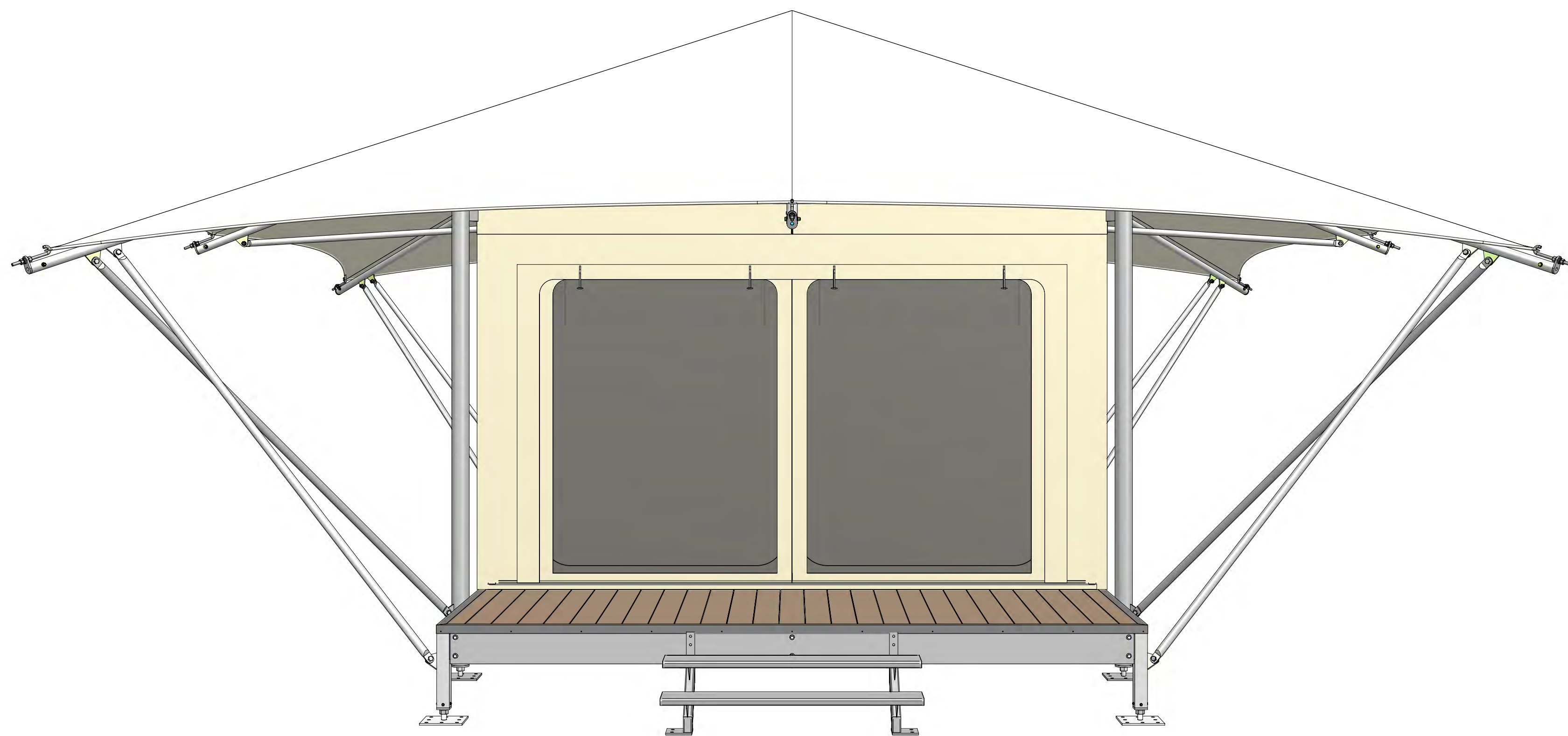


4.2m TENT 1.8m DECK & ENCLOSURE

LAKE COWAL FOUNDATION

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

REVISION A



ISSUED FOR REVIEW 16 JAN 20

- DRAWING SCHEDULE;
- M1667-GA1 - SHEET 2SPECIFICATIONS
 - M1667-GA1 - SHEET 3PARTS LISTING AND ISOMETRIC VIEWS
 - M1667-GA1 - SHEET 4ELEVATIONS
 - M1667-GA1 - SHEET 5COLUMN/STUMP PLAN & DECKING LAYOUT

***** ALL SITE AND FABRICATION DRAWINGS ARE TO BE *****
CERTIFIED BY CONTRACTED STRUCTURAL ENGINEER
PRIOR TO SITE ERECTION OF ANY STEEL WORK.

