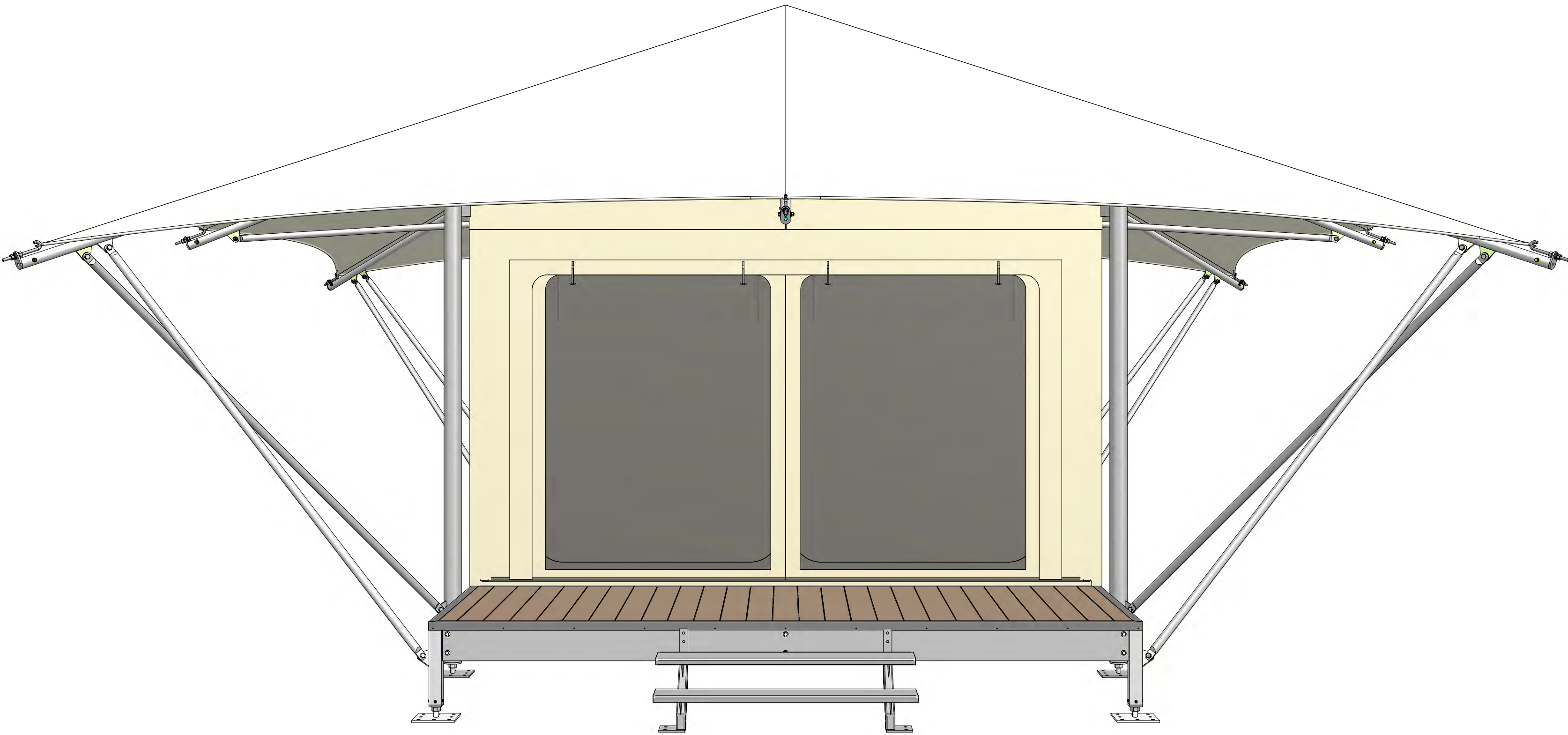


4.2m TENT WITH 1.8m DECK

LAKE COWAL FOUNDATION

LAKE COWAL CONSERVATION CENTRE - BLOW CLEAR RD, LAKE COWAL NSW 2671 AUSTRALIA

REVISION A



DRAWING SCHEDULE;

M1477-GA4 - SHEET 2	SPECIFICATIONS
M1477-GA4 - SHEET 3	PARTS LISTING AND ISOMETRIC VIEWS
M1477-GA4 - SHEET 4	ELEVATIONS
M1477-GA4 - SHEET 5	COLUMN/STUMP PLAN & DECKING LAYOUT

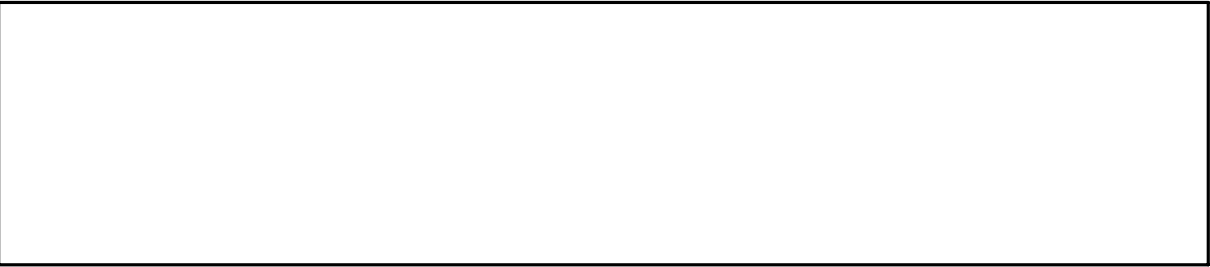
ISSUED FOR REVIEW 16 JAN 20

CLIENT:

ECO STRUCTURES Pty Ltd

ABN 76 112 623 284
PO Box 324 SOUTH FREMANTLE WA 6162
Email: sales@ecostructures.com.au
Web: www.ecostructures.com.au
Mobile: 0439 688 818





PROJECT:		4.2m TENT WITH 1.8m DECK LAKE COWAL CONSERVATION CENTRE		DATE: 30JUN16
TITLE:		STRUCTURAL ENGINEERING DOCUMENTATION		
DRAWING NUMBER	40-0481	REV:	16JAN20	A
M1477-GA4				

REFERENCE DRAWINGS

12

11

10

9

8

7

6

5

4

3

2

1

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND CONSULTANT DRAWINGS, SPECIFICATIONS AND WITH ANY OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.

2. ALL DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT FOR A DECISION BEFORE PROCEEDING WITH THE WORK.

3. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.

4. REFER TO ARCHITECTURAL DRAWINGS FOR SETTING OUT DETAILS.

5. DURING ALL PHASES OF CONSTRUCTION THE BUILDER IS TO ENSURE THAT THE STRUCTURE IS MAINTAINED IN A STABLE CONDITION AND THAT NO PART IS OVERSTRESSED.

6. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUSTRALIAN STANDARDS AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITY.

FOUNDATION NOTES:

1. FOUNDATION FOR SLABS TO COMPLY WITH AS 2870-2011 CLAUSE 6.4.3. AND TO SATISFY THE FOLLOWING:

(a) TOP SOIL CONTAINING GRASS ROOTS OR OTHER ORGANIC MATERIALS SHALL BE REMOVED FROM THE AREA ON WHICH THE SLAB IS TO REST.

(b) ON SITES SUBJECT TO WIND OR WATER EROSION, THE FOUNDATION OF THE EDGE BEAM OR FOOTING SHALL BE PROJECTED.

(c) THE SLAB, INCLUDING EDGE AND INTERNAL BEAMS, SHALL BE FOUNDED AS FOLLOWS:

(i) SLAB EDGE BEAMS ARE TO BE SUPPORTED ON NATURAL SOIL, OR CONTROLLED FILL COMPACTED IN ACCORDANCE WITH AS 2870-1996 CLAUSE 6.4.2 (a). IF FOUNDED ON CONTROLLED FILL, THIS FILL SHALL CONTINUE PAST THE EDGE OF THE BUILDING BY AT LEAST 1m AND SHALL BE RETAINED OR BATTERED BEYOND THIS POINT BY A SLOPE NOT STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL.

(ii) SLAB PANELS, INTERNAL BEAMS AND LOAD SUPPORT THICKENINGS ARE TO BE FOUNDED ON NATURAL SOIL, CONTROLLED FILL OR ROLLED FILL IN ACCORDANCE WITH AS 2870-1996 CLAUSE 6.4.2.

2. THE FOOTING SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH ENGINEERING PRINCIPLES SUITABLE FOR USE IN SITES CLASSED 'A' or 'S' AS PER AS 2870 - 2011. SITE CLASSIFICATION BY OTHERS.

CONCRETE NOTES:

1. ALL CONCRETE WORK TO BE IN ACCORDANCE WITH AS3600.

2. OBTAIN CONCRETE FROM AN APPROVED PRE-MIXED CONCRETE SUPPLIER, UNLESS APPROVAL HAS BEEN OBTAINED FROM THE STRUCTURAL ENGINEER TO USE SITE MIXED CONCRETE.

3. ALL SUPPLIED CONCRETE IN ACCORDANCE WITH THE TABLE BELOW

LOCATION	F'c (MPa)	AGR. MAX.	MAX. SLUMP
FOOTINGS	20	20	80
GROUND SLAB	25	20	75

4. CLEAR COVER TO REINFORCEMENT UNLESS OTHERWISE SHOWN SHALL BE:

SLABS 20mm (40mm EXPOSED)

BEAMS 25mm (40mm EXPOSED)

COLUMNS 40mm (50mm EXPOSED)

WALLS 20mm (30mm EXPOSED)

FOOTINGS 60mm UNLESS OTHERWISE NOTED

5. BUILD FORMWORK FROM ARCHITECTURAL DRAWINGS, CHECK FOR BUILT IN FIXINGS, REBATES, TIES, FLASHINGS, ELECTRICAL FITTINGS AND PLUMBING ETC.

