

Illawarra Flame

UNIVERSITY OF WOLLONGONG
SOLAR DECATHLON 2013



TEAM UOW AUSTRALIA
Illawarra Flame

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Client:
P.R China National Energy Administration
Solar Decathlon China 2013



Amendments

Rev.	Description	Date
P1	Preliminary Issue 1	31.8.12
C1	Schematic Design Issue	21.9.12
C2	Schematic Design Re-Issue	30.1.13
C3	Final Submission	15.3.13
C4	As Built Issue	03.6.13

Lot Number #303

Drawn By: RYAN DOBBS

Checked By: SCOTT REDWOOD

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Date: 03/06/13

Scale: @ A3

COVER

G-000



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Amendments

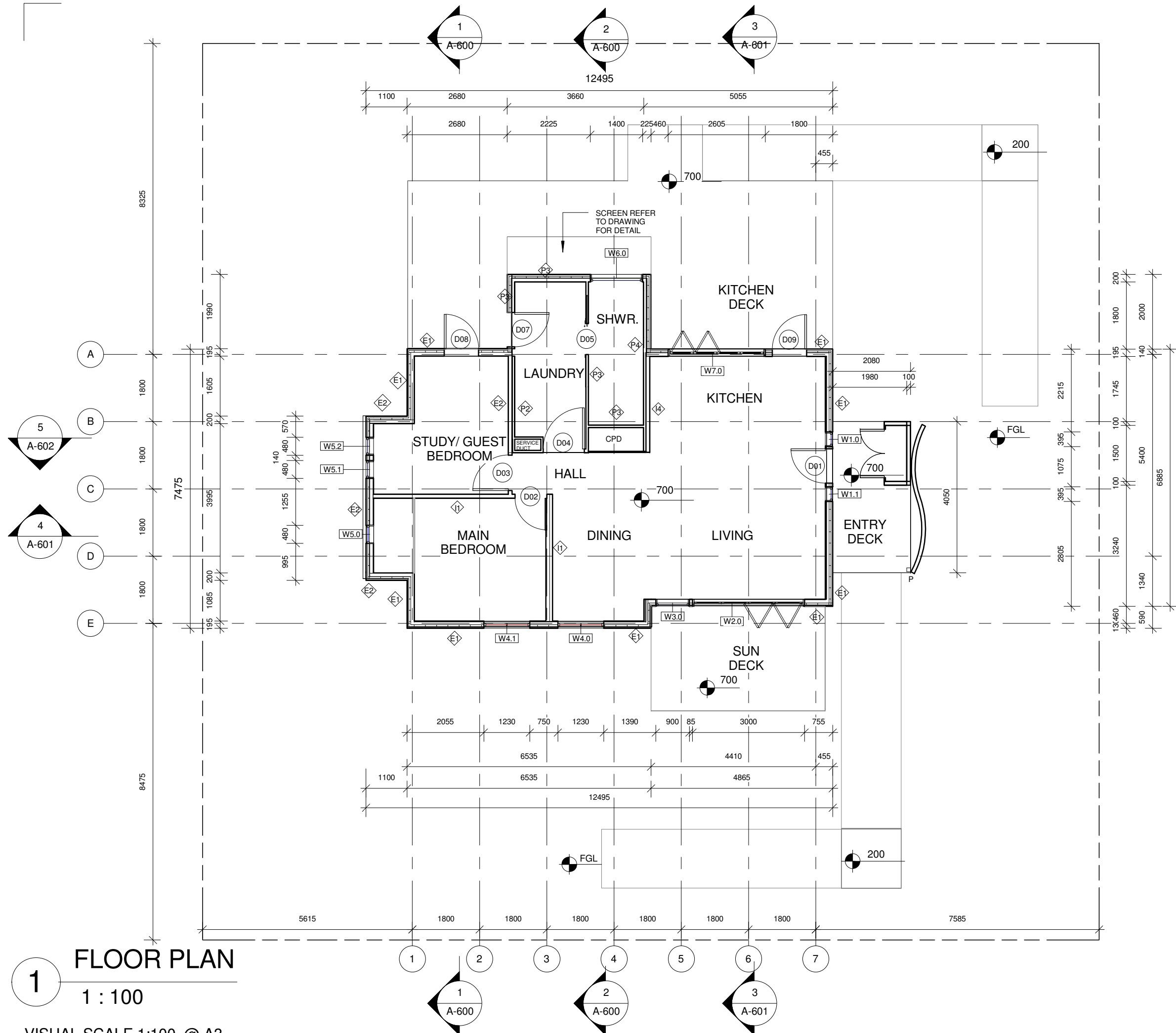
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FLOOR PLAN



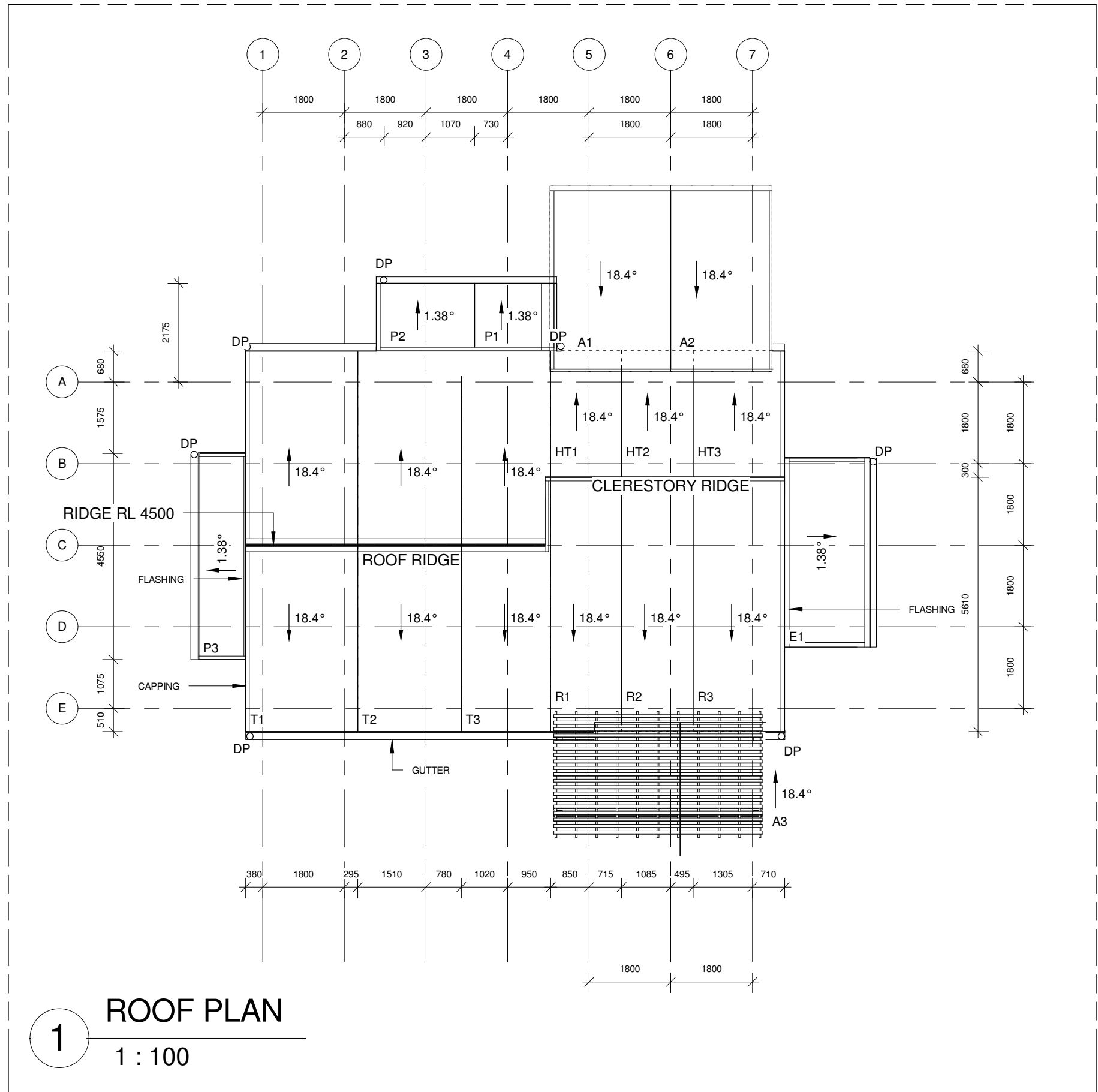
A-200



FLOOR PLAN

1
1 : 100





ROOF SECTION	ANNOTATION
TRUSS 1	T1
TRUSS 2	T2
TRUSS 3	T3
HALF TRUSS 1	HT1
HALF TRUSS 2	HT2
HALF TRUSS 3	HT3
RAKE ROOF 1	R1
RAKE ROOF 2	R2
RAKE ROOF 3	R3
POD ROOF 1	P1
POD ROOF 2	P2
POD ROOF 3	P3
AWNING ROOF 1	A1
AWNING ROOF 2	A2
AWNING ROOF 3	A3
ENTRY ROOF	E1



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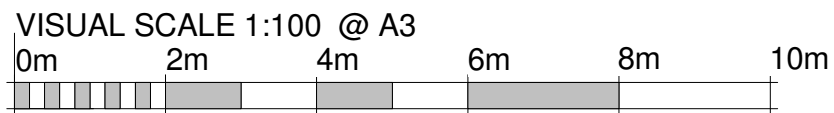
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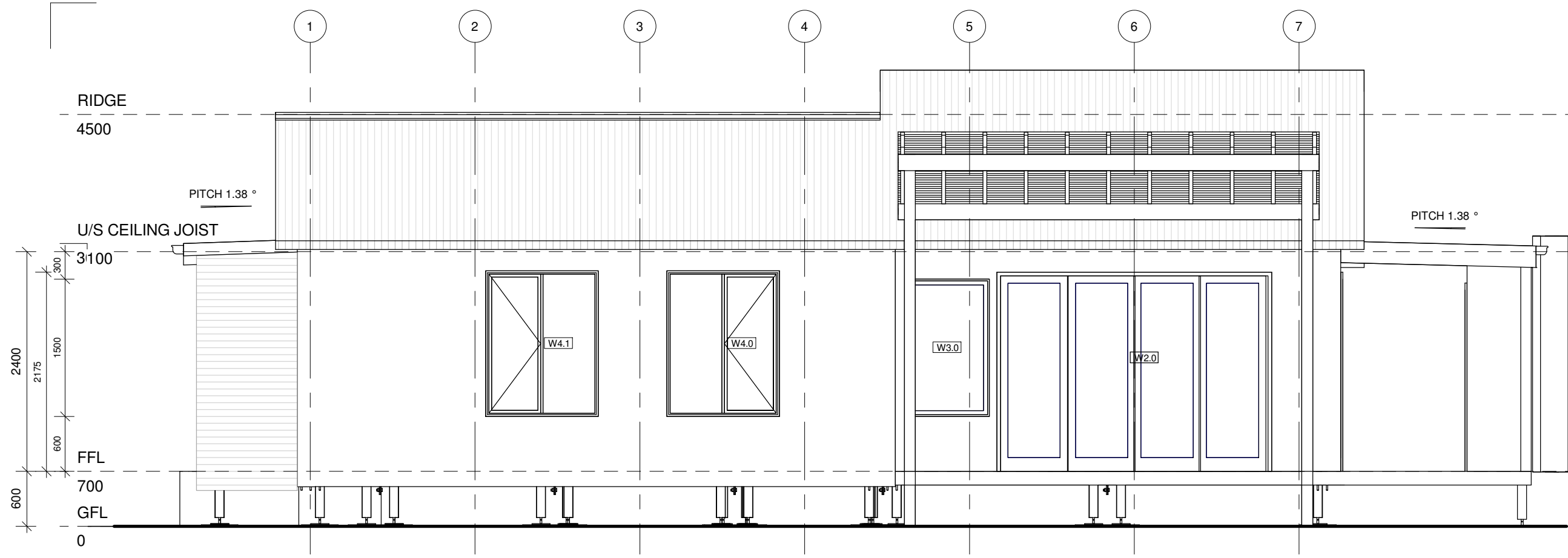
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ROOF PLAN

