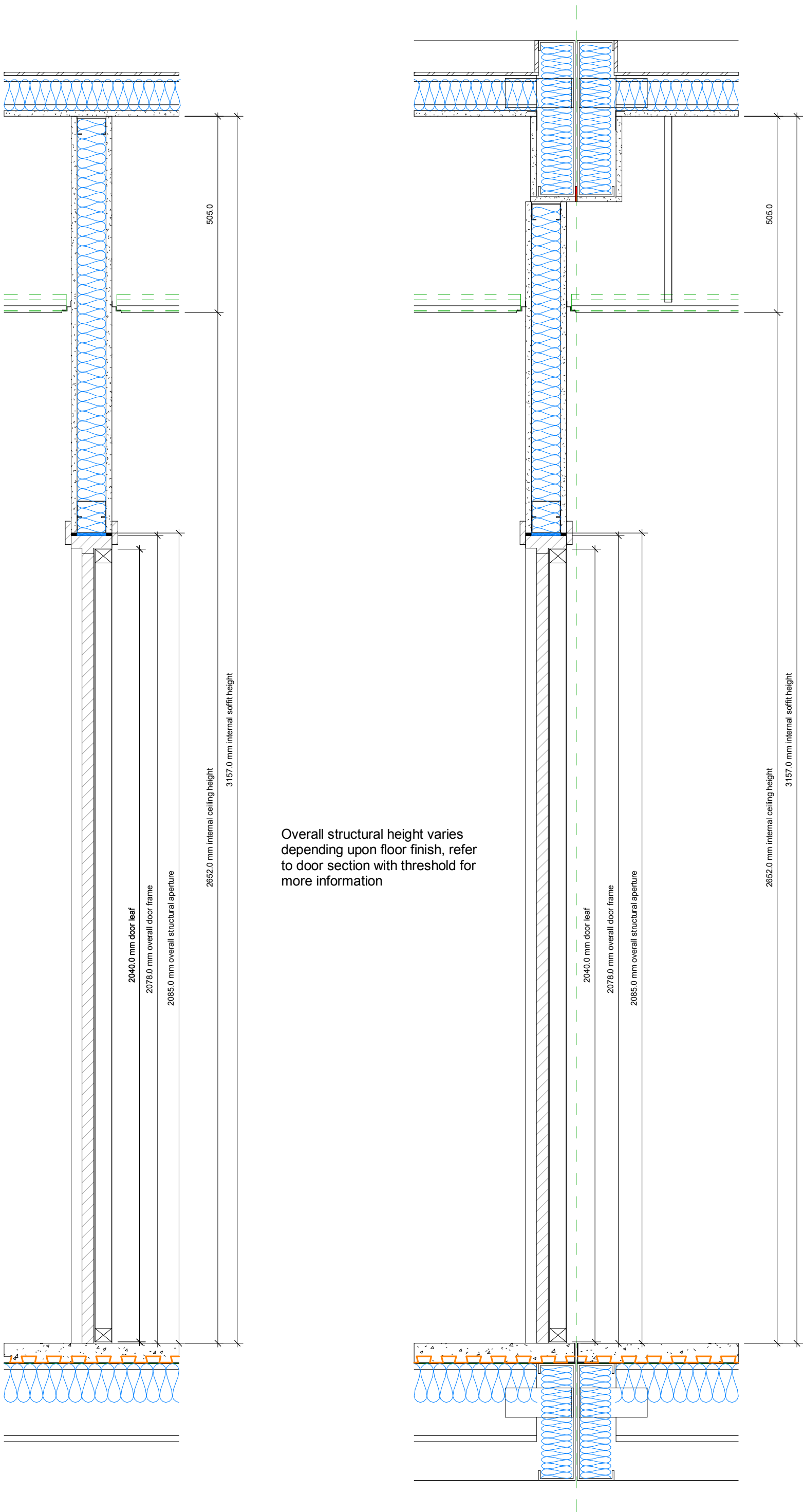
- Pilot holes to be predrilled into steel stud & associated timber infill
- Typical wood screw specification for door frame:
 - Reisser 5.0x100mm R2 cutter countersunk Pozi screw
- Door frame fixing should at least penetrate fully the timber infill
 - Maximum 150mm spacing from top & bottom
 - Maximum 600mm c/c's apart (unless MDF etc then maximum 500mm c/c's)
- Packing of door frame to wall stud should have the following attributes:
 - Durable, hard & stableNOTE: Trouser leg packers are considered best but could use offcuts of laminate, metal shims & plywood