6. CURE CONCRETE FOR A MIN. OF SEVEN DAYS AFTER POURING BY PONDING OR BY OTHER APPROVED MEANS.

STEELWORK NOTES:

S1 ALL STEELWORK MATERIALS, FABRICATION & TOLERANCES SHALL BE IN ACCORDANCE WITH AS 4100 - 1998 STEEL STRUCTURES AND AS / NZS 4600 - 2005 COLD FORMED STEEL STRUCTURES - ALL WELDING SHALL COMPLY WITH AS/NZS 1554 - 2004

S2 ALL STEELWORK SHALL BE FABRICATED IN ACCORDANCE WITH THE SIZES, DIMENSIONS AND SPECIFICATIONS INCLUSIVE OF STEEL GRADES AND SITE INSTALLED BRACING DETAILED IN THE ATTACHED FABRICATION AND ERECTION DRAWINGS. THERE SHALL BE NO SUBSTITUTION OF DETAILED STEEL SECTIONS WITHOUT PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER

S3 EXCEPT WHERE SHOWN IN THE DETAILS ALL STEEL TO STEEL CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS. BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF 8mm THICK CLEATS WITH 2 x M12 4.6/S BOLTS U.N.O.

S4 ALL NUTS, BOLTS & WASHERS SHALL BE GALVANISED UNLESS NOTED OTHERWISE

S5 ALL PROPRIETARY SELF DRILLING SCREWS (TEKS) SHALL BE "BUILDEX" WITH ZACS CLASS 4 CORROSION TREATMENT

S6 PROVIDE HOLES FOR FIXING CLEATS FOR OTHER TRADES AS DIRECTED IN THE SPECIFICATIONS OR SHOWN ON THE FABRICATION DETAIL DRAWINGS

S7 SEAL ALL OPEN ENDS OF STEEL HOLLOW SECTIONS U.N.O. GRIND OFF ALL VISIBLE WELDS AND BRAND MARKS TO A NEAT APPEARANCE TYPICALLY THROUGH OUT.

S8 PRIOR TO SHIPPING OF FABRICATED STEELWORK, THE FABRICATOR SHALL SUBMIT TO THE DESIGN ENGINEER FOR APPROVAL DOCUMENTATION STATING THE FOLLOWING;

a) THE NAME OF THE MANUFACTURER (ALL STRUCTURAL STEEL SECTIONS)

b) METHOD OF MANUFACTURE (i.e. HOT ROLLED, COLD FORMED, WELDED ETC)

c) THE SPECIFIC YIELD STRESS GRADE OF ALL STEEL SECTIONS

d) THE MANUFACTURER, GRADE AND GALVANIC TREATMENT CLASS OF ALL FASTENERS

THE FABRICATOR SHALL PROVIDE A WRITTEN CONFIRMATION THAT ALL STEELWORK MATERIALS, GRADES, FABRICATION, FASTENERS AND TREATMENTS COMPLY WITH THE ATTACHED DESIGN DETAILS AND SPECIFICATIONS.

S9 THE STEELWORK ERECTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING ERECTION TO STABILISE THE STRUCTURE AND ENSURE NO PART BECOMES OVER STRESSED DURING CONSTRUCTION

S10 ALL STEELWORK TO HAVE SURFACE TREATMENTS AS PER THE ATTACHED TREATMENT NOTES

SITE WELDING NOTES:

TREAT ALL GALVANISED OR DURAGAL MEMBER SITE WELDS BY POWER TOOL ABRASIVE CLEANING FOLLOWED BY SCRUBBING WITH NYLON BRUSH AND SOAPY WATER TO REMOVE ALL TRACES OF WELD FUME DEPOSITS THEN COATING WITH 2 PACK EPOXY ZINC RICH PRIMER BY BRUSH TO 150 MICRONS DRY FILM THICKNESS.

RECOMMENDED 2 PACK EPOXY ZINC RICH PRIMERS

a) "AMERON COATING" 'AMERCOAT 307' TWO PACK EPOXY ZINC RICH PRIMER

b) "DULUX" 'ZINCANODE 202' TWO PACK EPOXY ZINC RICH PRIMER

c) "WATTYL" 'GALVIT EP100' TWO COMPONENT POLYAMIDE-CURED ZINC EPOXY PRIMER

STEELWORK SURFACE TREATMENT NOTES - PAINT :

T1 ALL STEELWORK IS TO BE TREATED FOR PROTECTION AGAINST CORROSION IN ACCORDANCE WITH AS/NZS 2312 - 2002 SUITABLE FOR PROTECTION IN CATEGORY 'C' MEDIUM. SYSTEM SHALL BE 'IZS1' OR 'IZS2', ABRASIVE BLAST CLEAN CLASS 2.5 THEN 1 COAT OF INORGANIC ZINC SILICATE 75 MICRONS D.F.T.

T3 ALL DAMAGED SURFACE TREATMENTS OR SITE WELDS SHALL BE ABRASIVE CLEANED TO CLASS 1 (REMOVING ALL WELDING FUME & SPATTER) AND TREATED WITH A 2 PACK ORGANIC ZINC PRIMER BY BRUSH TO 75 MICRONS D.F.T.

T4 ALL COLD FORMED STEEL ZINC TREATED 'C' FLOOR BEARERS, JOISTS, BRIDGING PIECES, ROOF PURLINS AND FASCIAS INCLUDING BRACKETS ETC IN MEDIUM OR INLAND TROPICAL ATMOSPHERIC CONDITIONS SHALL HAVE A MINIMUM ZINC COATING OF Z275 (275 GRAMS PER SQUARE METRE)

T5 FINISH OR COSMETIC TOP COAT PAINTS MAY BE APPLIED OVER THE ABOVE EXTERNAL SURFACE TREATMENT IN ACCORDANCE WITH AS/NZS 3750:2008 PAINTS FOR STEEL STRUCTURES.

T6 ALL EXTERNAL NUTS, BOLTS & WASHERS SHALL BE HOT DIP GALVANISED IN ACCORDANCE WITH AS 1214 - 1983 HOT DIP GALVANISING COATINGS ON THREADED FASTENERS

T7 ALL EXTERNAL HOLDING DOWN BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALVANISED.

STRUCTURAL REFERENCES

STRUCTURAL ELEMENTS DETAILED ON ALL SHEETS HAVE BEEN DESIGNED TO COMPLY WITH STRUCTURAL PROVISION OF THE BUILDING CODE OF AUSTRALIA. THE FOLLOWING REFERENCES HAVE BEEN RELIED UPON:

- AS/NZS 1170.0: 2002 GENERAL PRINCIPLES

- AS/NZS 1170.1: 2002 PERMANENT IMPOSED AND OTHER ACTIONS

- AS/NZS 1170.2: 2011 WIND ACTIONS

- AS 1170.4-2007 EARTHQUAKE ACTIONS IN AUSTRALIA

- AS 3600-2009 CONCRETE STRUCTURES

- AS 2870-2011 RESIDENTIAL SLABS AND FOOTINGS-CONSTRUCTION

- AS 4100-1998 STEEL STRUCTURES

- AS 4600-2005 COLD FORMED STEEL STRUCTURES

COPYRIGHT

This drawing is copyright and the property of MODEL-IT (WA) Pty Ltd. It must not be retained, copied or used without the authority of MODEL-IT (WA) Pty Ltd.

DISCLAIMER

This drawing and its contents are electronically generated, are confidential and may only be used for the purpose for which they were intended. MODEL-IT (WA) Pty Ltd will not accept responsibility for any consequences arising from the use of the drawing for other than its intended purpose or where the drawing has been altered, amended or changed either manually or electronically by any third party.

REV

DESCRIPTION

BY

DATE

DRAWN

CHECKED

APPROVED

FILENAME

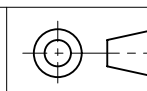
ANY DISCREPANCIES ARE TO BE REPORTED BACK TO MODEL-IT IF IN DOUBT ASK.