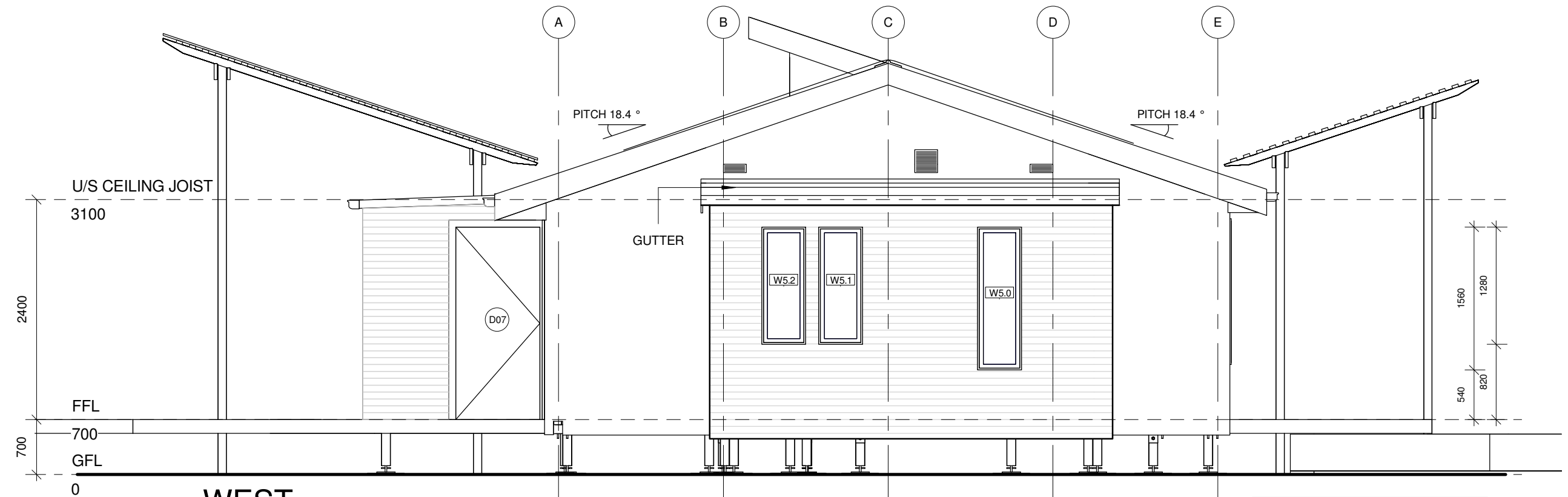


A-400

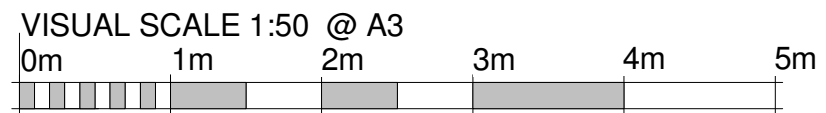




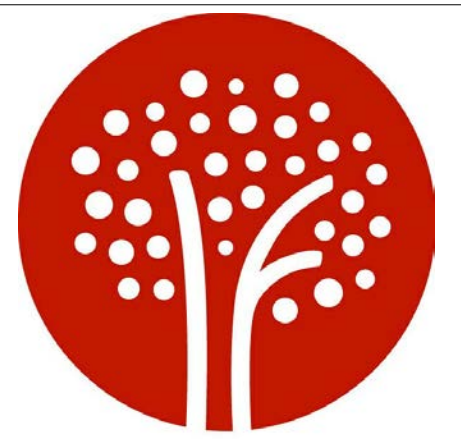
3 SOUTH
1 : 50



4 WEST
1 : 50



LEGEND	
(D0#)	DOOR REFERENCE TAG
[W#]	WINDOW REFERENCE TAG



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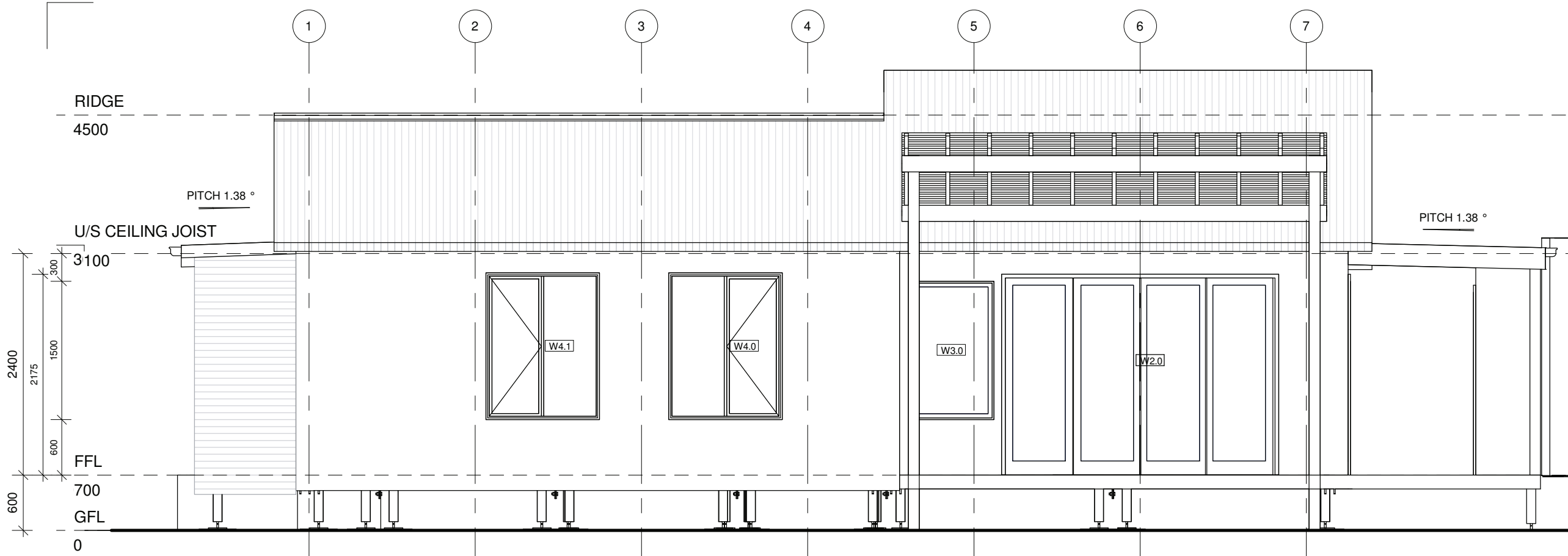


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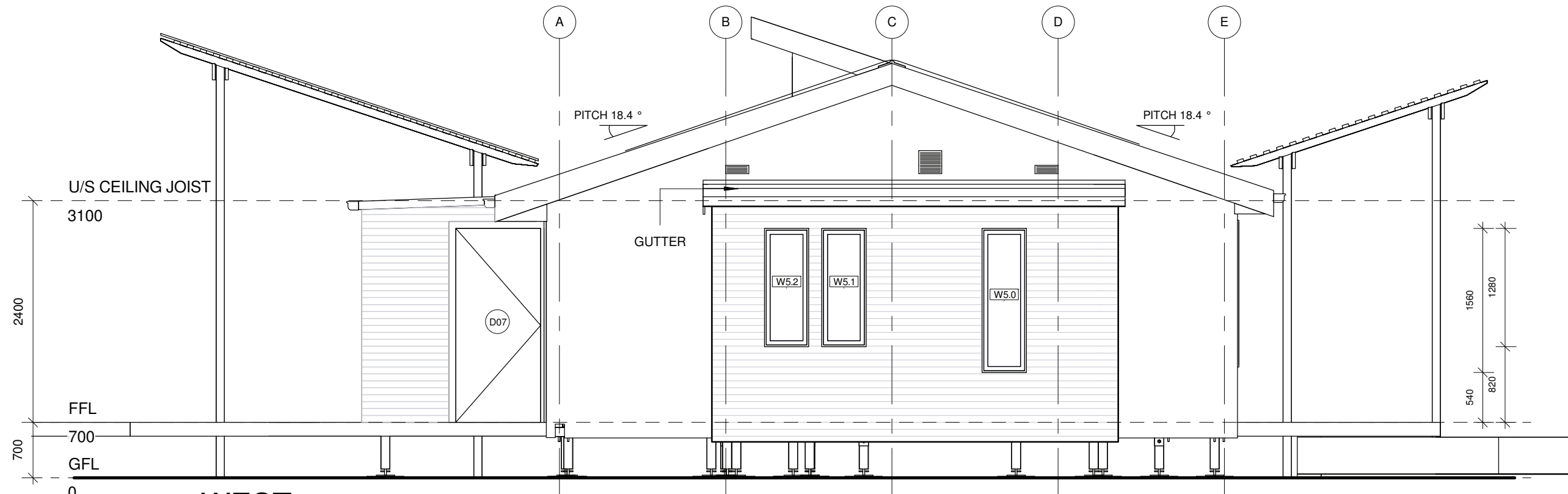
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BUILDING ELEVATIONS

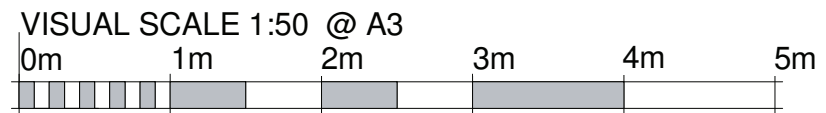
A-501



3 SOUTH
1 : 50



4 WEST
1 : 50



LEGEND	
(D0#)	DOOR REFERENCE TAG
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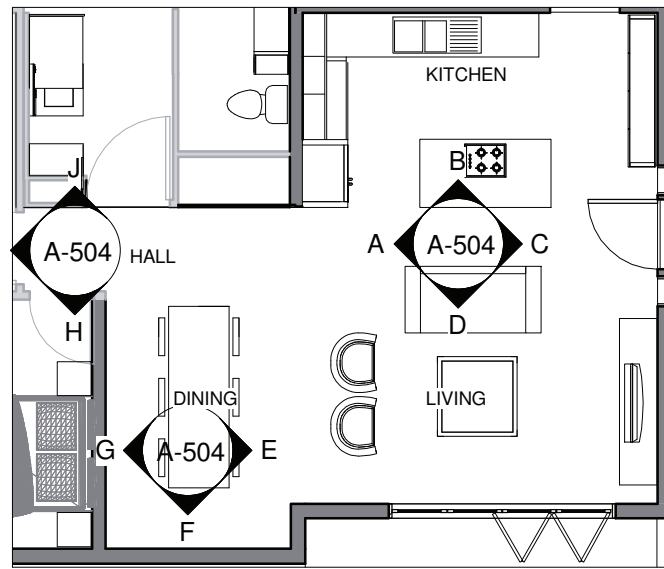