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NOTES:

1 Typical door jamb details
1 : 5



2 Typical door section details
1 : 10

C02	Final Issue	14/09/20	JH	KC
C01	Construction Issue	20/03/19	DW	TC

REV	REASON FOR REVISION	DATE	BY	CHK
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CLIENT:

Caledonian

PROJECT REF:

Haygrove School

DESCRIPTION:

Typical Internal Door Details

DOCUMENT REFERENCE No:

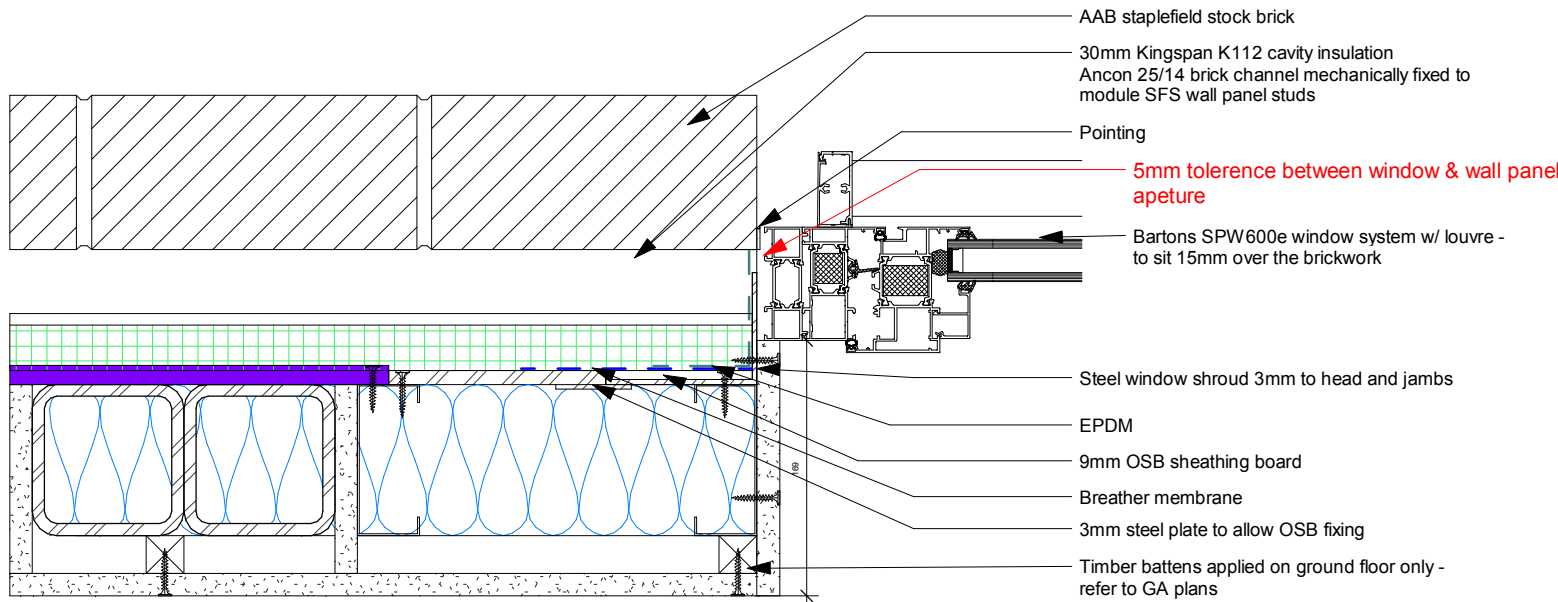
136917	CAL	MB	ZZ	DR	W	00-0507
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Project	Orig	Volume	Level	Type	Role	Class	Numeric
SCALE @ A1:	As indicated				REV: C02		
CONTRACT NUMBER:	136917				DATE:	10/02/2020	