MS

DATE

DATE

M1477-GA4.dwg



CLIENT

CLIENT JOB NUMBER

TITLE

4.2m TENT WITH 1.8m DECK INSTALLATION GENERAL ARRANGEMENT

DRAWING NUMBER

M1477-GA4

SHEET 2 OF 5

SHT. SIZE

SCALE

REV

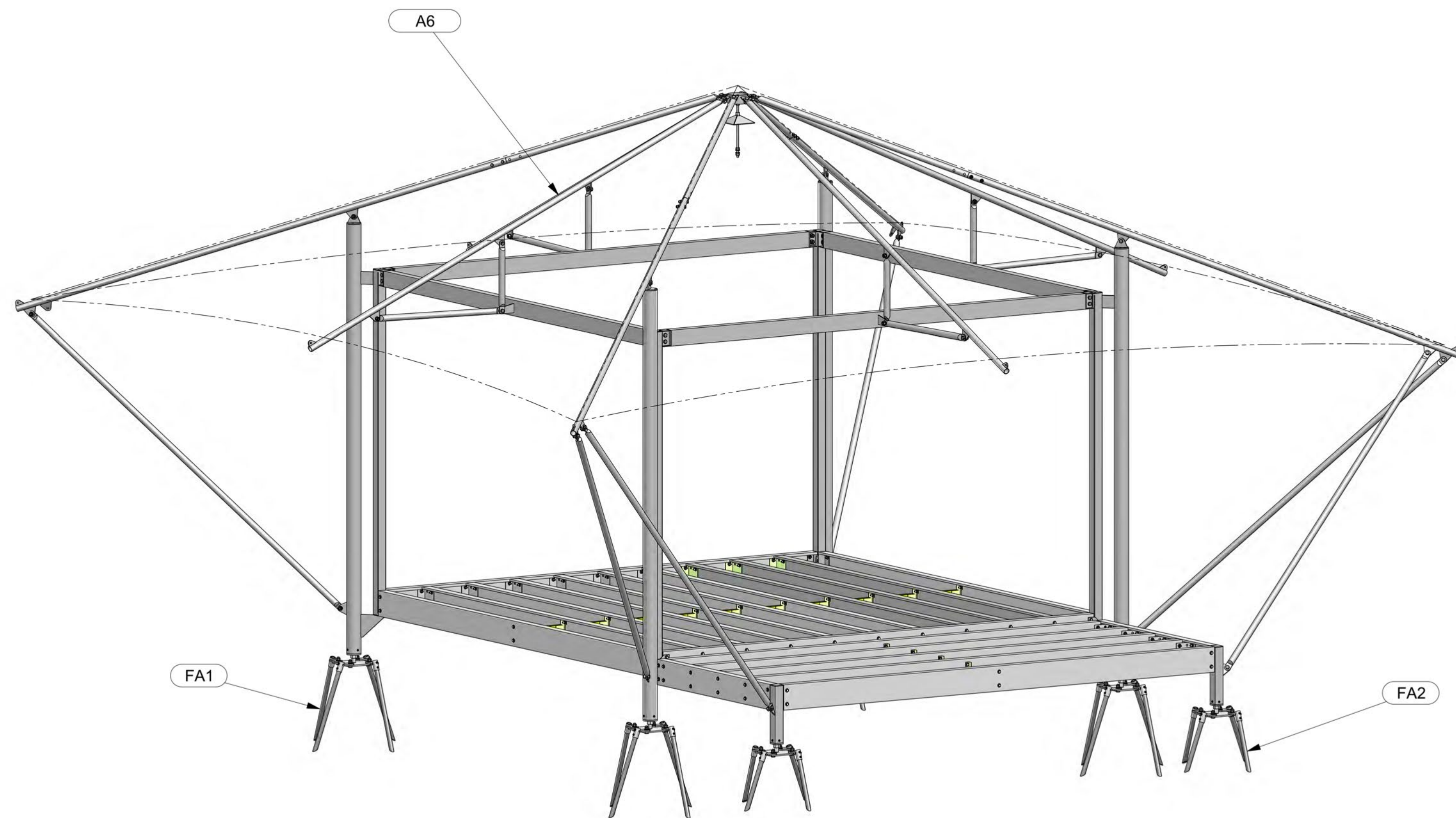
A1

AS SHOWN

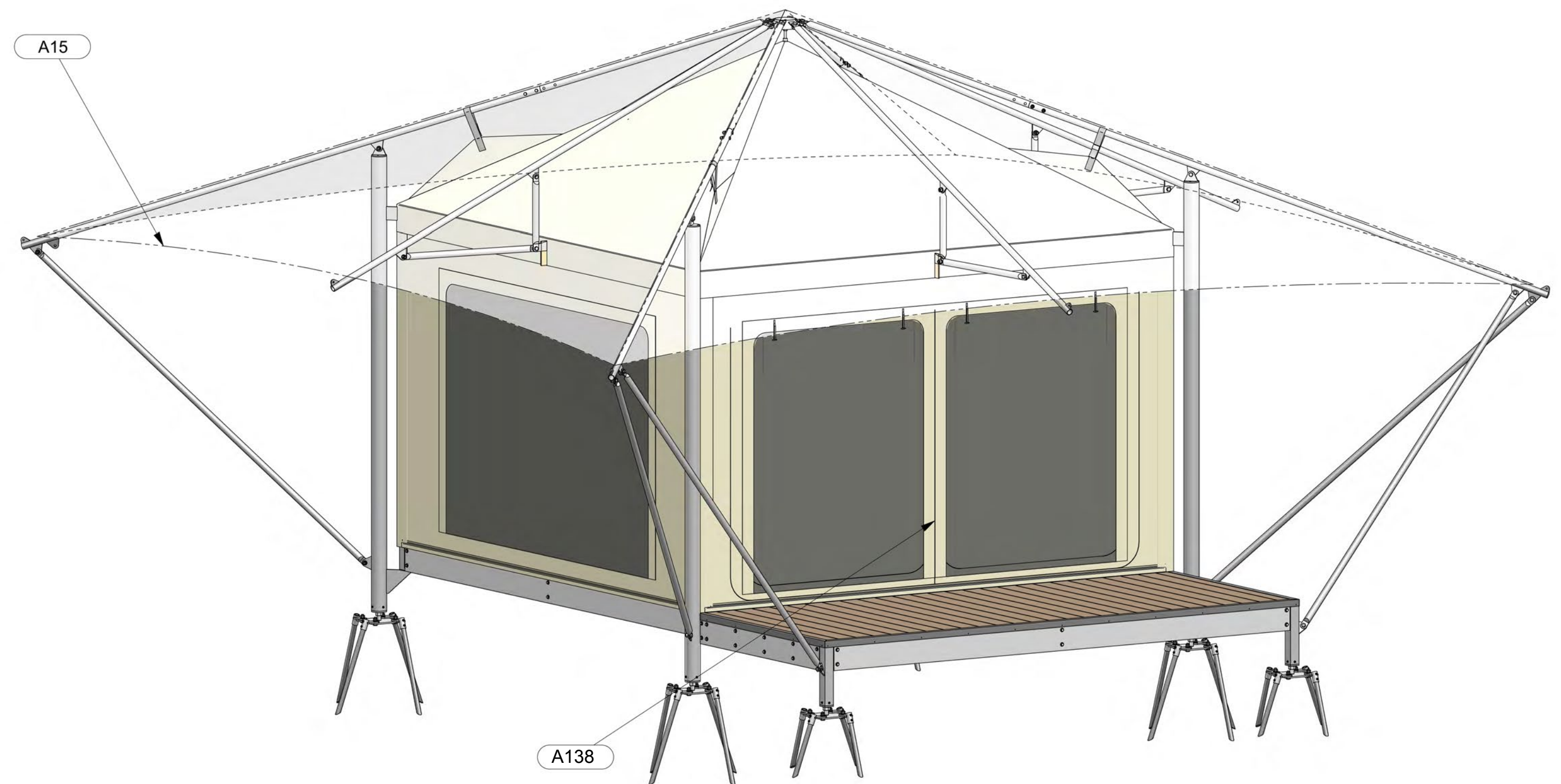
A

ISSUED FOR REVIEW 16 JAN 20

MATERIAL LIST FOR ONE ASSEMBLY:					
FILENAME	MARK/ITEM	QTY	DESCRIPTION	CODE	WEIGHT (kg) PER ITEM
M1031_A117	A117	1	DECK STEEL KIT 4.2x1.8m	MANU	165.72
M1031_A124	A124	1	TENT 4.2x4.2 STEEL STRUCTURE STANDARD	-	896.221
M1031_A127	A138	1	CANVAS KIT 4.2m	-	-
M1031_A97	A97	1	PVC SHADE SAIL KIT 4.2m - 1.9m EAVE COVERAGE	-	-
BOLT_HSS_STRUCT_M16X40	BOLT_M16x40	8	BOLT M16x40 c/w 1x FW 1xNUT	FASTENER	0.20
M1031_BR5	BR5	4	BRACE	WELDMENT	7.73
M1667-FSK1	FSK1	1	FLOOR SHEETING KIT - 16mm		
M1404-STAIRS6	STAIRS6	1	STAIR ASSEMBLY, 2 TREADS	PURCH.	19.11
M1533-ST57	STS7	8	SHADE TENSIONERS SPIGOT	FASTENER	0.007