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BUILDING ELEVATIONS

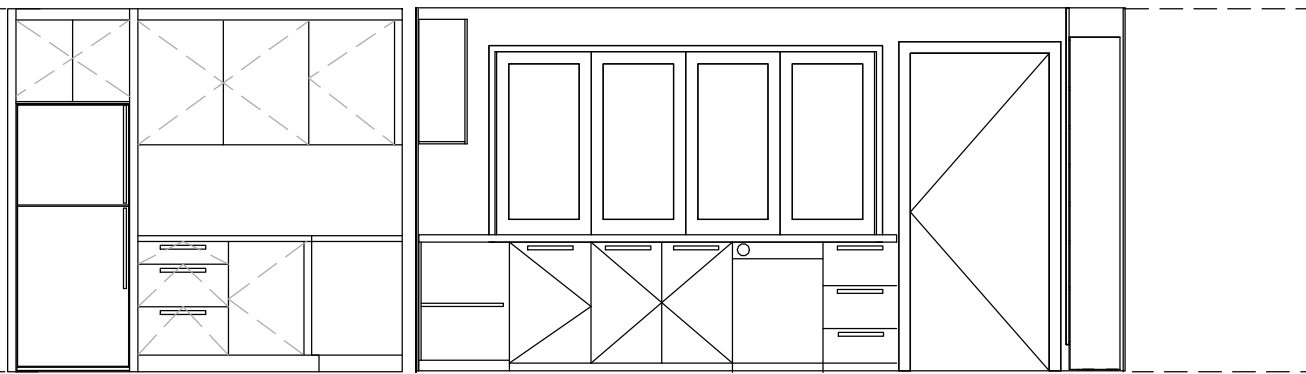
A-501



PLAN
1:100

R.C LEVEL
3051

F.F LEVEL
700

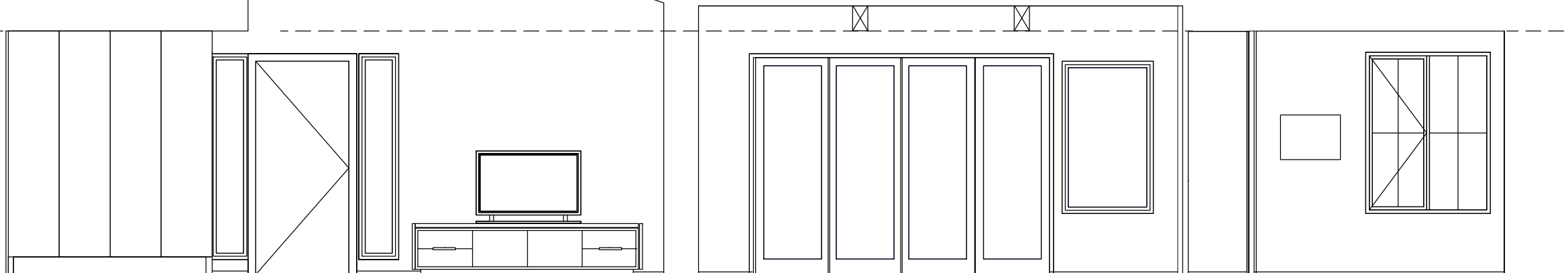


KITCHEN A

KITCHEN B

R.C LEVEL
3051

F.F LEVEL
700



KITCHEN E

LIVING C

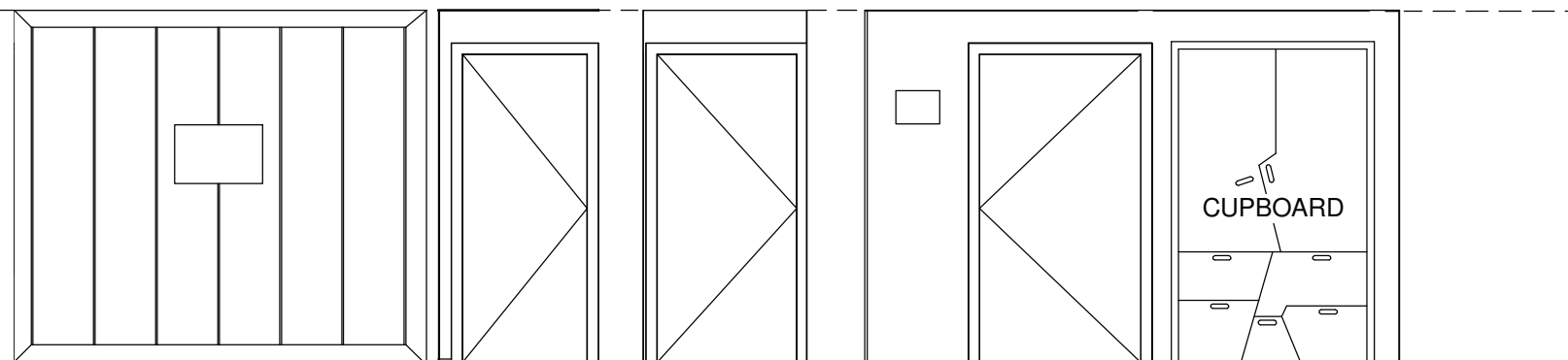
LIVING D

DINING E

DINING F

R.C LEVEL
3501

F.F LEVEL
700



DINING G

HALL C

HALL I

HALL J

VISUAL SCALE 1:50 @ A3



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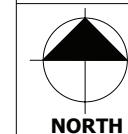
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Scale: As indicated @ A3

**INTERIOR
ELEVATION**



A-504



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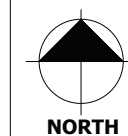
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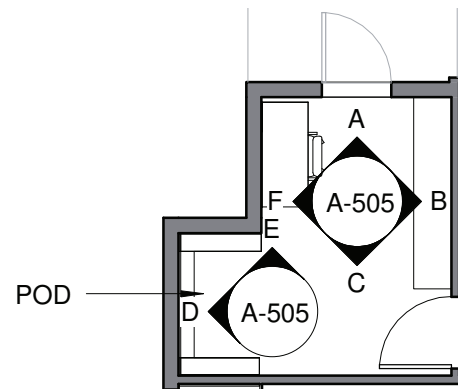
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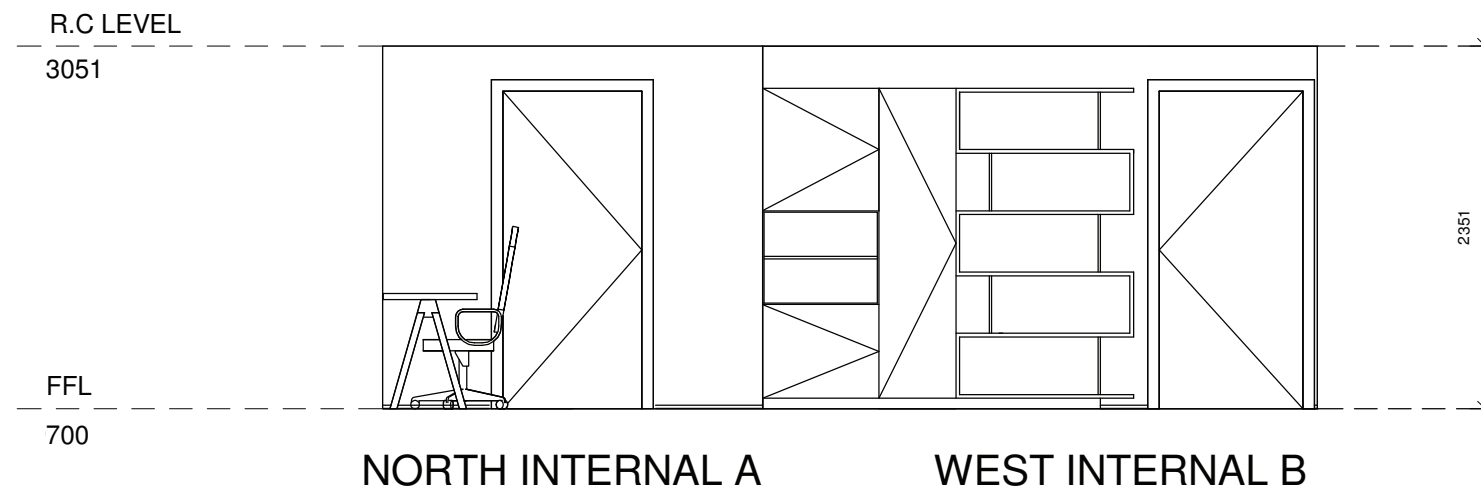
**INTERIOR
ELEVATION**