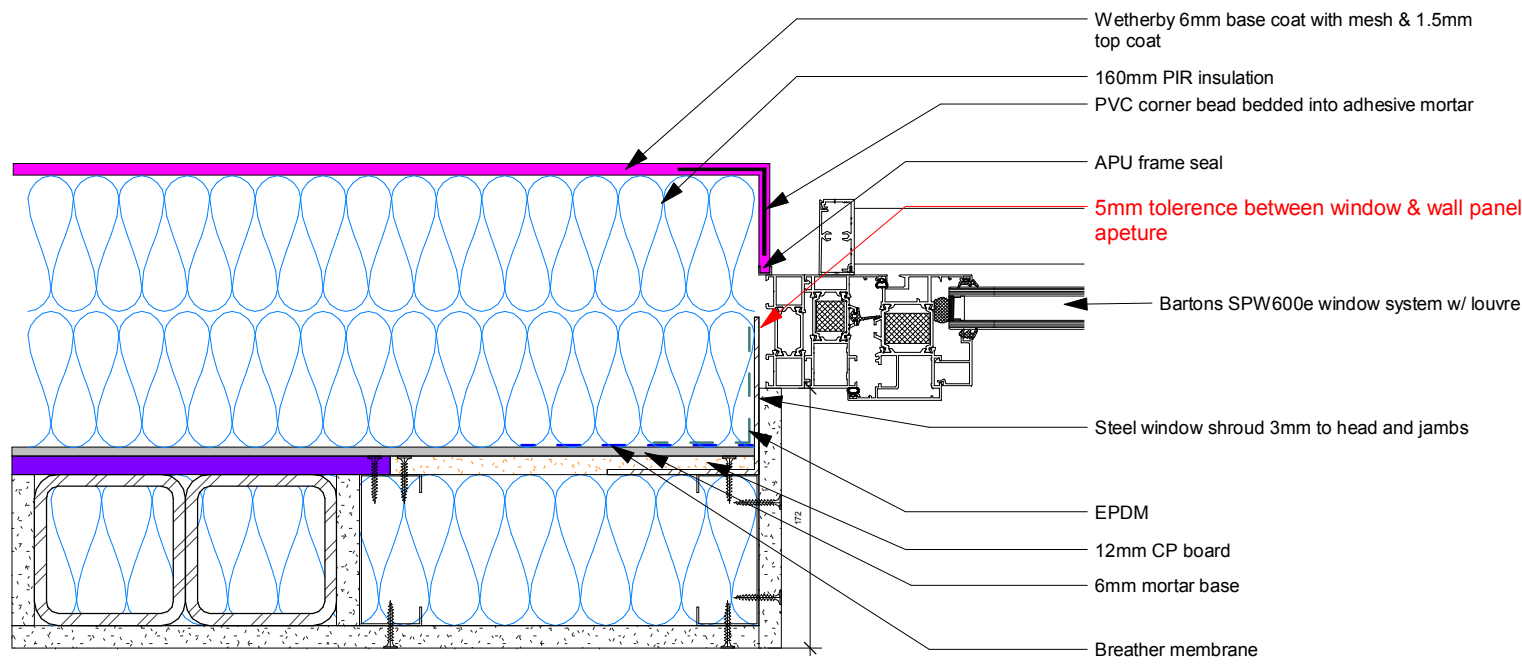
INFORMATION STATUS: FINAL ISSUE

SUBCONTRACTOR COMPANY TRADE NAME SUBCONTRACTOR CONTRACT REF. No

Typical External Window