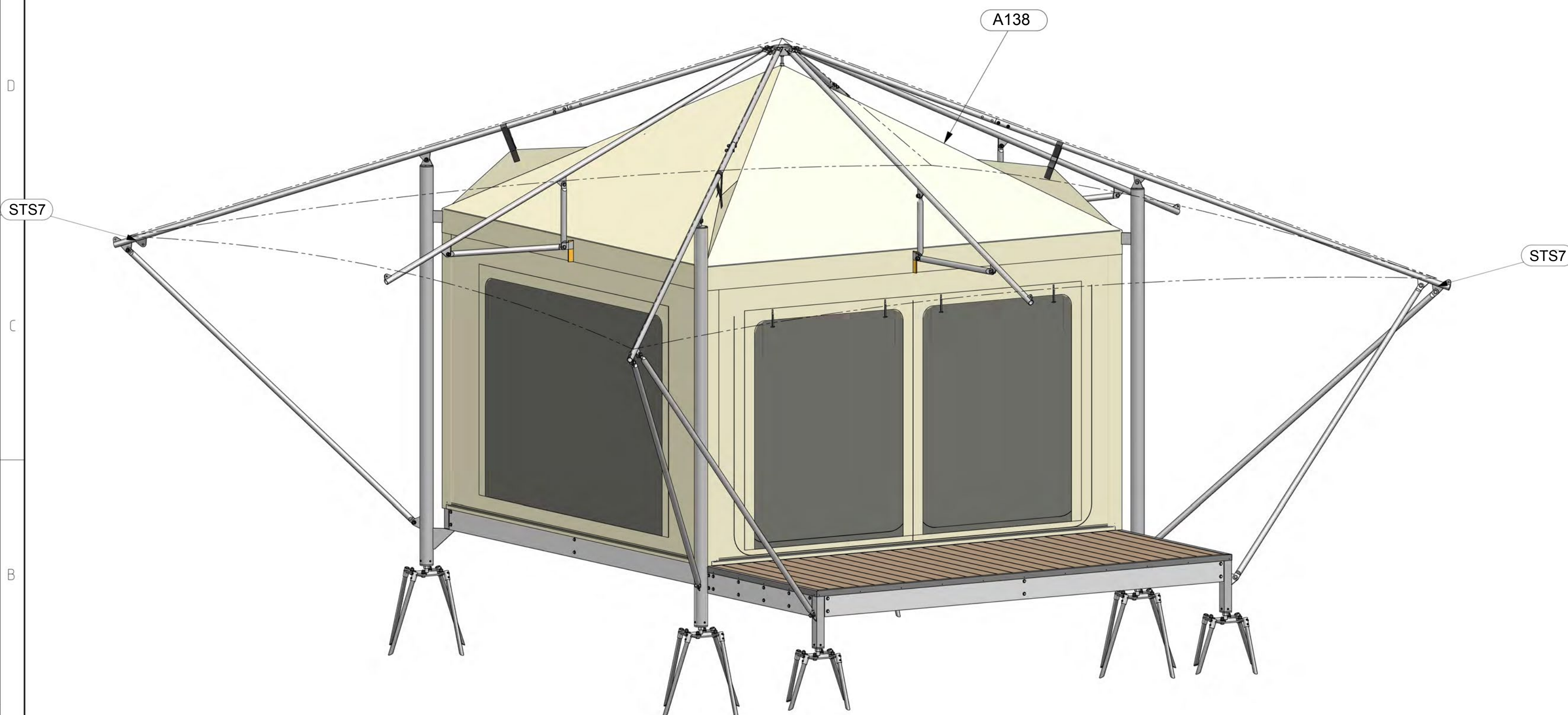


ISOMETRIC VIEW 1 - FRONT

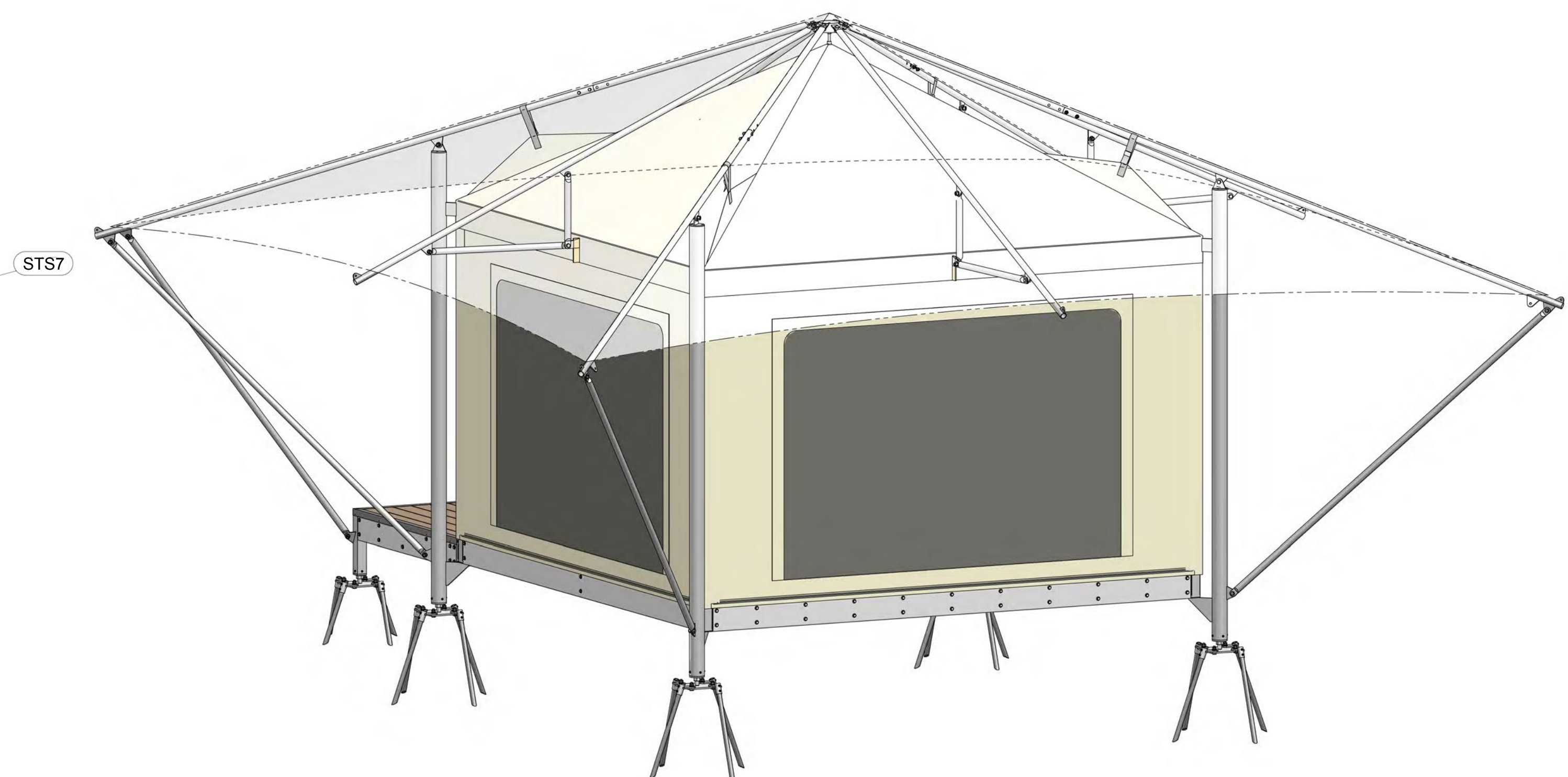


ISOMETRIC VIEW 3 - FRONT

SHADE SAIL SHOWN TRANSLUCENT FOR PICTORIAL PURPOSES ONLY



ISOMETRIC VIEW 2 - FRONT



ISOMETRIC VIEW 4 - REAR


SHADE SAIL SHOWN TRANSLUCENT FOR PICTORIAL PURPOSES ONLY

ISSUED FOR REVIEW 16 JAN 20

COPYRIGHT
This drawing is copyright and the property of MODEL-IT (WA) Pty Ltd.
It must not be retained, copied or used without the authority of
MODEL-IT (WA) Pty Ltd.

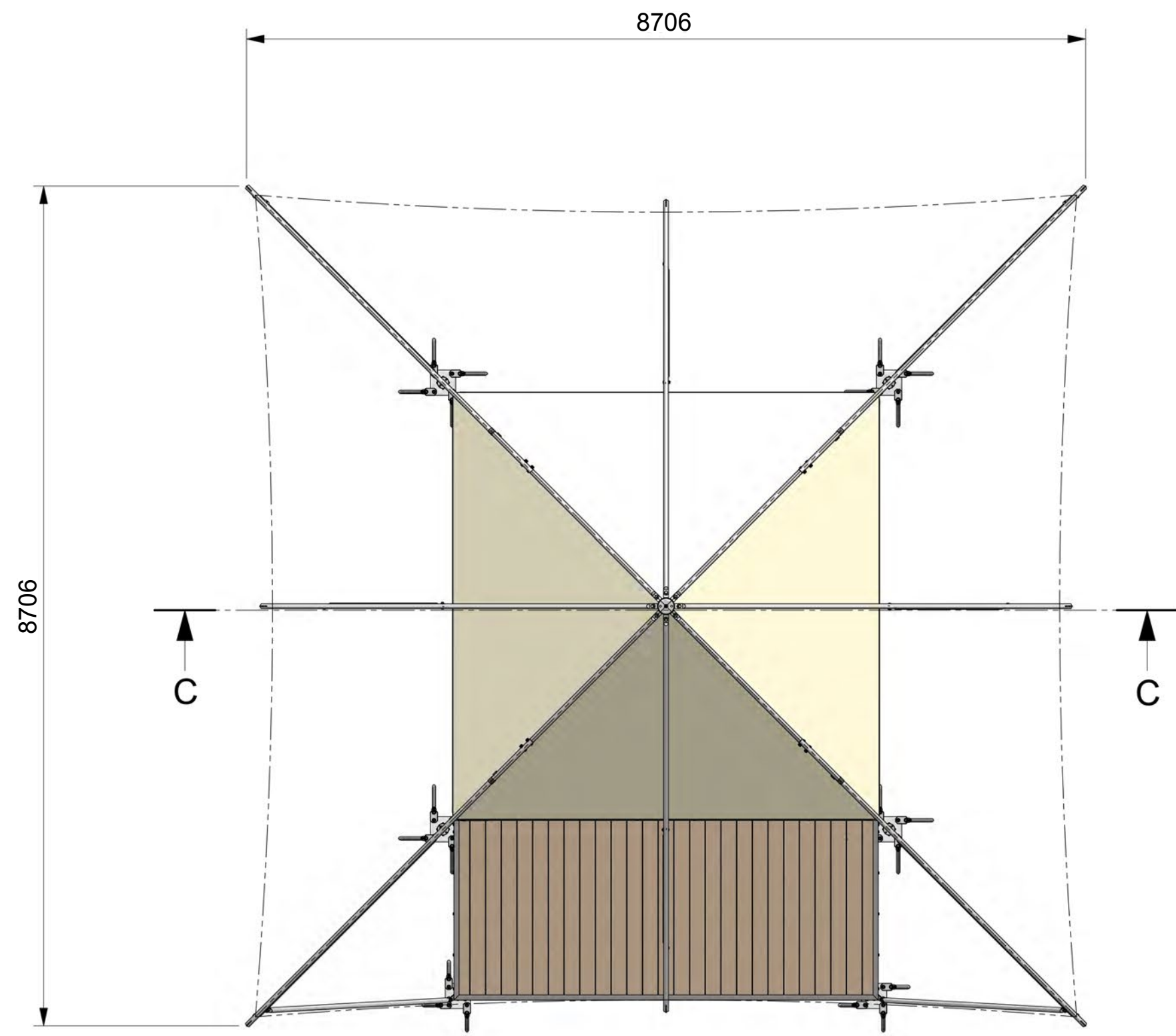
DISCLAIMER
This drawing and its contents are electronically generated, are confidential and may only be used for the purpose for which they were intended.
MODEL-IT (WA) Pty Ltd will not accept responsibility for any consequences arising from the use of the drawing for other than its intended purpose or where the drawing has been altered, amended or changed either manually or electronically by any third party.