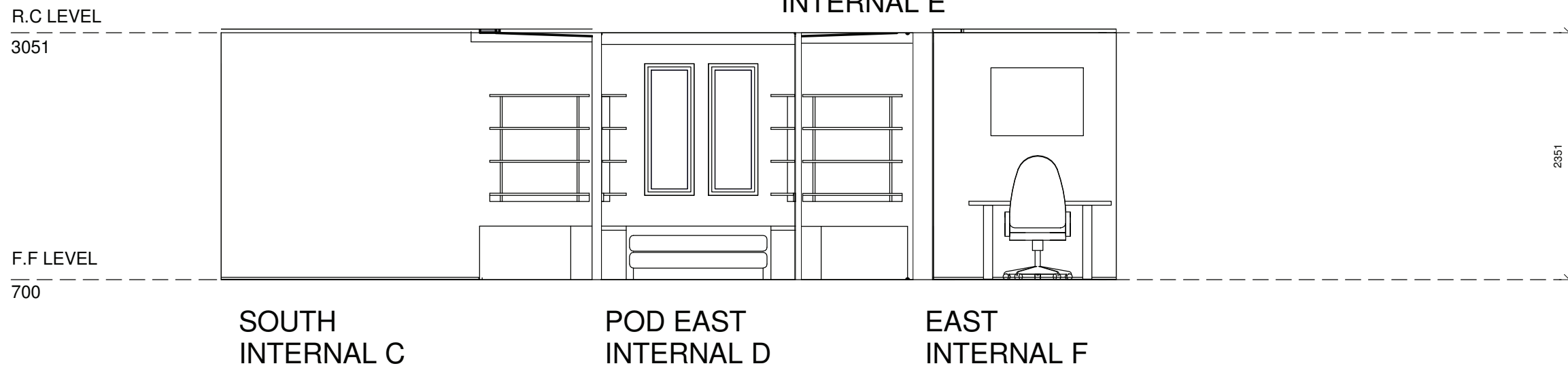
A-505



PLAN 1:100

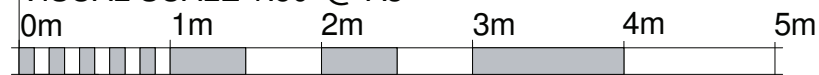


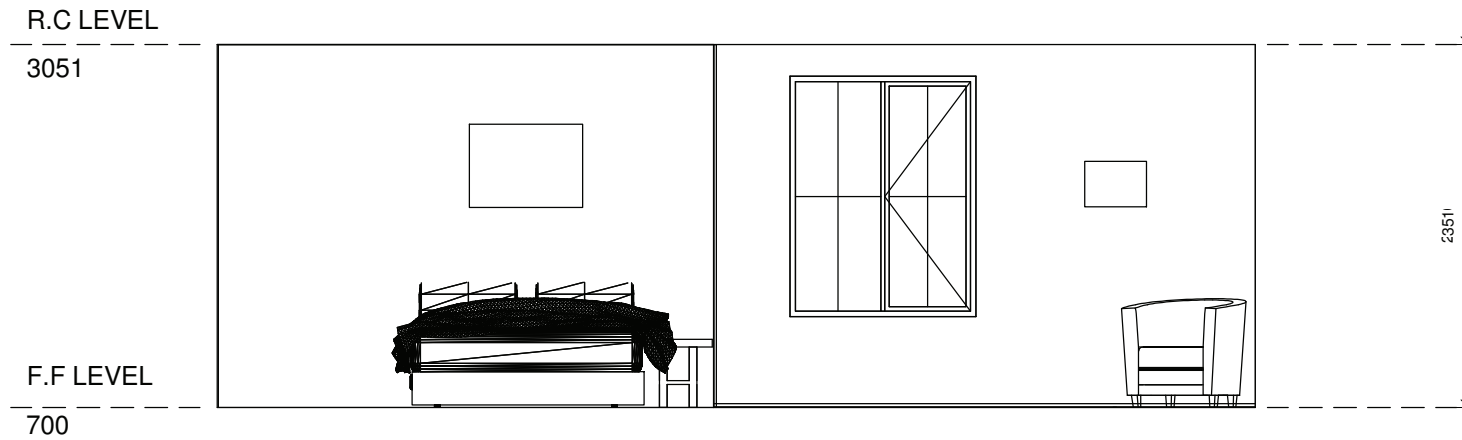
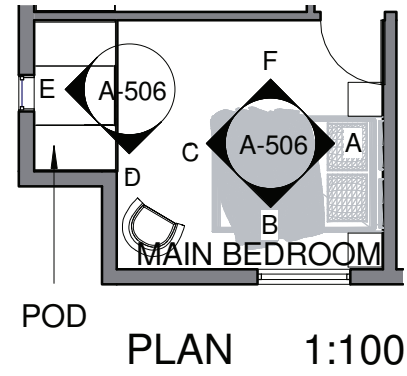
**POD NORTH
INTERNAL E**



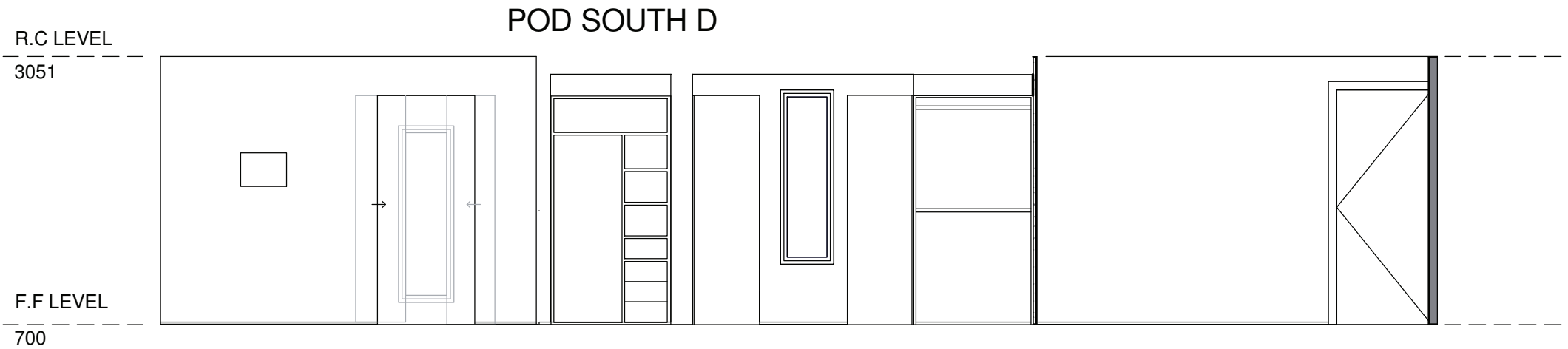
STUDY/ GUEST BEDROOM

VISUAL SCALE 1:50 @ A3



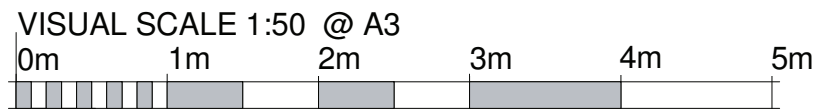


WEST INTERNAL A SOUTH INTERNAL B



EAST INTERNAL C POD EAST E NORTH INTERNAL F

MAIN BEDROOM INTERNAL ELEVATIONS



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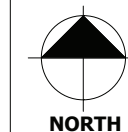
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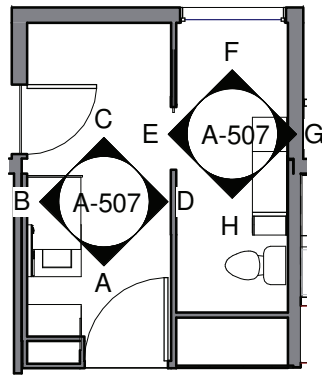
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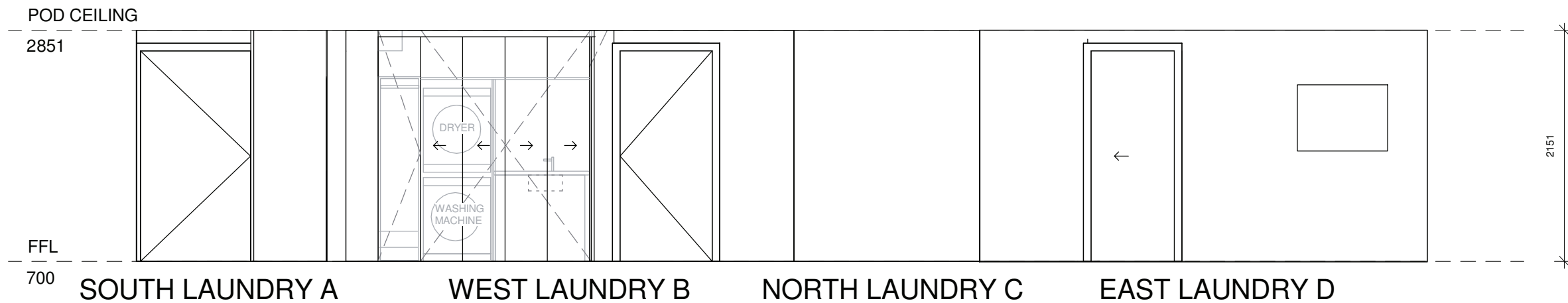
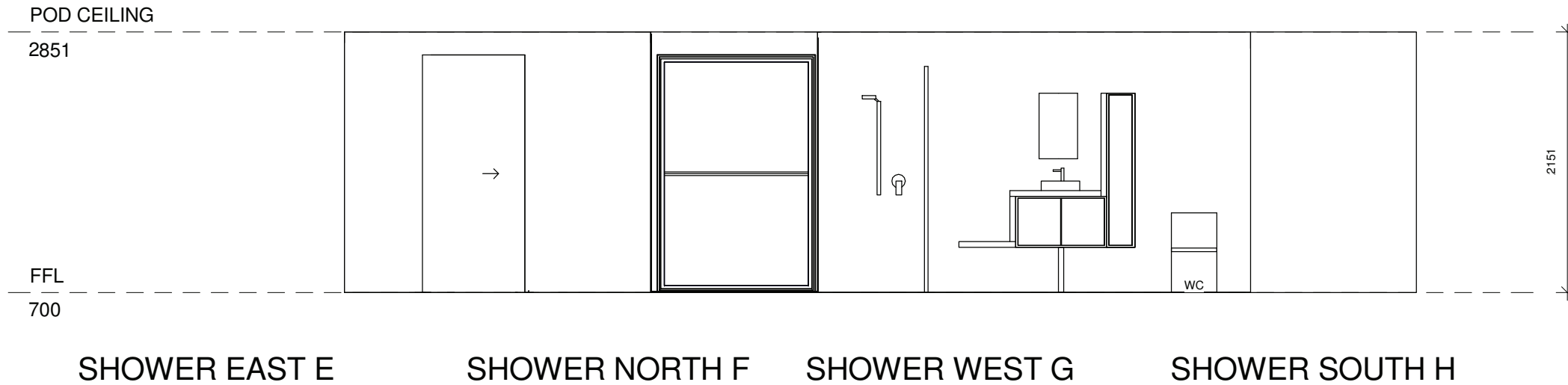
INTERIOR ELEVATION