REFERENCE DRAWINGS

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 1.8m DECK & ENCLOSURE
LAKE COWAL CONSERVATION CENTRE

TITLE:

STRUCTURAL ENGINEERING DOCUMENTATION

DRAWING NUMBER

M1667-GA1

CLIENT JOB No. 40-0481

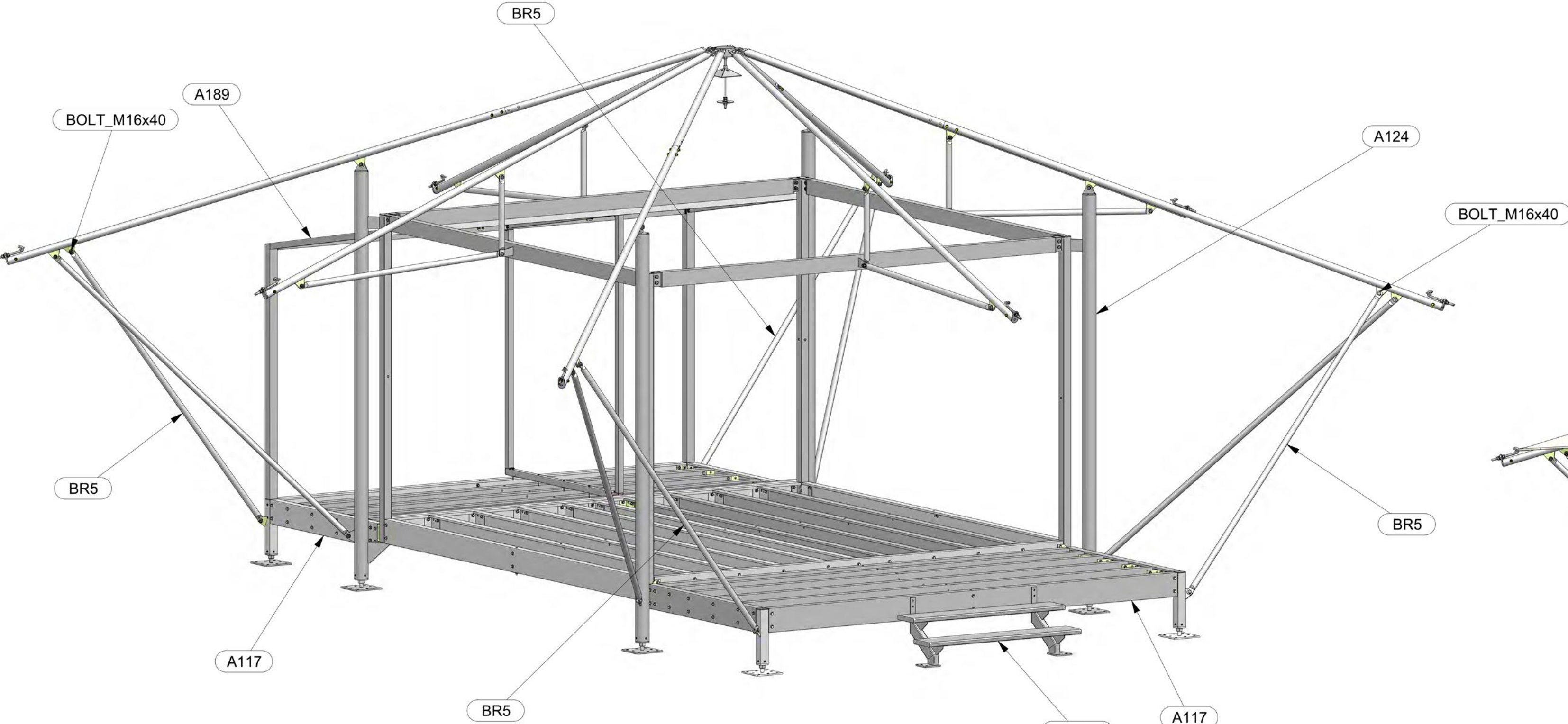
DATE: 16JAN20

REV:

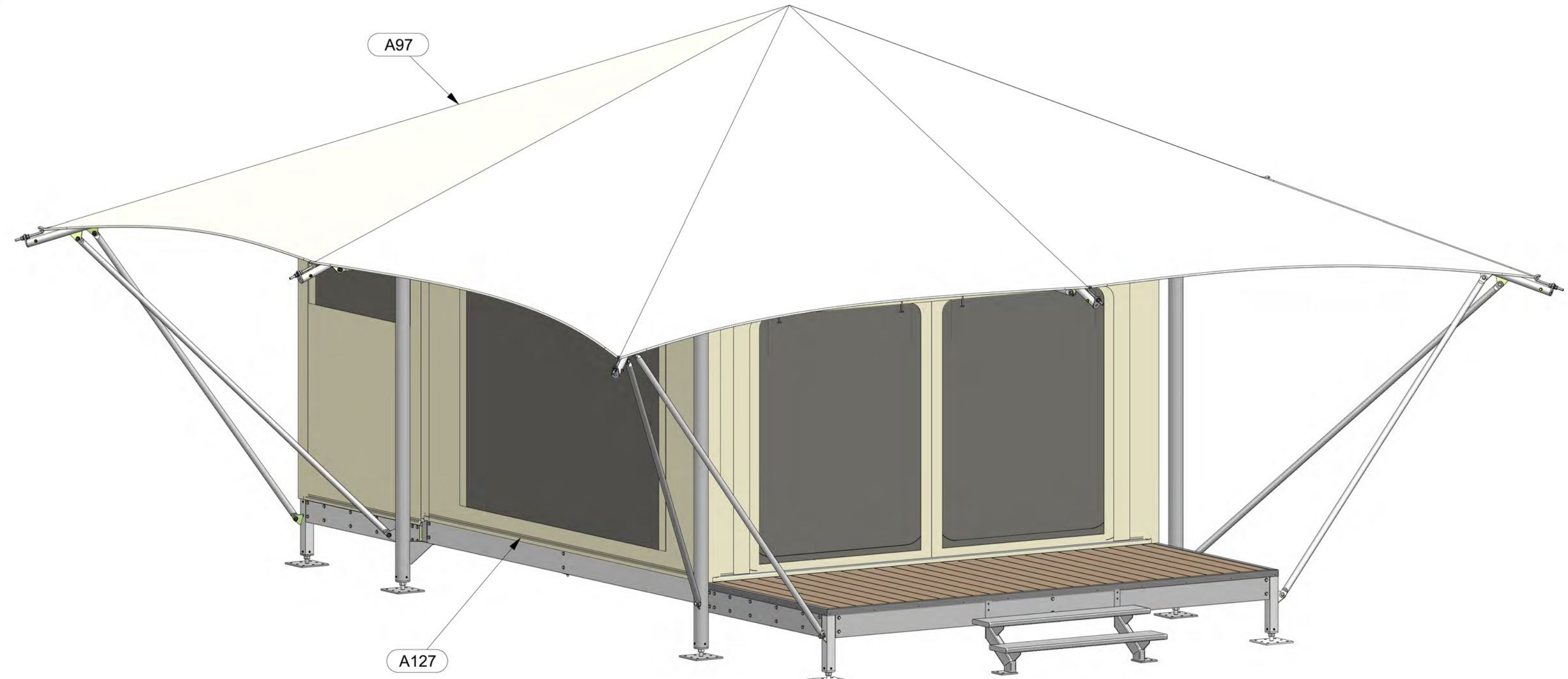
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GENERAL NOTES:						STEELWORK NOTES:			STEELWORK SURFACE TREATMENT NOTES:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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.						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 - 2011			T1 ALL STEELWORK IS TO BE TREATED FOR PROTECTION AGAINST CORROSION IN ACCORDANCE WITH AS/NZS 2312 - 2014 SUITABLE FOR LONG TERM PROTECTION IN 'MILD / MODERATE /TROPICAL / MARINE / SEVERE MARINE" ENVIRONMENTS AS DESCRIBED IN REFERENCE CLAUSE 2.2 AS FOLLOWS;																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
2. ALL DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT FOR A DECISION BEFORE PROCEEDING WITH THE WORK.						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			T2 MILD, MODERATE OR TROPICAL ATMOSPHERIC CONDITIONS SHALL BE TREATED 'GZ' HOT DIP GALVANISING IN ACCORDANCE WITH AS/NZS 4680 - 2006 HOT DIP GALVANISED (ZINC) COATINGS ON FABRICATED FERROUS ARTICLES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
3. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.						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.			T3 MARINE & SEVERE MARINE ATMOSPHERIC CONDITIONS SHALL BE TREATED 'GZLP-E' HOT DIP GALVANISING (OR EQUIVALENT) IN ACCORDANCE WITH AS/NZS 4680 - 2006 AND AS/NZS 2312:2002																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
4. REFER TO ARCHITECTURAL DRAWINGS FOR SETTING OUT DETAILS.						S4 ALL NUTS, BOLTS & WASHERS SHALL BE GALVANISED UNLESS NOTED OTHERWISE			T4 ALL DAMAGED GALVANISING SHALL BE REPAIRED BY THE APPLICATION OF A 'ZINC RICH' PAINT (AS PER AS 2204) APPLIED TO 150 MICRONS DRY FILM THICKNESS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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.						S5 ALL PROPRIETARY SELF DRILLING SCREWS (TEKS) SHALL BE "BULDEX" WITH ZACS CLASS 4 (min) CORROSION TREATMENT. CLASS 5 REQUIRED WITHIN 100m OF COAST.			T5 FLOOR BEARERS AND JOISTS - MILD, MODERATE OR TROPICAL ATMOSPHERIC CONDITIONS ALL COLD FORMED ZINC TREATED 'C' FLOOR BEARERS, JOISTS, BRIDGING PIECES AND CLEATS SHALL HAVE A MINIMUM ZINC COATING OF Z350 (350 GRAMS/SQUARE METRE)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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.						