REV	DESCRIPTION	BY	DATE

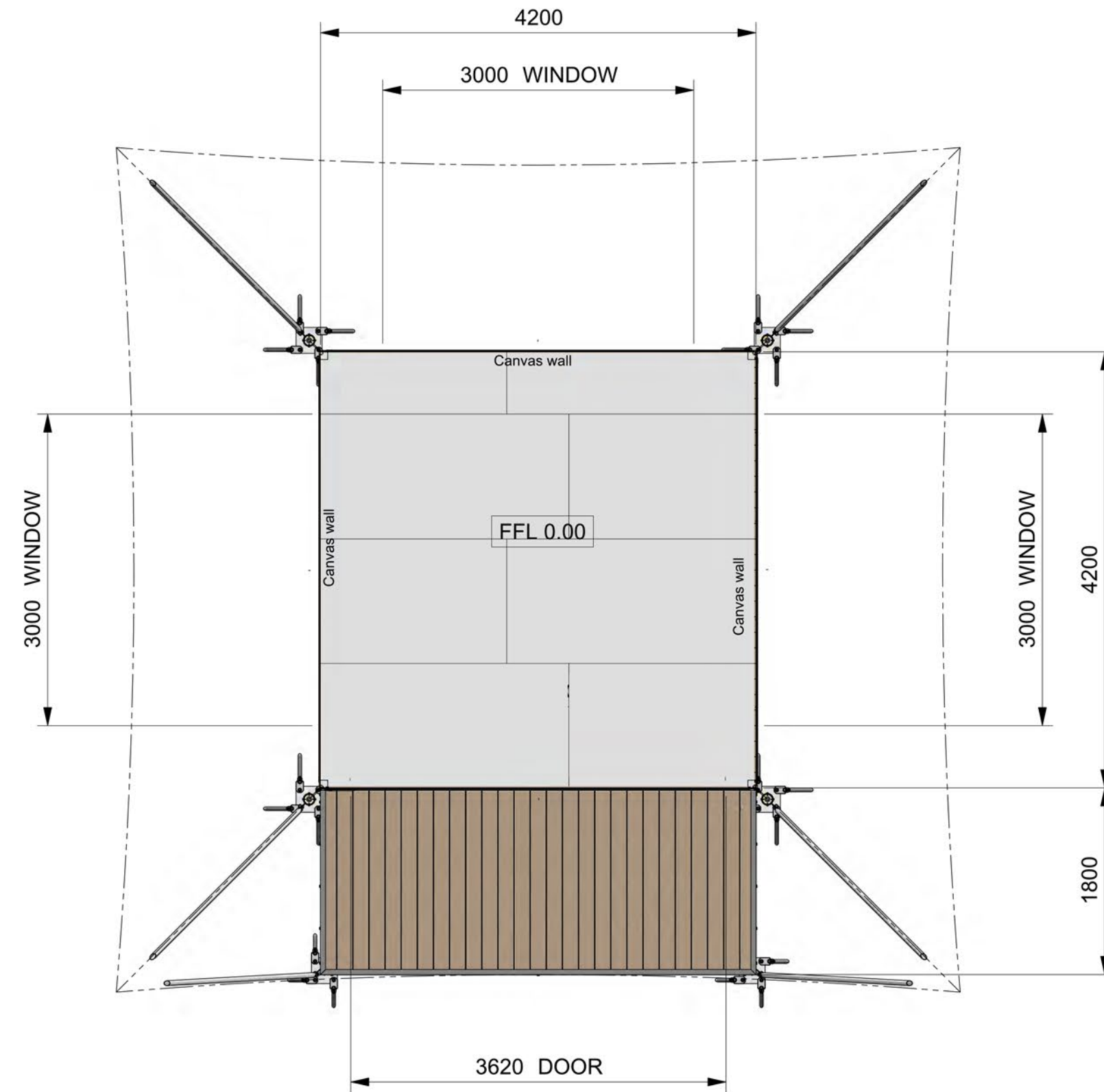
DRAWN	MS	DATE	16JAN2
CHECKED		DATE	
APPROVED		DATE	
FILENAME: M1477-GA4_dwg			
ANY DISCREPANCIES ARE TO BE REPORTED BACK TO MODEL-IT IF IN DOUBT ASK			

CLIENT:	LAKE COWAL FOUNDATION
CLIENT JOB NUMBER:	40-0481
TITLE:	LAKE COWAL CONSERVATION CENTRE BLOW CLEAR RD, LAKE COWAL NSW 2671 AUSTRALIA 4.2m TENT WITH 1.8m DECK INSTALLATION GENERAL ARRANGEMENT