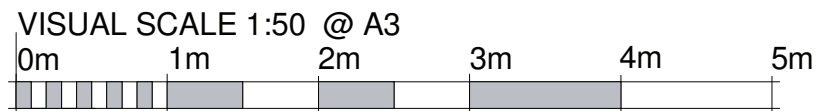
A-506



PLAN 1:100



POD INTERNAL ELEVATIONS



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INTERIOR ELEVATION



A-507



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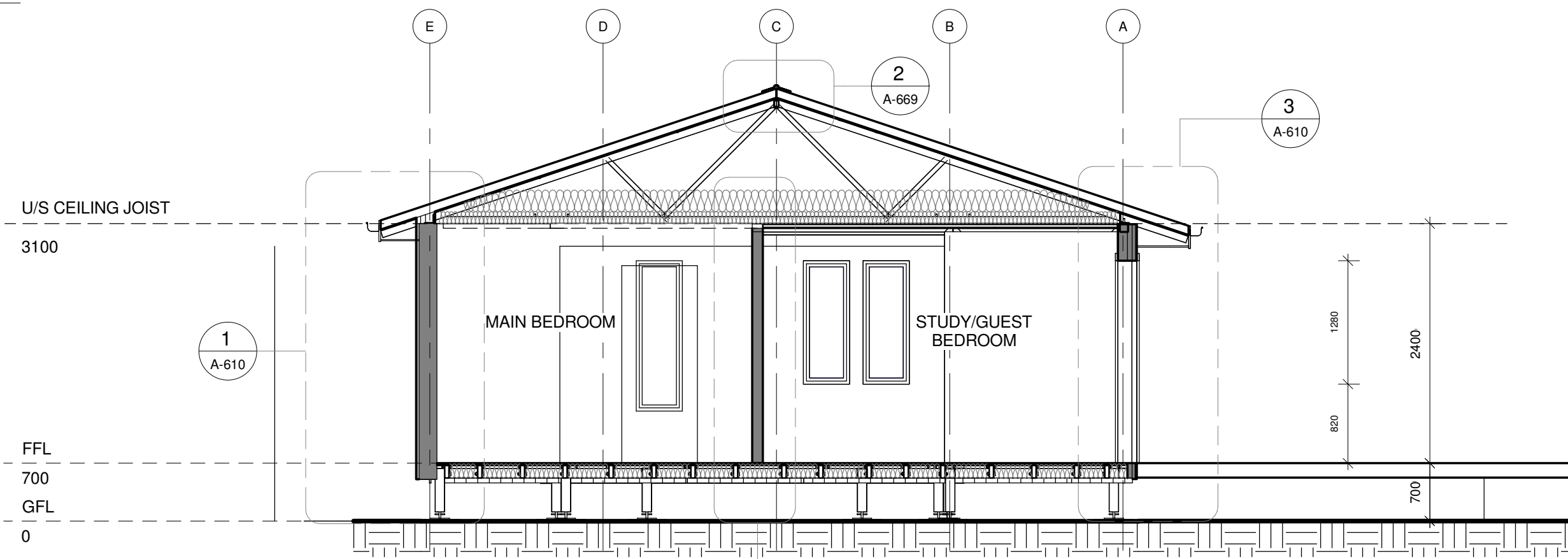
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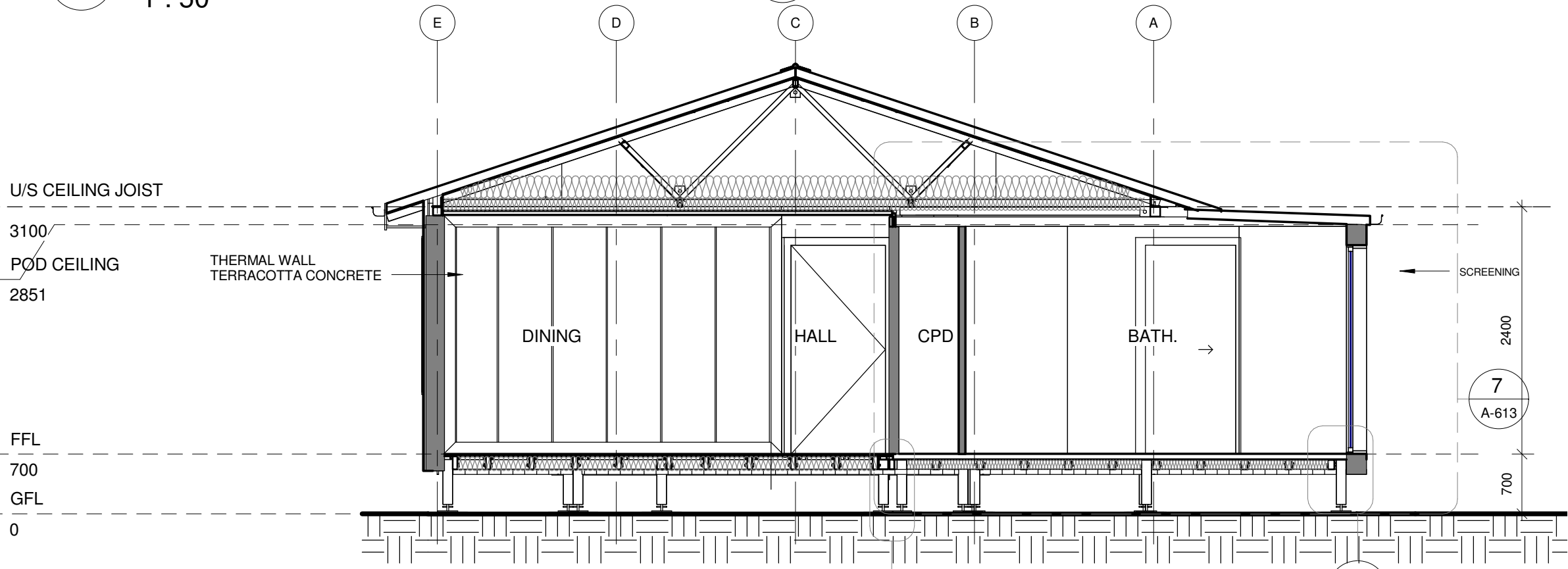
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SECTIONS

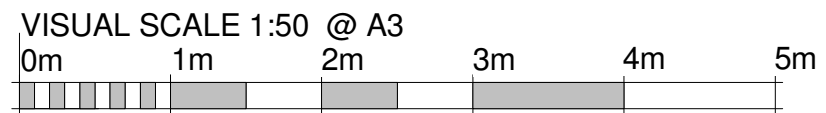
A-600



SECTION 1
1 : 50



SECTION 2
1 : 50





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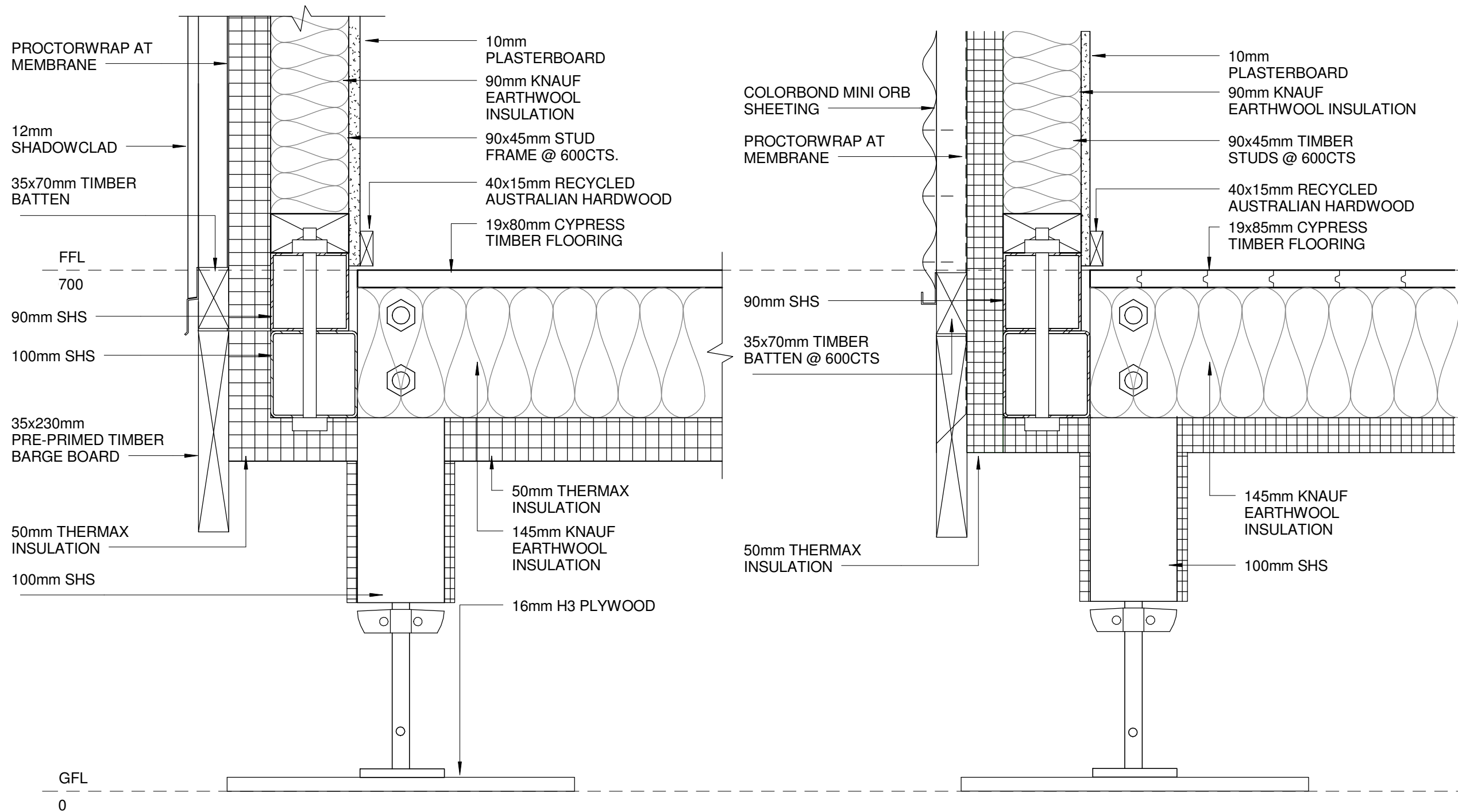
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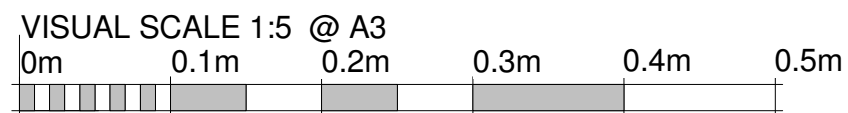
**BUILDING
DETAILS**

A-650



1 FLOOR DETAIL 1
A-600 1 : 5

2 FLOOR DETAIL 2
A-602 1 : 5





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Checked By: SCOTT REDWOOD

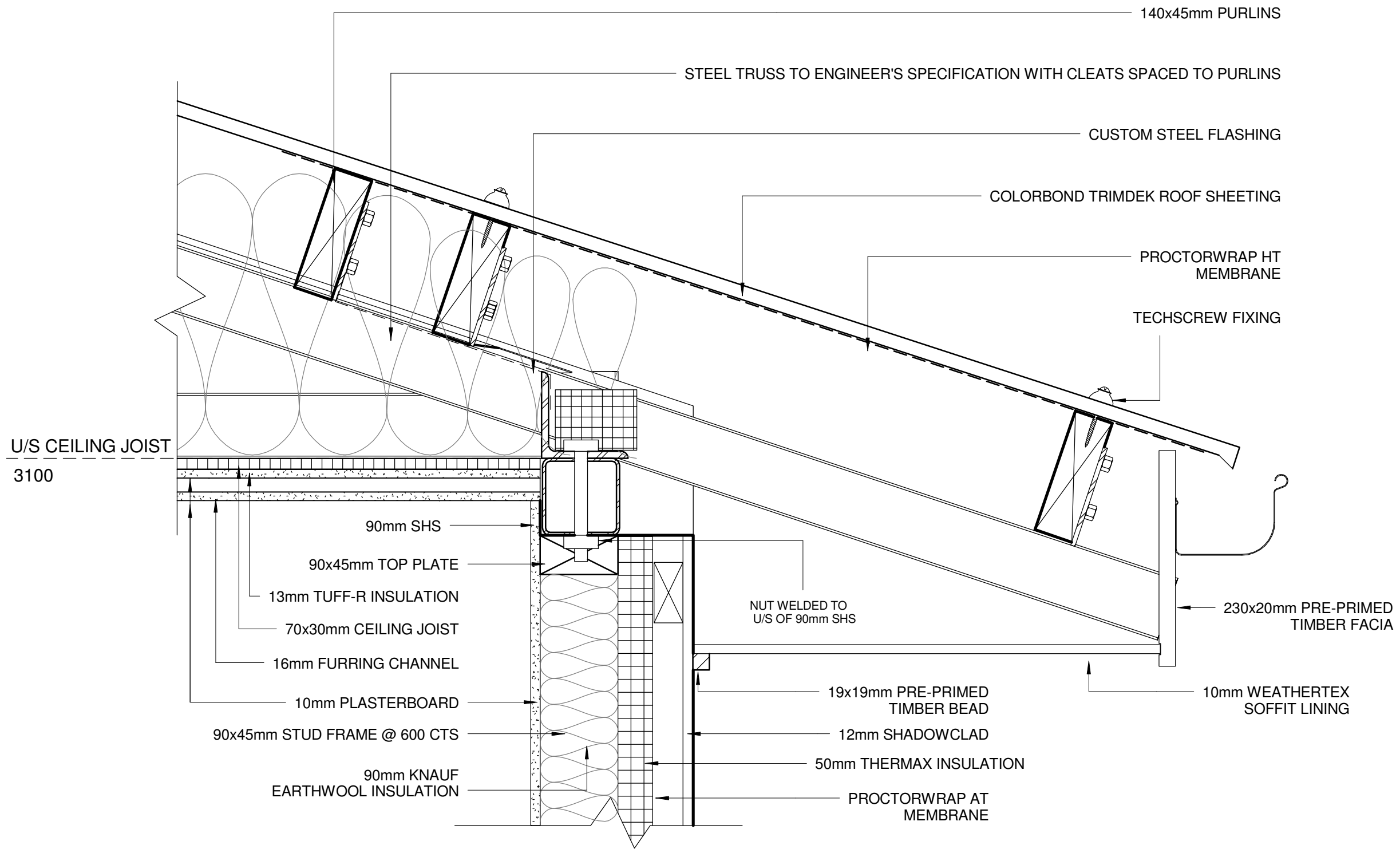
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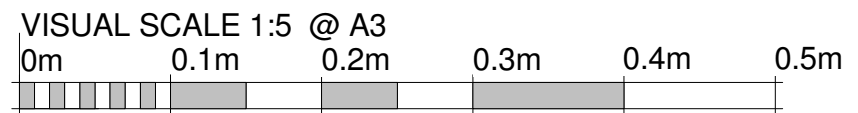
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ROOF DETAIL 6