S6 PROVIDE HOLES FOR FIXING CLEATS FOR OTHER TRADES AS DIRECTED IN THE SPECIFICATIONS OR SHOWN ON THE FABRICATION DETAIL DRAWINGS			T6 FLOOR BEARERS AND JOISTS - MARINE OR SEVERE MARINE ATMOSPHERIC CONDITIONS ALL COLD FORMED ZINC TREATED 'C' FLOOR BEARERS, JOISTS, BRIDGING PIECES AND CLEATS SHALL HAVE A MINIMUM ZINC COATING OF Z450 (450 GRAMS/SQUARE METRE IN ADDITION TO ETCH PRIMER MAX 12 MICRONS THEN A TOP COAT USING HIGH-BUILD POLYURETHANE (CLEAR) (PRN#15) 125 TO 150 MICRONS DRY FILM THICKNESS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
FOUNDATION NOTES:						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.			T7 FINISH OR COSMETIC TOP COAT PAINTS MAY BE APPLIED OVER THE ABOVE EXTERNAL SURFACE TREATMENT IN ACCORDANCE WITH AS/NZS 3750.16 - 1998 PAINTS FOR STEEL STRUCTURES - WATERBORNE PRIMER AND PAINT FOR GALVANISED, ZINC/ALUMINIUM ALLOY COATED AND ZINC PRIMED STEEL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
1. FOUNDATION FOR FOOTINGS TO COMPLY WITH AS 2870-2011 CLAUSE 6.4.3. UNO AND TO SATISFY THE FOLLOWING: (a) TOP SOIL CONTAINING GRASS ROOTS OR OTHER ORGANIC MATERIALS SHALL BE REMOVED FROM THE BUILDING ENVELOPE. (b) ON SITES SUBJECT TO WIND OR WATER EROSION, THE FOUNDATION OF THE 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.						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 WARRANTY THAT ALL STEELWORK MATERIALS, GRADES, FABRICATION, FASTENERS AND TREATMENTS COMPLY WITH THE ATTACHED DESIGN DETAILS AND SPECIFICATIONS.			T8 ALL NUTS, BOLTS & WASHERS SHALL BE HOT DIP GALVANISED IN ACCORDANCE WITH AS 1214 - 2016 HOT DIP GALVANISING COATINGS ON THREADED FASTENERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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.						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			T9 ALL HOLDING DOWN BOLTS SHALL BE HOT DIP GALVANISED AND IN MARINE OR SEVERE MARINE ENVIRONMENTS HAVE AN ADDITIONAL TREATMENT OF ETCH PRIMER TO MAX 12 MICRONS PLUS A TOP COAT OF "SURFACE TOLERANT" EPOXY MASTIC TO 150 MICRONS DRY FILM THICKNESS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