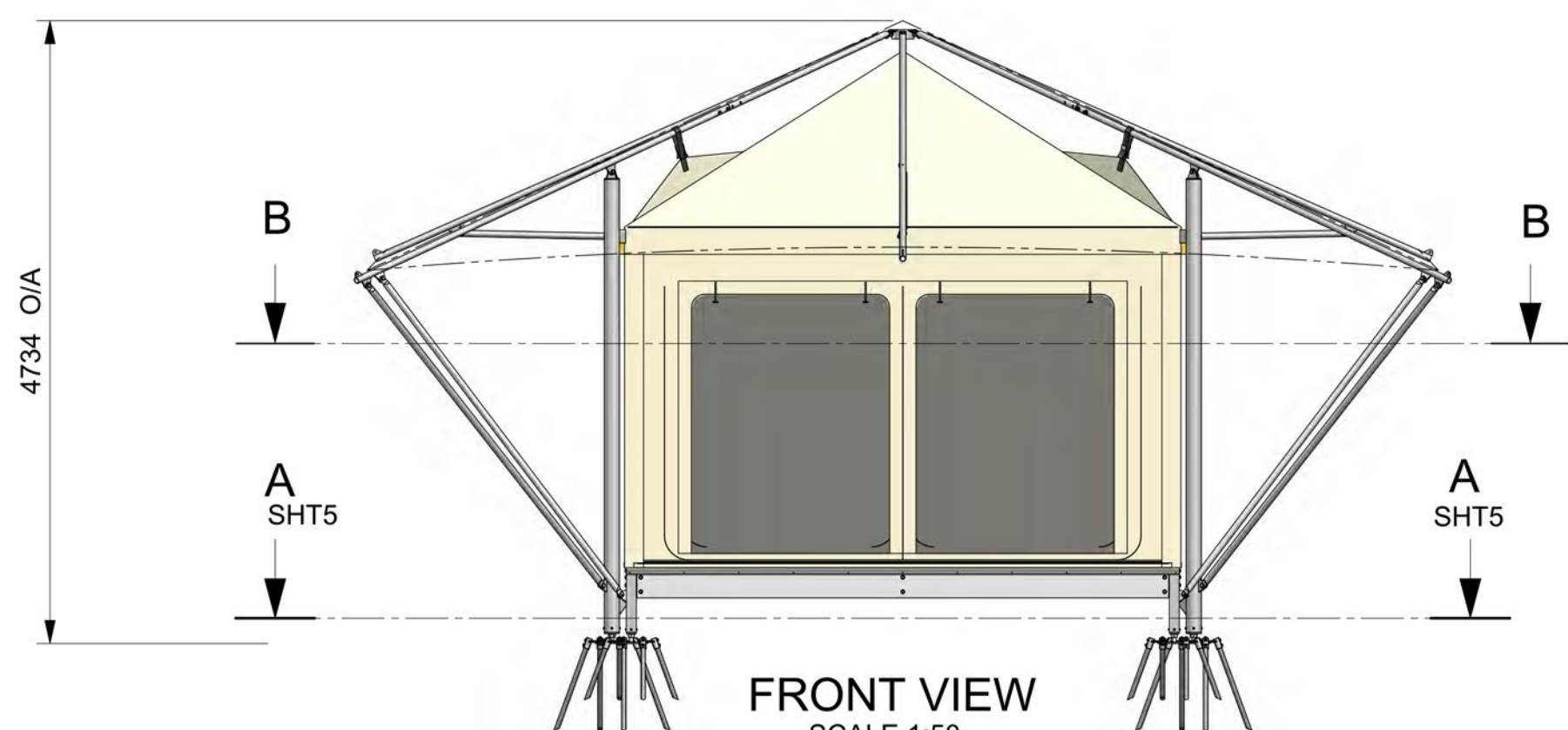
DRAWING NUMBER		
M1477-GA4		
SHEET 3 OF 5		
SHT SIZE	SCALE	REV.
A1	AS SHOWN	A



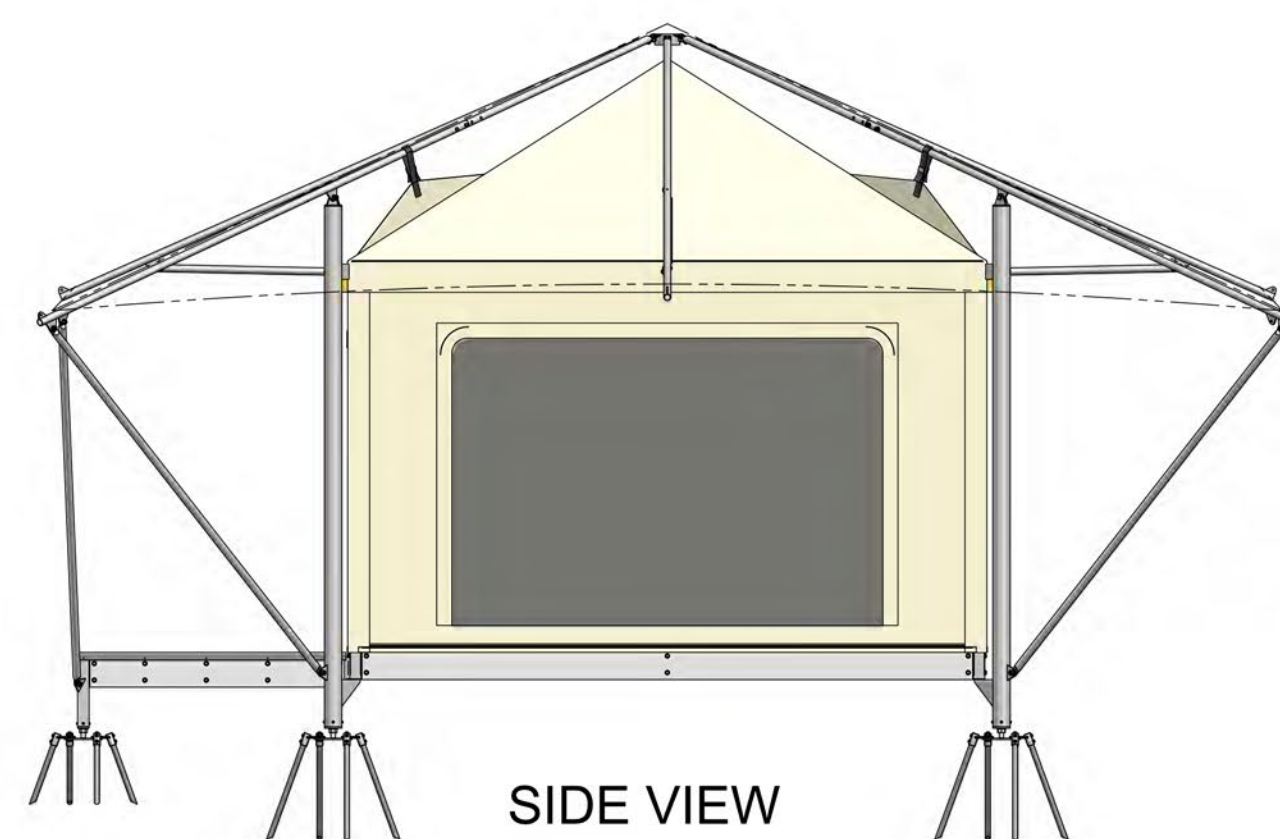
PLAN VIEW
SCALE 1:50



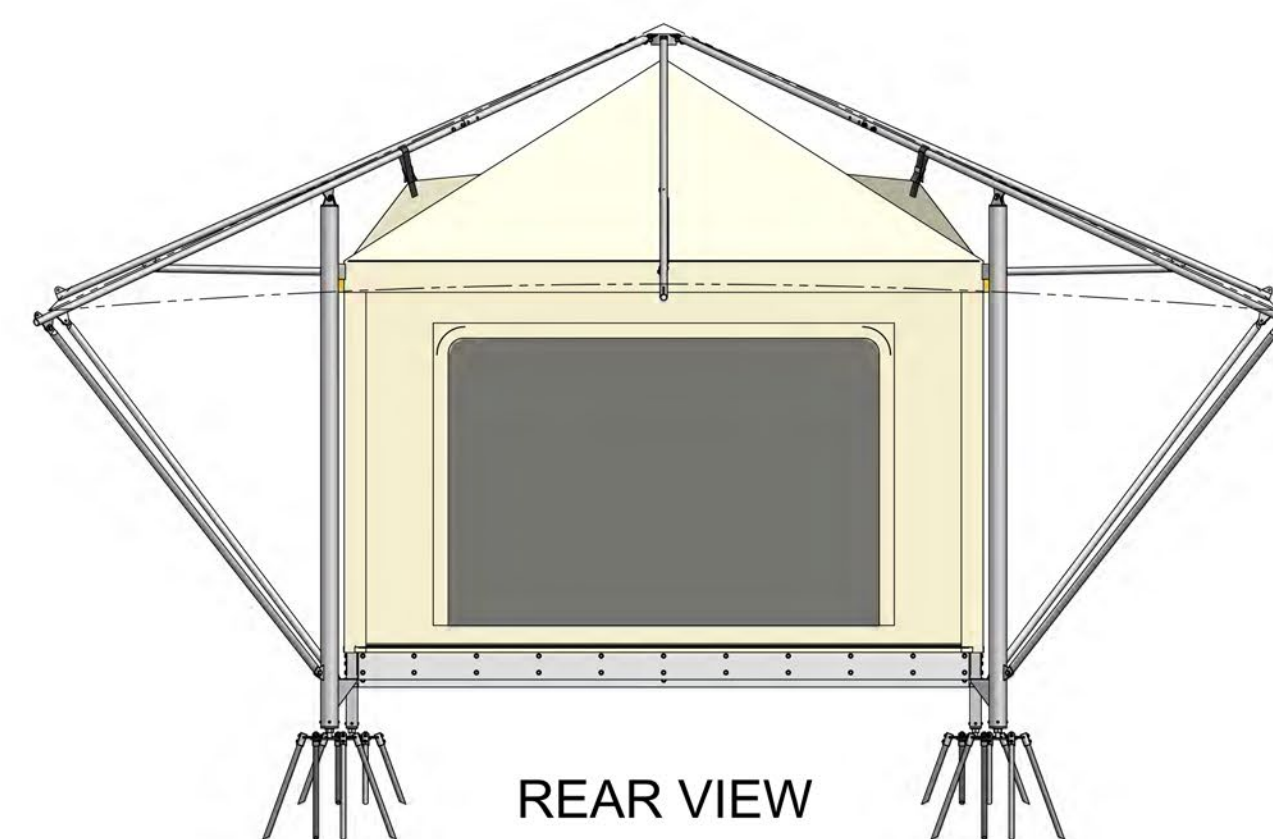
SECTION B-B
SCALE 1:50



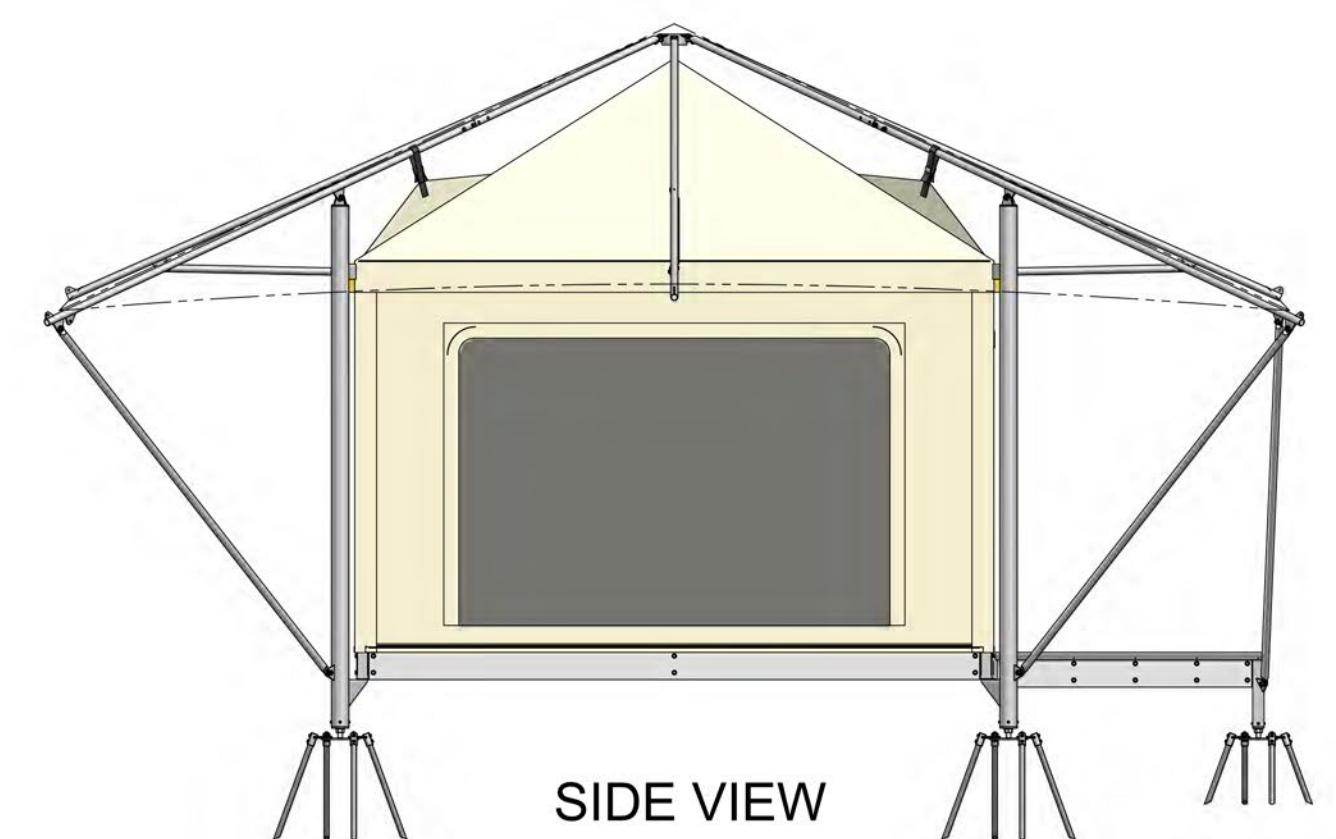
FRONT VIEW
SCALE 1:50



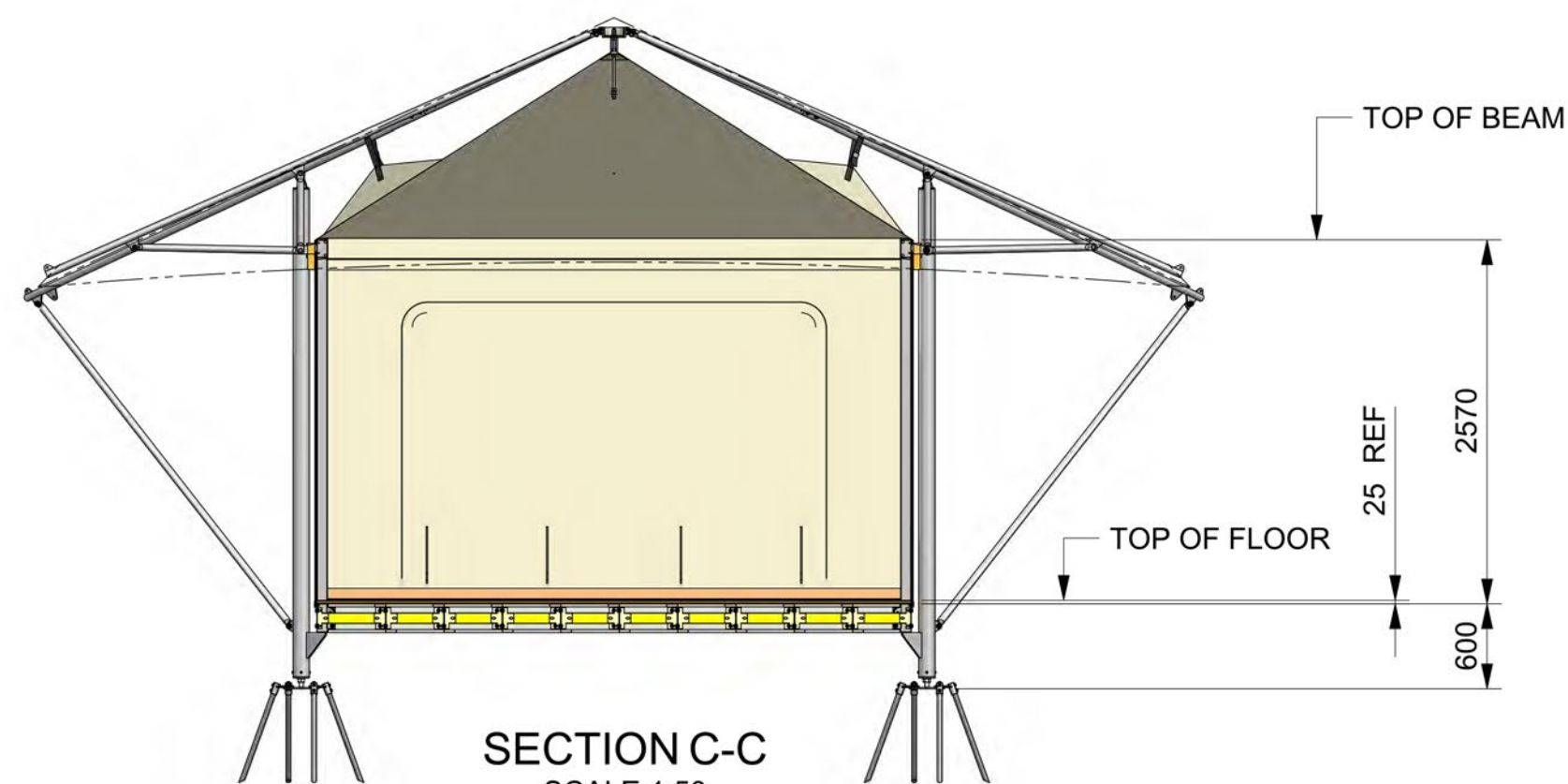
SIDE VIEW
SCALE 1:50



REAR VIEW
SCALE 1:50



SIDE VIEW
SCALE 1:50



SECTION C-C
SCALE 1:50

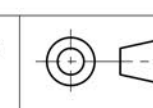
ISSUED FOR REVIEW 16 JAN 20

COPYRIGHT
This drawing is copyright and the property of MODEL-IT (WA) Pty Ltd.
It must not be retained, copied or used without the authority of
MODEL-IT (WA) Pty Ltd.