A-670



1
A-610
ROOF DETAIL 6
1 : 5





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Drawn By: PETER WILSON

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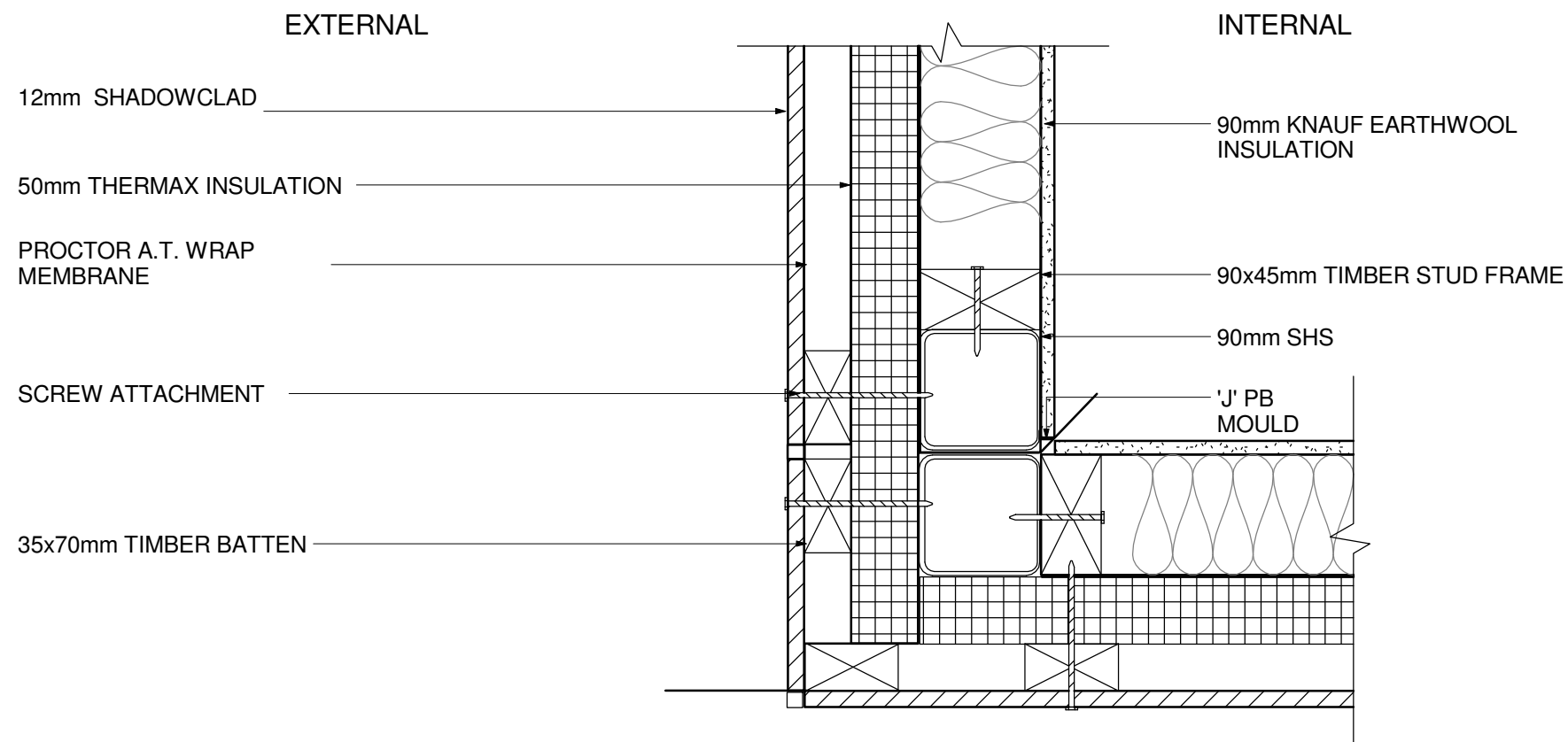
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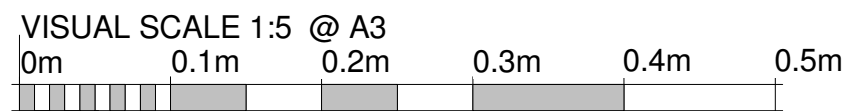
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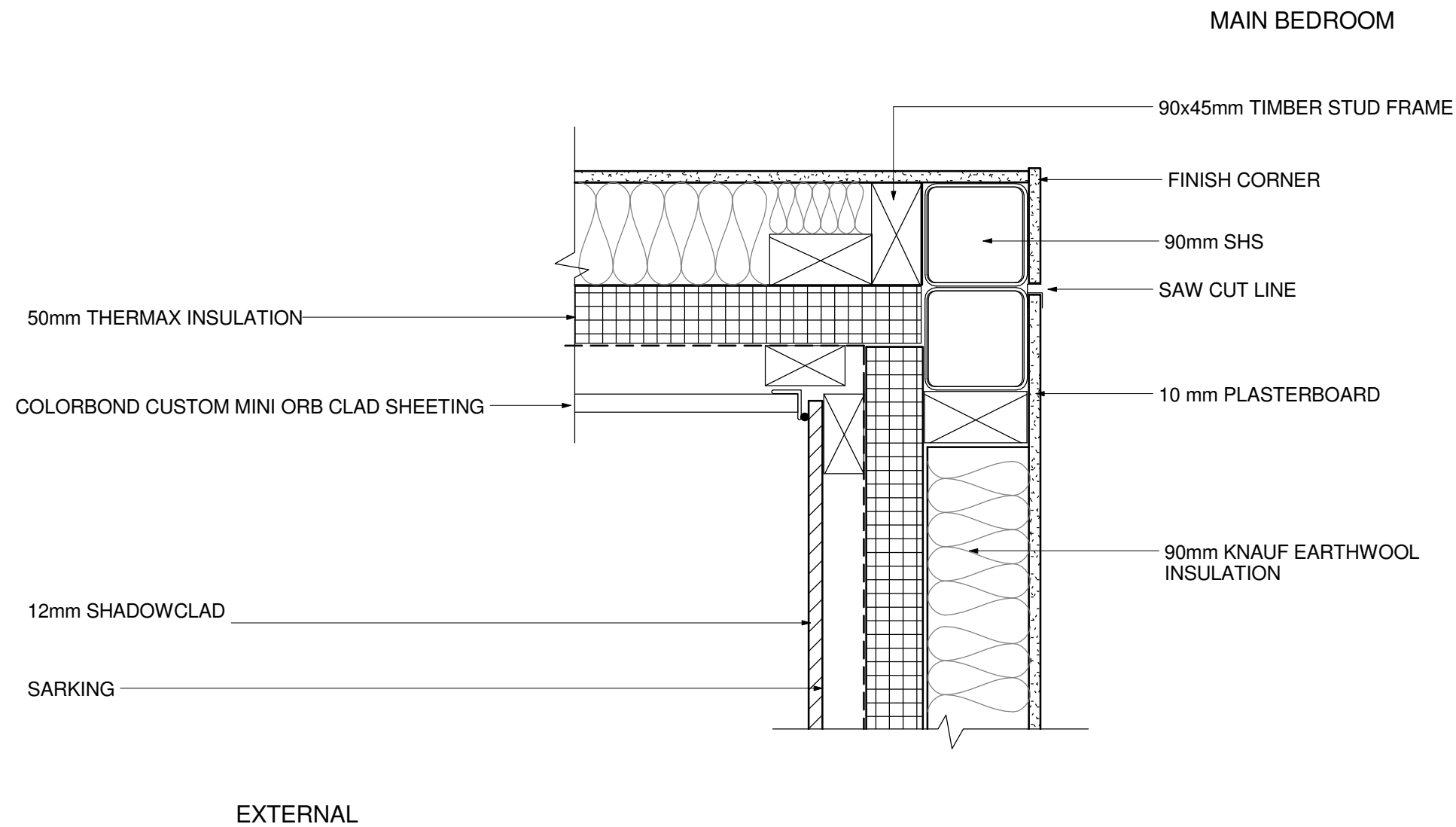
WALL TYPE

A-701



1
201 **E1 EXTERNAL CORNER**
1 : 5

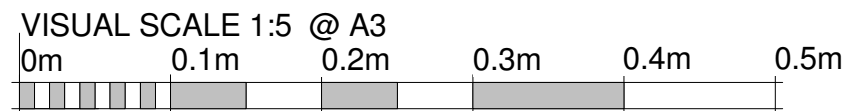




2
A-201

E2 TO E3 EXTERNAL CORNER

1 : 5



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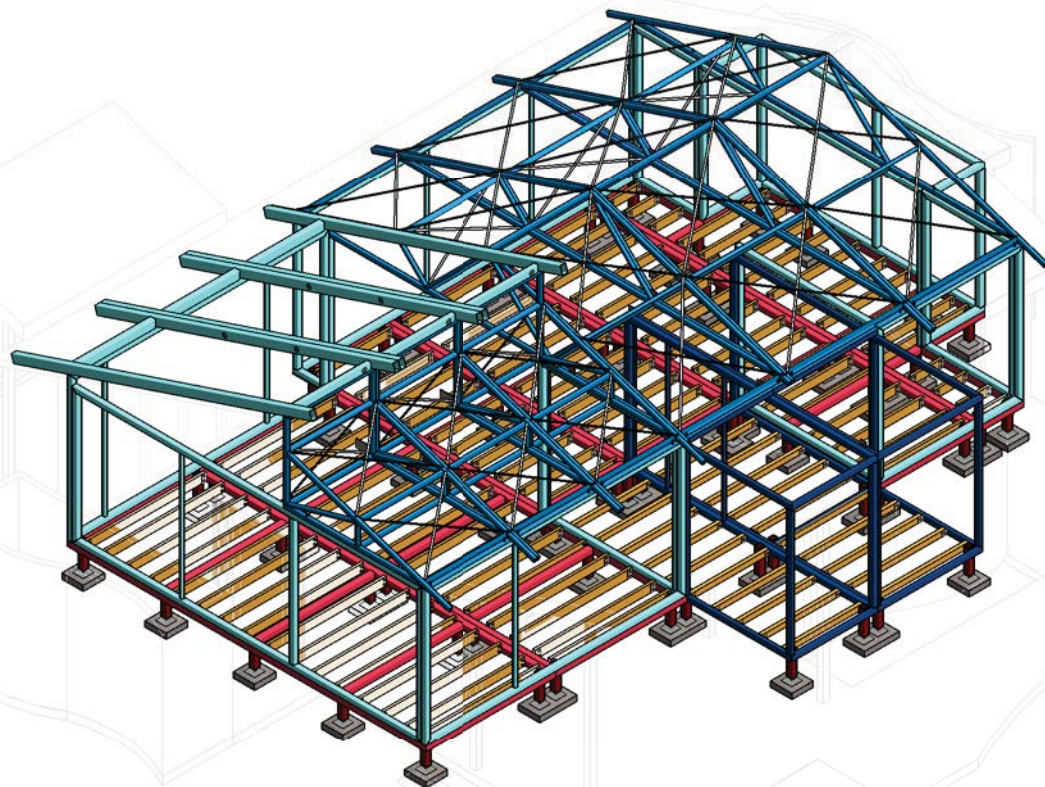
Date: 03/06/13