Jamb - Brickwork non load bearing wall

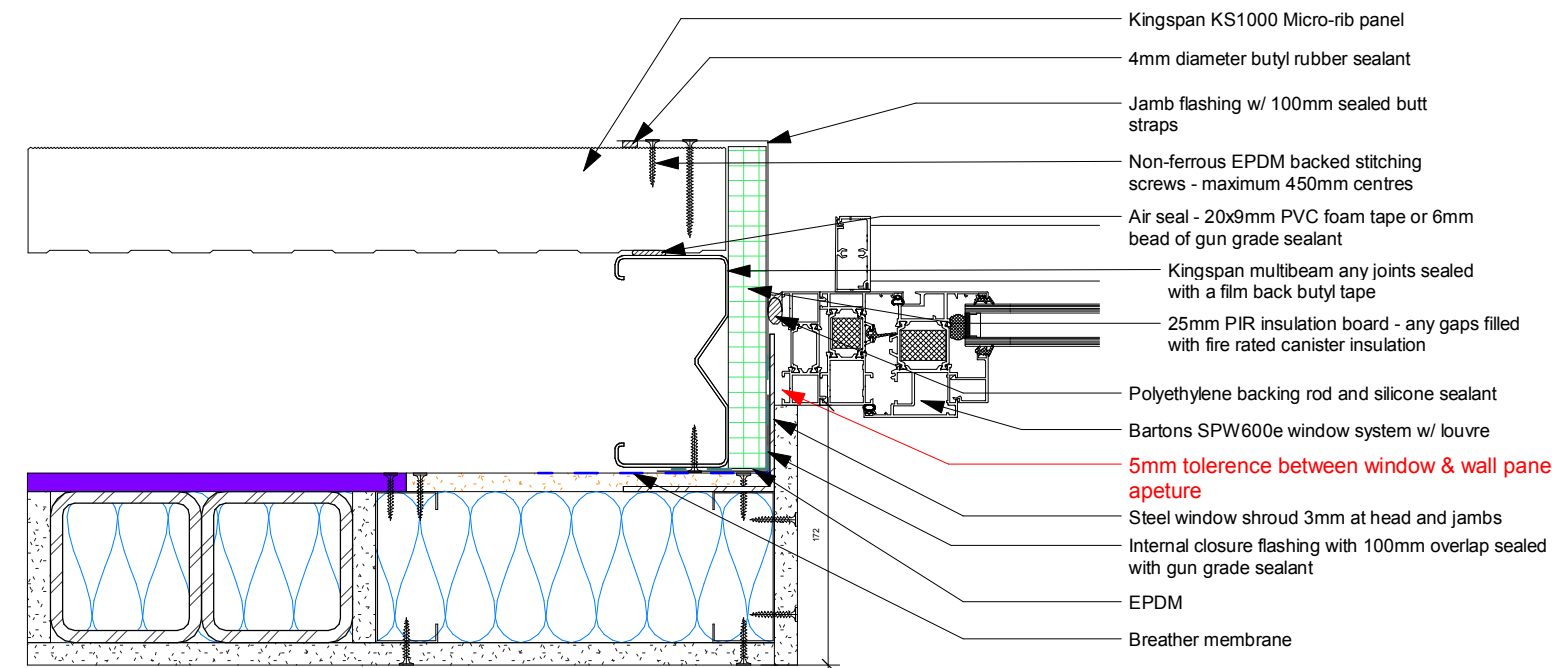


Typical External Window Jamb - Render non load bearing wall



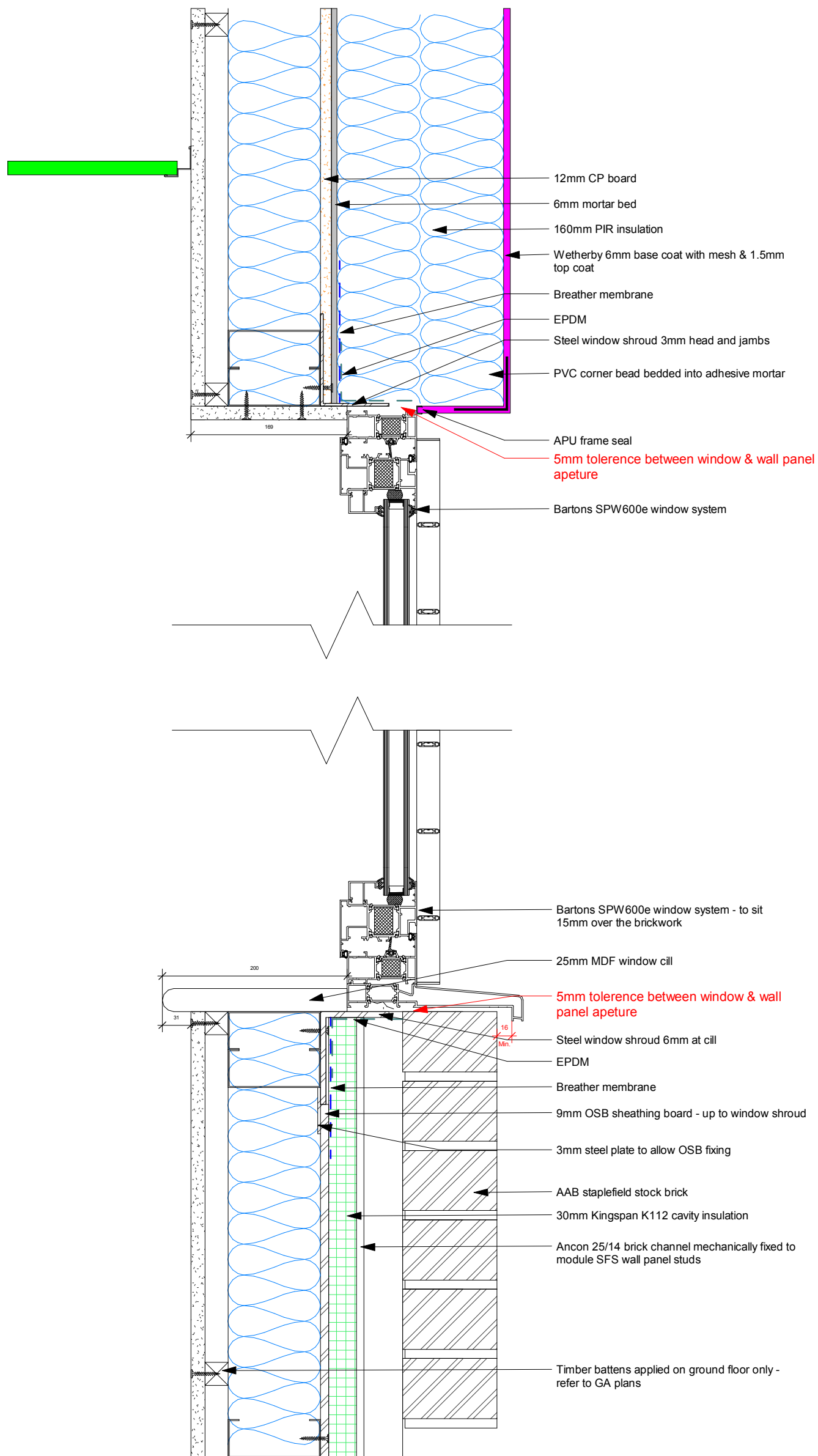
Typical External Window Jamb - Kingspan non load bearing wall

Note: Refer to manufacturers instructions and details.
Size of steel purlins TBC.