DISCLAIMER
This drawing and its contents are electronically generated, are
confidential and may only be used for the purpose for which they
were intended.
MODEL-IT (WA) Pty Ltd will not accept responsibility for any
consequences arising from the use of the drawing for other than its
intended purpose or where the drawing has been altered, amended or
changed either manually or electronically by any third party.

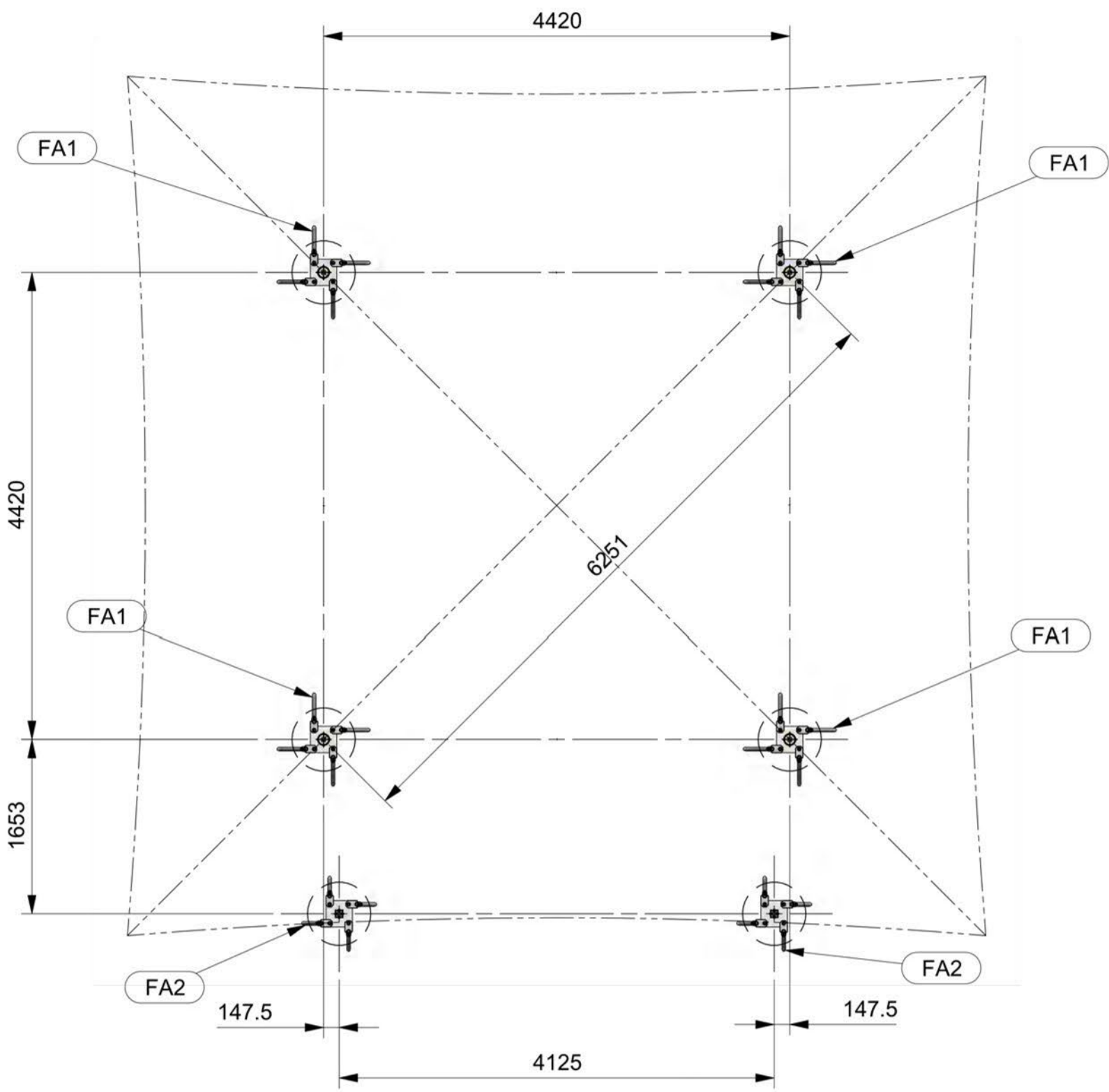
REV	DESCRIPTION	BY	DATE

DRAWN	MS	DATE	16JAN20
CHECKED		DATE	
APPROVED		DATE	
FILENAME	M1477-GA4.dwg		



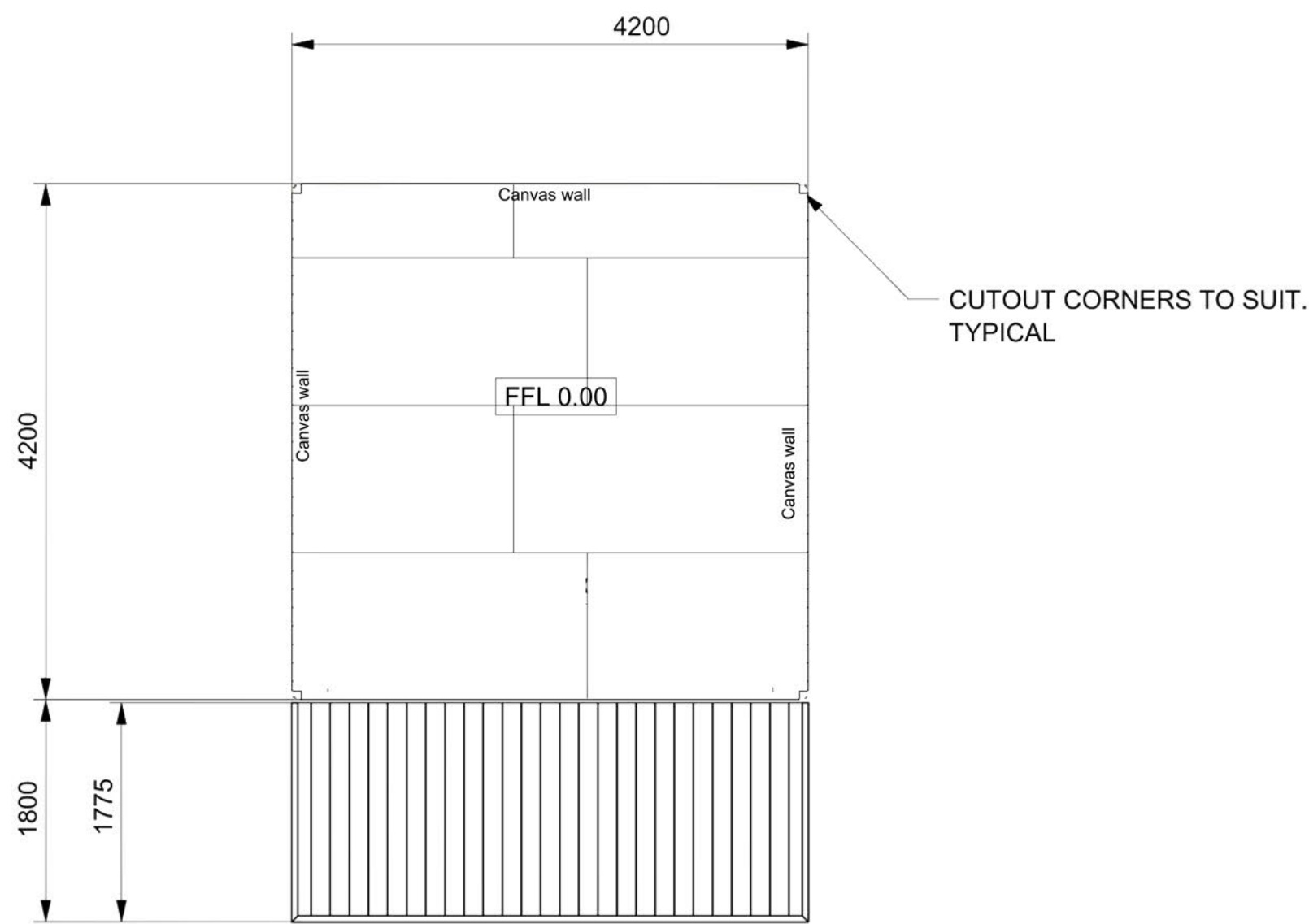
CLIENT	LAKE COWAL FOUNDATION		
CLIENT JOB NUMBER	40-0481		
TITLE	LAKE COWAL CONSERVATION CENTRE BLOW CLEAR RD, LAKE COWAL NSW 2671 AUSTRALIA 4.2m TENT WITH 1.8m DECK INSTALLATION GENERAL ARRANGEMENT		