Scale: 1 : 5 @ A3

WALL TYPE

A-702

SOLAR DECATHLON STRUCTURAL DISCIPLINE



STRUCTURAL DRAWING LIST

S-000	COVER SHEET
S-100	FLOOR 3D MODEL
S-101	POD FRAMING 3D MODEL
S-102	WALL FRAMING 3D MODEL
S-103	WALL & ROOD 3D MODEL
S-104	ROOF FRAME 3D MODEL
S-200	FLOOR PLAN
S-300	WALL FRAMING PLAN
S-400	ROOF FRAMING PLAN
S-500	NORTH ELEVATION
S-501	SOUTH ELEVATION
S-502	EAST ELEVATION
S-503	WEST ELEVATION
S-600	FLOOR DETAILS - SHEET 1
S-601	FLOOR DETAILS - SHEET 2
S-602	FLOOR DETAILS - SHEET 3
S-603	FLOOR DETAILS - SHEET 4
S-700	ROOF DETAILS - SHEET 1
S-701	ROOF DETAILS - SHEET 2
S-702	ROOF DETAILS - SHEET 3
S-703	ROOF DETAILS - SHEET 4
S-704	ROOF DETAILS - SHEET 5

STRUCTURAL MEMBER SCHEDULE		
MARK	SIZE	COMMENTS
PAD FOOTING		
PF1	400 x 400 x 100 DEEP	
STEEL FLOOR COLUMN		
SC1	100 x 100 x 3 SHS	
FLOOR BEAM		
FB1	100 x 100 x 3 SHS	
WALL BEAM		
WB1	89 x 89 x 3.5 SHS	
WALL COLUMN		
WC1	89 x 89 x 3.5 SHS	
WC2	50 x 50 x 3 SHS	
FLOOR JOISTS		
FJ1	150 x 45	
FJ2	95 x 63 HYSPAN	
POD FRAME		
F1	100 x 50 x 2.5 RHS	
F2	100 x 75 x 3.0 RHS	
POD COLUMN		
F1C1	100 x 50 x 2.5 RHS	
F1C2	100 x 75 x 3 RHS	
F1C3	50 x 50 x 3 SHS	
TRUSS		
BOTTOM CHORD	75 x 50 x 2.5 RHS	
DIAGONAL	50 x 50 x 2.5 SHS	
TOP CHORD	75 x 50 x 2.5 RHS	
TT1	75 x 50 x 2.5 RHS	TRUSS TIE BEAM
TT2	100 x 100 x 8 EA	TRUSS TIE BEAM
TV1	75 x 50 x 2.5 RHS	TRUSS VERTICAL
TV2	50 x 50 x 2.5 SHS	TRUSS VERTICAL
ROOF BEAM		
RB1	150 x 100 x 4 RHS	
RB2	150 x 100 x 4 RHS	
RB3	125 x 75 x 3 RHS	



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Client: National Energy Administration
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Amendments

Rev.	Description	Date
1	SUBMISSION FOR 80%	21/9/12

Lot Number #303

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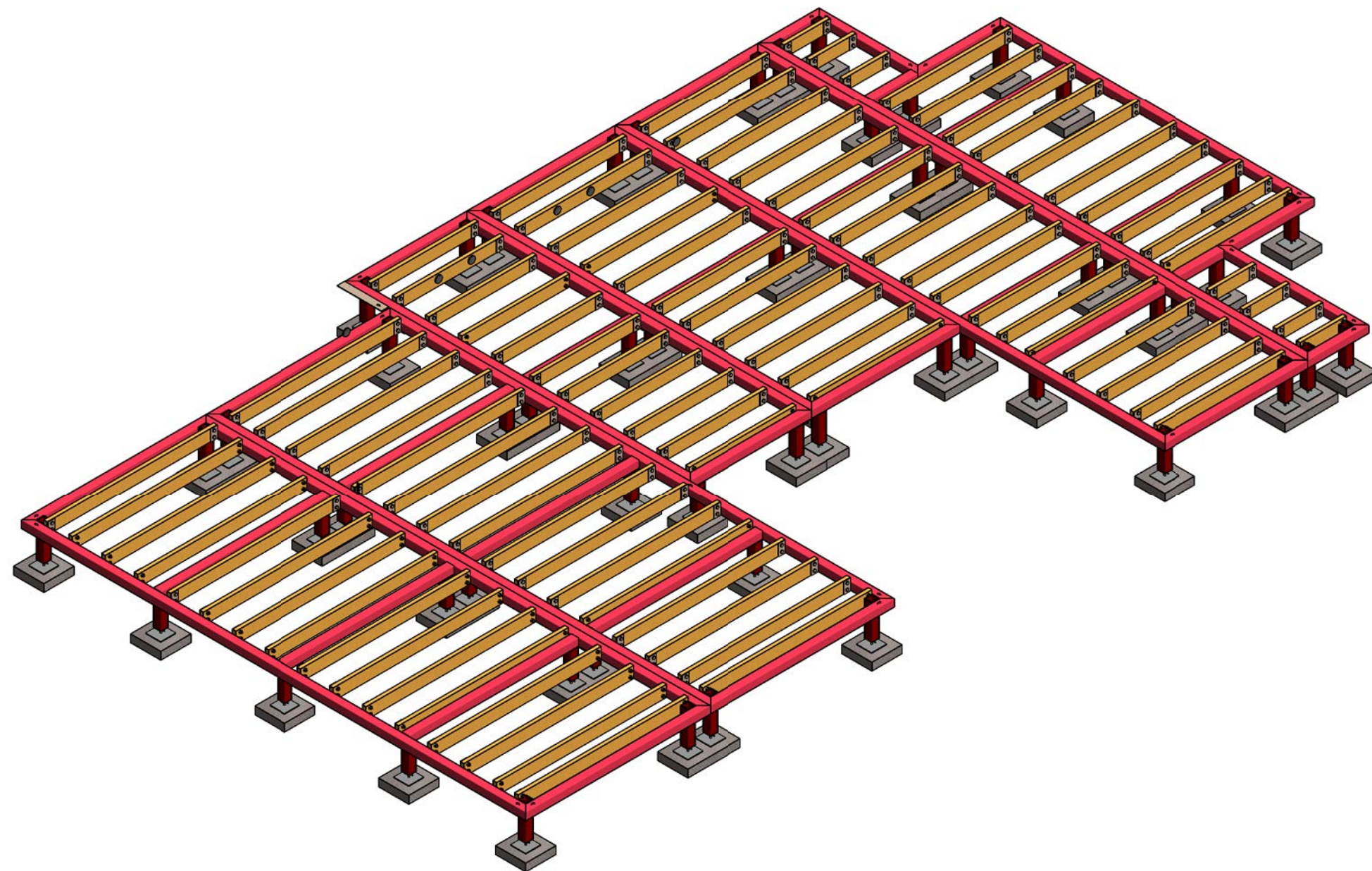
Date: 21/9/12

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STRUCTURAL COVER SHEET

1

S-000



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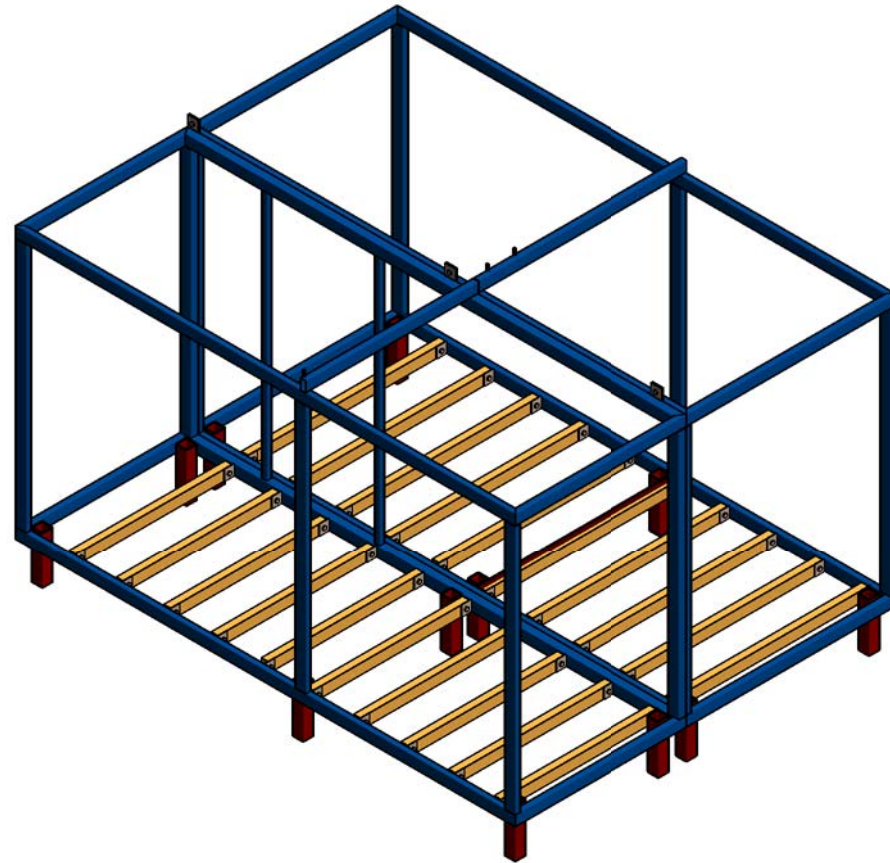
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**STRUCTURAL
FLOOR 3D
MODEL**