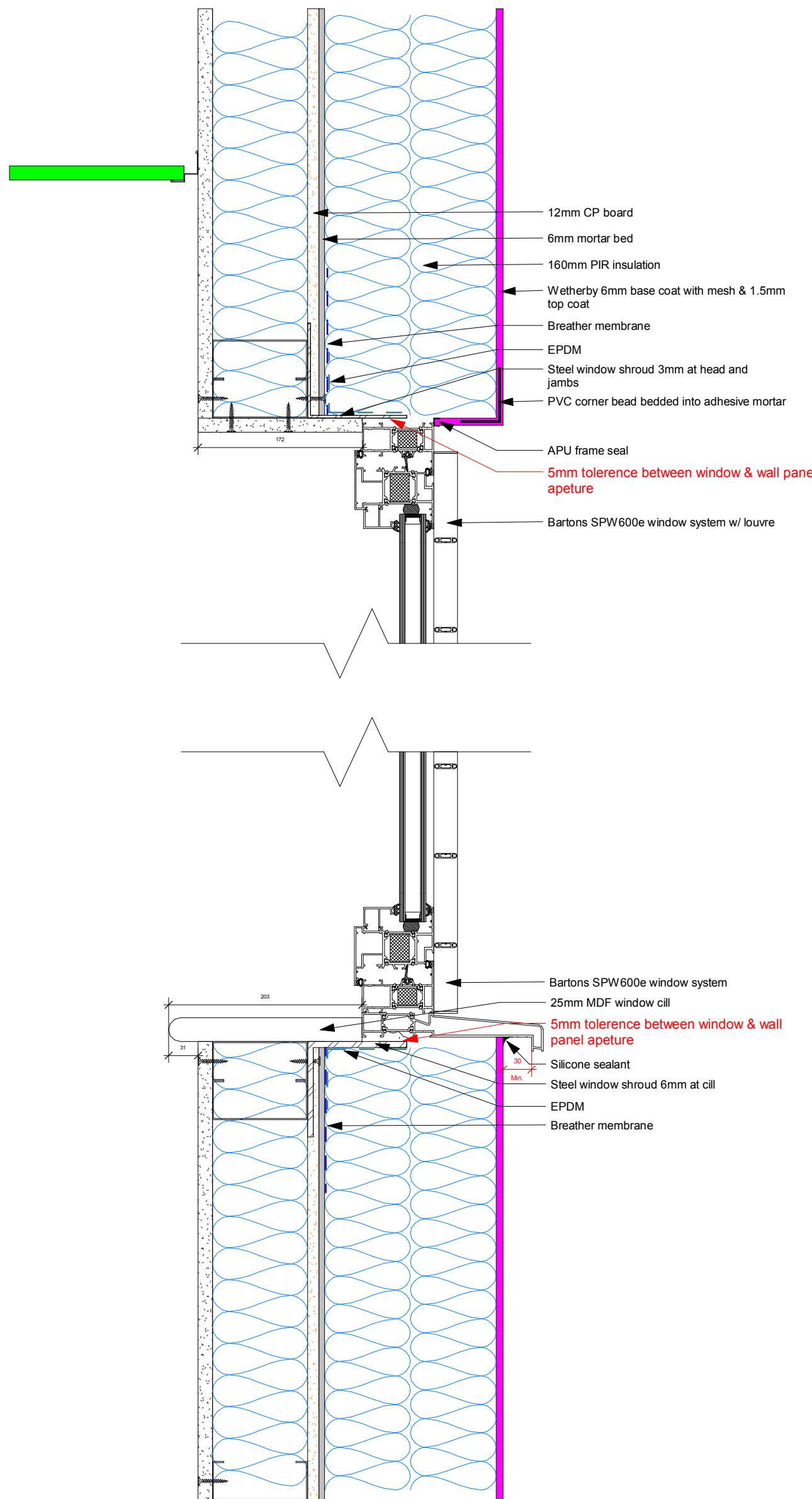


1 Typical Window Jamb Details
1 : 5

Typical External Brickwork cill & Render head section detail - Non load bearing wall