DRAWING NUMBER	M1477-GA4		
SHEET	4 OF 5		
SHT. SIZE	SCALE	REV.	
A1	AS SHOWN	A	



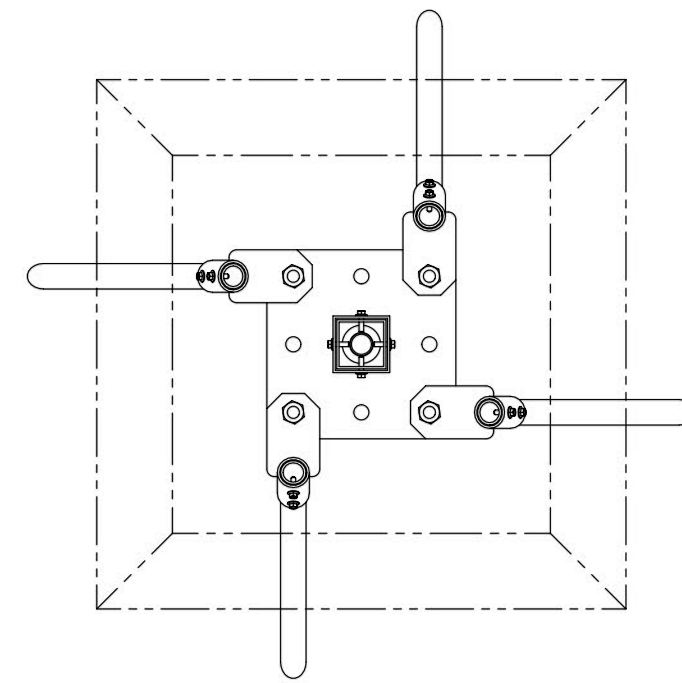
COLUMN/STUMP PLAN

SECTION A-A
SCALE 1:50



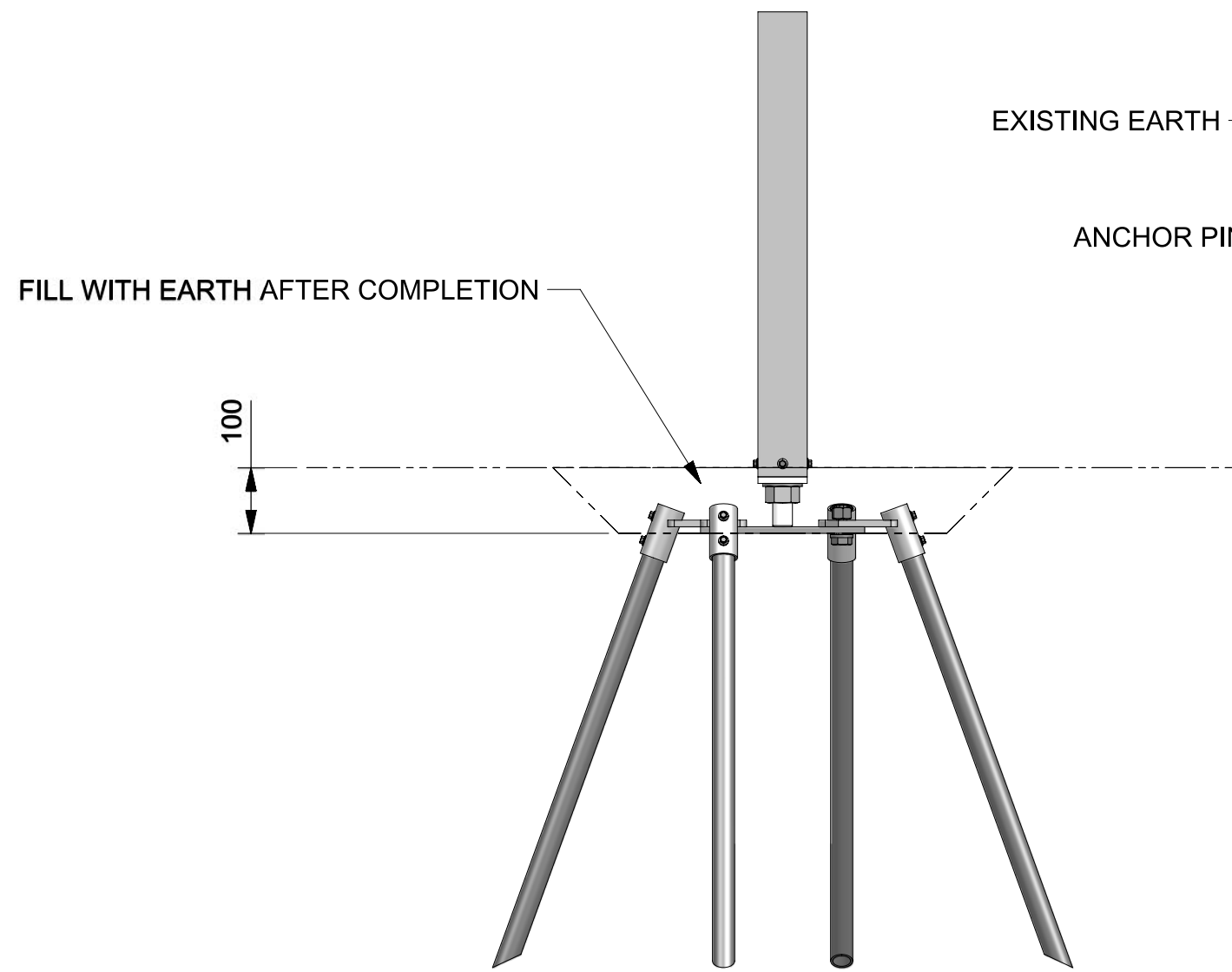
DECKING/FLOORING LAYOUT

SCALE 1:50

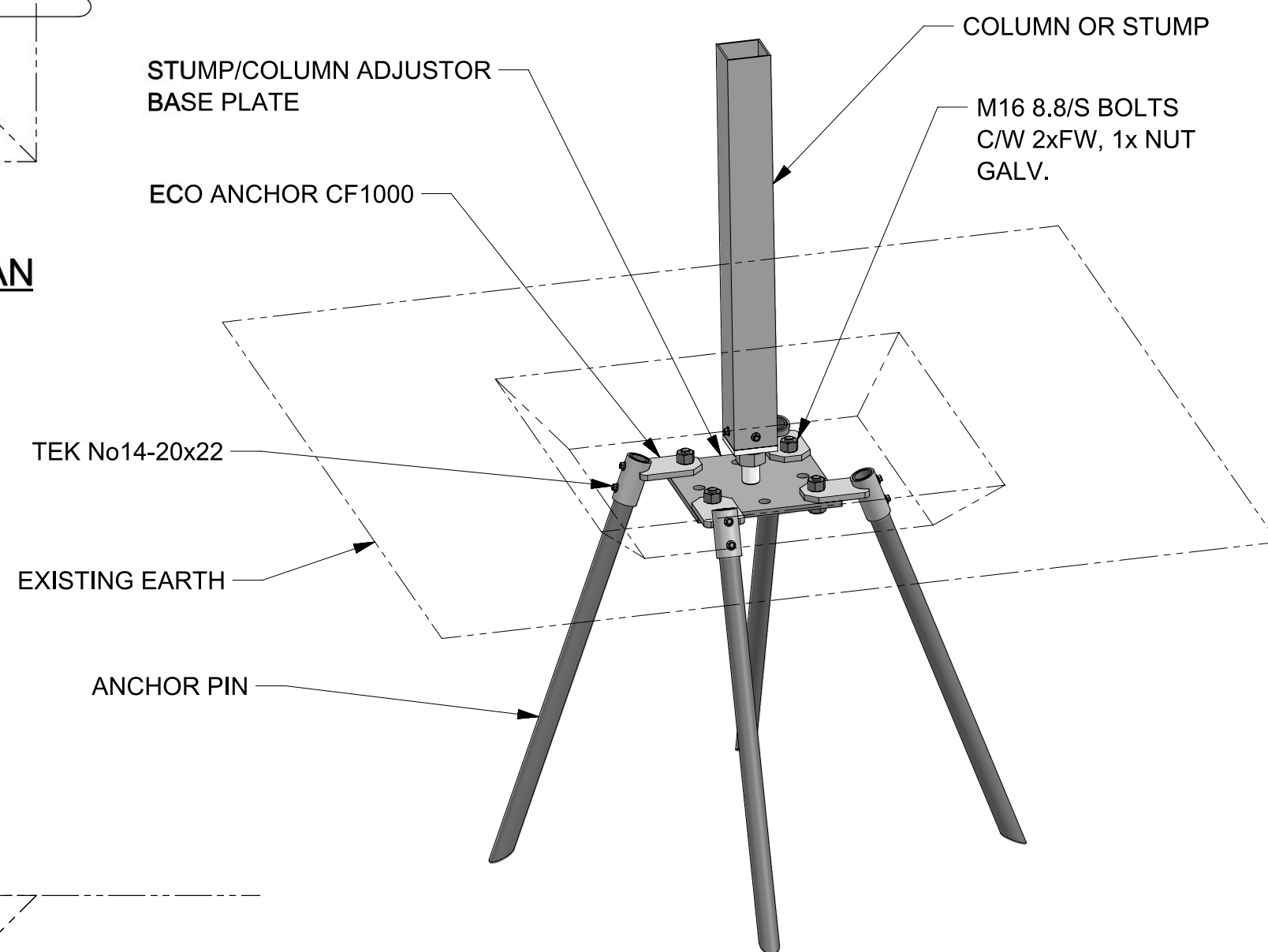


ECO ANCHOR - PLAN

SCALE 1:10



ECO ANCHOR - SIDE VIEW



ECO ANCHOR - ISOMETRIC VIEW

ECO ANCHORS TO BE INSTALLED AS PER MANUFACTURERS SPECIFICATIONS

ISSUED FOR REVIEW 16 JAN 20

COPYRIGHT
This drawing is copyright and the property of MODEL-IT (WA) Pty Ltd. It must not be retained, copied or used without the authority of MODEL-IT (WA) Pty Ltd.

DISCLAIMER
This drawing and its contents are electronically generated, are confidential and may only be used for the purpose for which they were intended. MODEL-IT (WA) Pty Ltd will not accept responsibility for any consequences arising from the use of the drawing for other than its intended purpose or where the drawing has been altered, amended or changed either manually or electronically by any third party.

REV	DESCRIPTION	BY	DATE

DRAWN	MS	DATE	16JAN20
CHECKED		DATE	
APPROVED		DATE	
FILENAME	M1477-GA4.dwg		



CLIENT	LAKE COWAL FOUNDATION		
CLIENT JOB NUMBER	40-0481		
TITLE	LAKE COWAL CONSERVATION CENTRE BLOW CLEAR RD, LAKE COWAL NSW 2671 AUSTRALIA 4.2m TENT WITH 1.8m DECK INSTALLATION GENERAL ARRANGEMENT		

DRAWING NUMBER	M1477-GA4		
SHEET	5 OF 5		
SHT. SIZE	SCALE	REV.	
A1	AS SHOWN	A	