1 S-100



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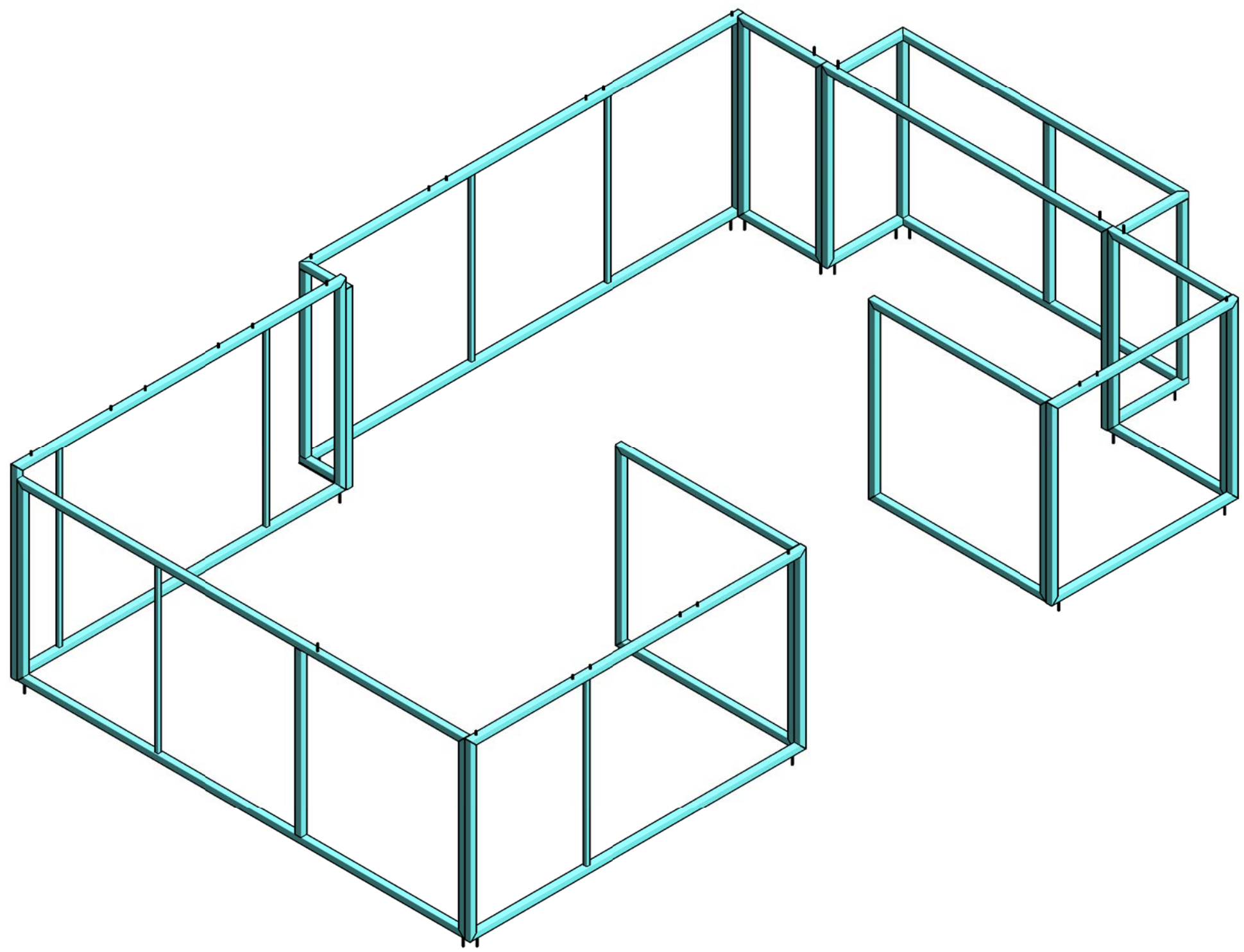
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**STRUCTURAL
POD FRAMING 3D
MODEL**

1

S-101



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 中国 SD CHINA
 国际太阳能十项全能竞赛

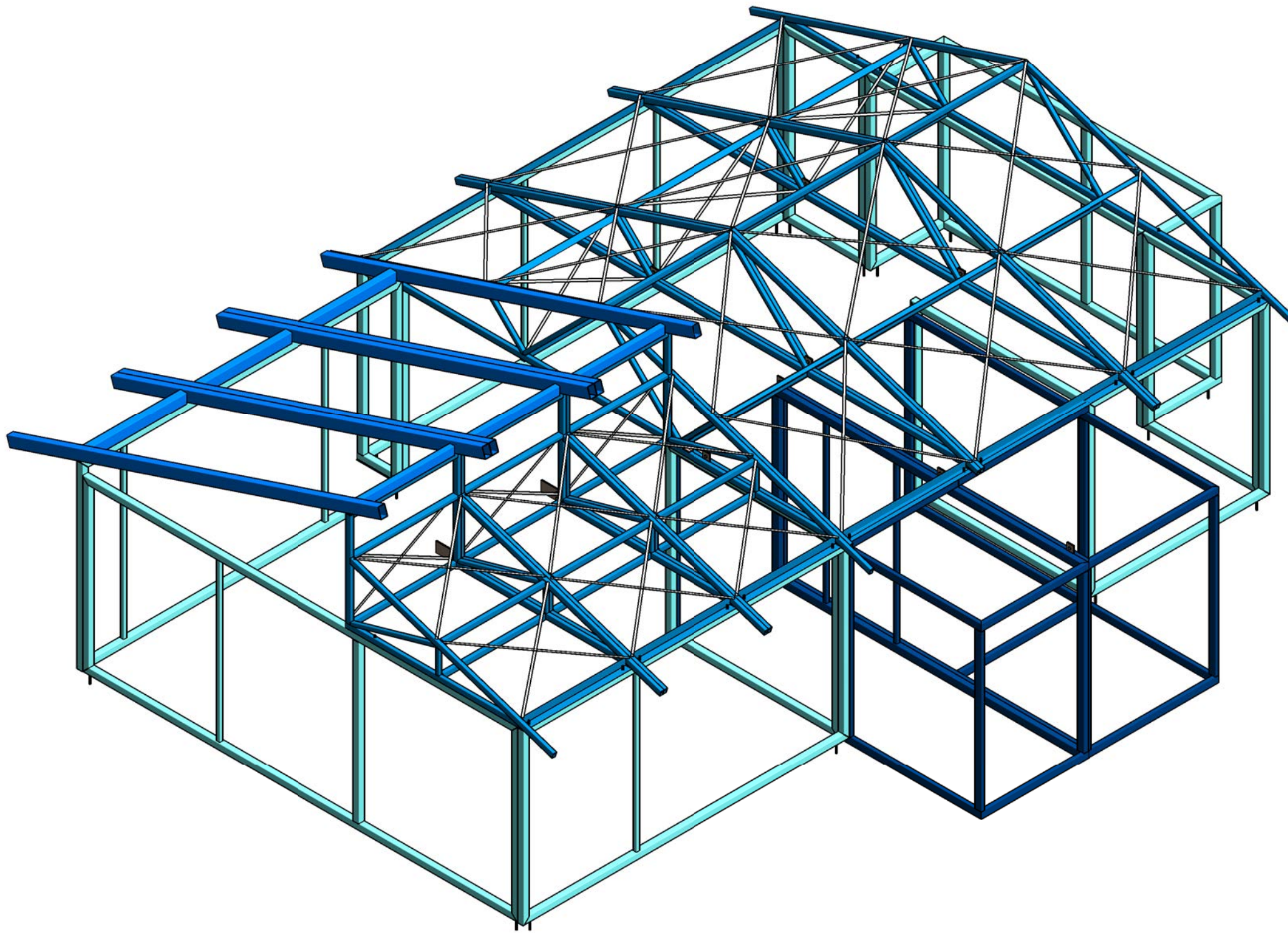
Amendments

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**STRUCTURAL
 WALL FRAME 3D
 MODEL**

1 S-102



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Amendments

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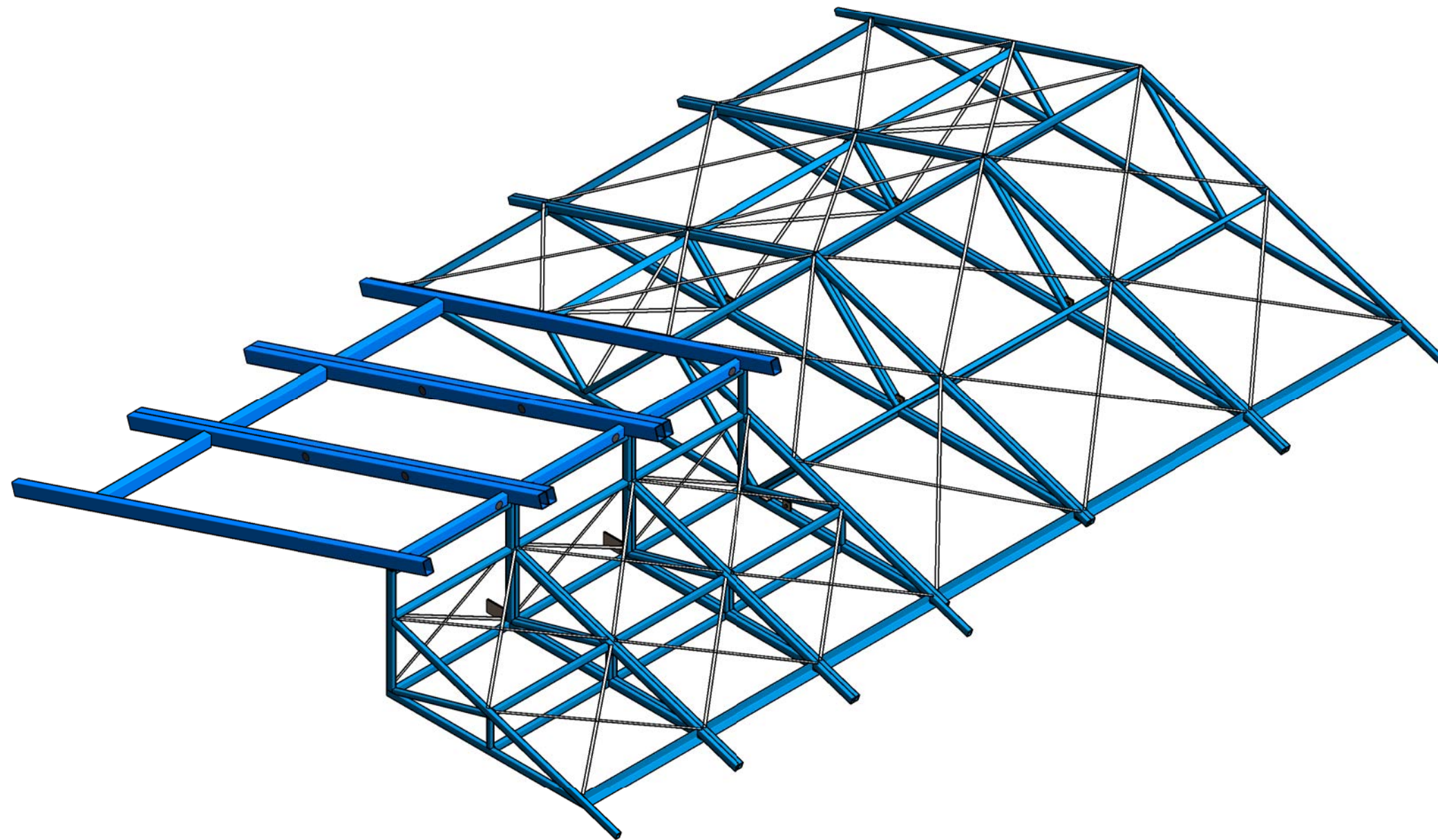
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Scale: @ A3

**STRUCTURAL
WALL & ROOF 3D
MODEL**

1 S-103



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**STRUCTURAL
ROOF FRAME
3D MODEL**

1

S-104