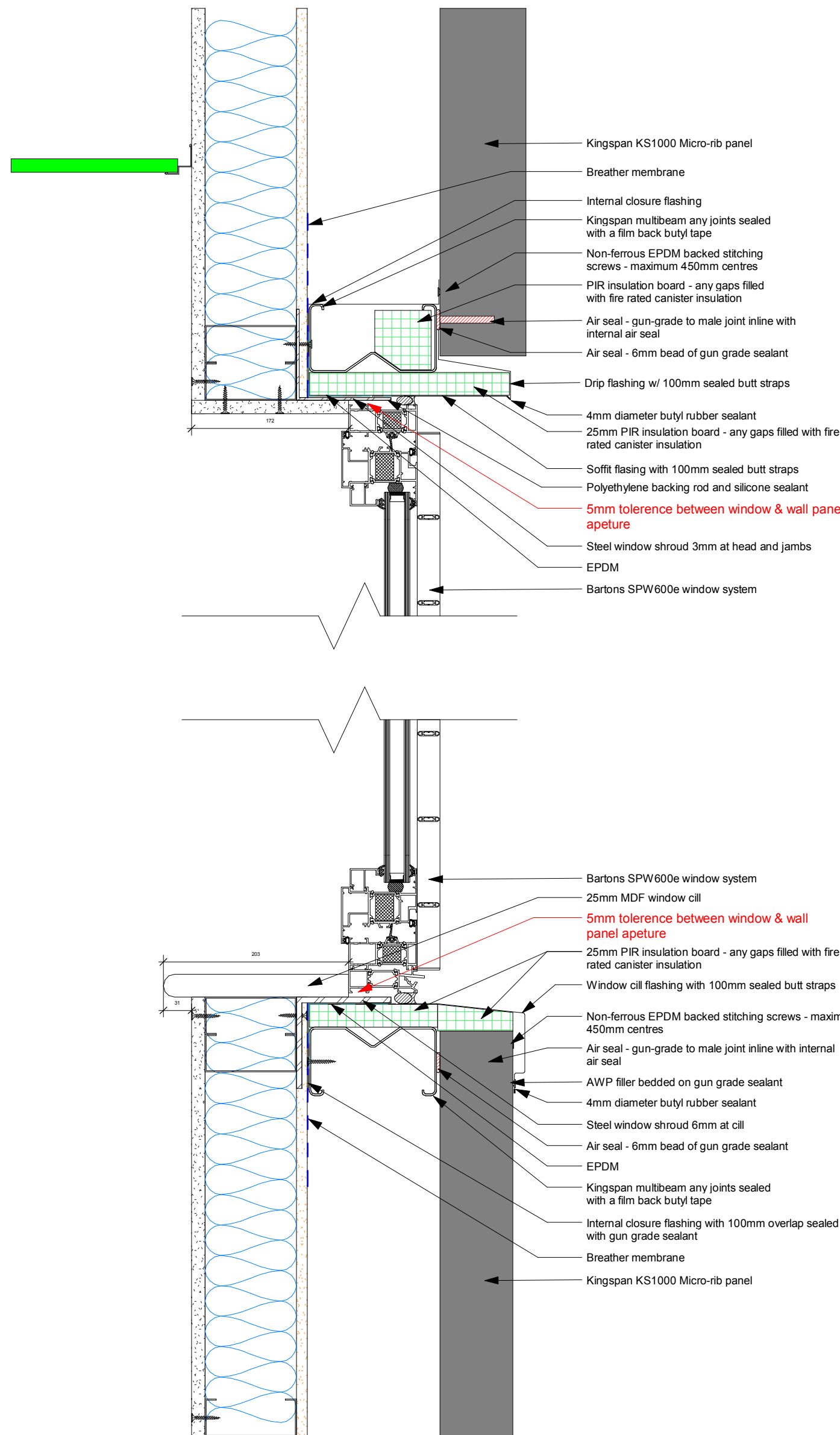


Typical External Render cill & Render head section detail - Non load bearing wall



Typical External Kingspan cill & Kingspan head section detail - Non load bearing wall

Note: Refer to manufacturers instructions and details.
Size of steel purlins TBC.



2 Typical Window Section Details
1 : 5

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NOTES:

C06	Final Issue	14/09/20	JH	KC
C05	Updated sheathing board around shroud detail	18/06/19	EA	TD
C04	Revised	05/06/19	EA	TD
C03	Revised	16/05/19	EA	TC
C02	Revised to building updates	09/05/19	EA	TC
C01	Revised to comments	12/04/19	EA	TC
P2	Revised to comments	26/03/19	EA	TC
P1	First Issue	26/03/19	DW	TC

REV	REASON FOR REVISION	DATE	BY	CHK
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CLIENT:

Caledonian

PROJECT REF:

Haygrove School

DESCRIPTION:

Typical Window Details

DOCUMENT REFERENCE No:

136917 - CAL - MB - XX - DR - W - 00-0606

Project Orig Volume Level Type Role Class Numeric

SCALE @ A1: 1 : 5 REV: C06

CONTRACT NUMBER: 136917 DATE: 10/02/2020

INFORMATION STATUS: FINAL ISSUE

SUBCONTRACTOR COMPANY TRADE NAME SUBCONTRACTOR CONTRACT REF. No