3. FOOTING DESIGN TO BE CONFIRMED AND CERTIFIED BY CERTIFYING ENGINEER FOR SITE SPECIFIC CONDITIONS						S10 ALL STEELWORK TO HAVE SURFACE TREATMENTS AS PER THE ATTACHED TREATMENT NOTES			T10 RECOMMENDATION: A VISUAL INSPECTION AND GENERAL CLEANING OF THE STEELWORK BY WASHING WITH POTABLE WATER AND MILD DETERGENTS TO REMOVE SALTS AND OTHER DELETERIOUS CONTAMINANTS BE CONDUCTED AT LEAST ANNUALLY. ANY SIGNS OF CORROSION OR DETERIORATION OF THE STEELWORK AND FASTENERS SHALL BE REPAIRED ACCORDING TO THE RECOMMENDATIONS OF AS/NZS 2312-2014 OR OTHER APPLICABLE STANDARDS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
4. FOOTING DESIGNED FOR LOADING DERIVED FROM AS1170.2 FOR MAX WIND SPEED OF 20m/s WITH FULL FABRIC WALLING AND ROOFING IN PLACE AND AS PER FULL REGIONAL WIND LOADING WITH ALL FABRIC WALLING AND ROOFING REMOVED.						SITE WELDING NOTES:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
CONCRETE 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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
1. ALL CONCRETE WORK TO BE IN ACCORDANCE WITH AS3600.						RECOMMENDED 2 PACK EPOXY ZINC RICH PRIMERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
2. OBTAIN CONCRETE FROM AN APPROVED PRE-MIXED CONCRETE SUPPLIER, UNLESS APPROVAL HAS BEEN OBTAINED FROM THE STRUCTURAL ENGINEER TO USE SITE MIXED CONCRETE.						a) "AMERON COATING" 'AMERCOAT 307' TWO PACK EPOXY ZINC RICH PRIMER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
3. ALL SUPPLIED CONCRETE IN ACCORDANCE WITH THE TABLE BELOW						b) "DULUX" 'ZINCANODE 202' TWO PACK EPOXY ZINC RICH PRIMER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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<div>STRUCTURAL REFERENCES</div> <div>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:</div> <div><div>- AS/NZS 1170.0: 2002 GENERAL PRINCIPLES</div><div>- AS/NZS 1170.1: 2002 PERMANENT IMPOSED AND OTHER ACTIONS</div><div>- AS/NZS 1170.2: 2011 WIND ACTIONS</div><div>- AS 1170.4-2007 EARTHQUAKE ACTIONS IN AUSTRALIA</div><div>- AS 3600-2009 CONCRETE STRUCTURES</div><div>- AS 2870-2011 RESIDENTIAL SLABS AND FOOTINGS-CONSTRUCTION</div><div>- AS 4100-1998 STEEL STRUCTURES</div><div>- AS 4600-2005 COLD FORMED STEEL STRUCTURES</div></div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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ECO STRUCTURES AUST 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.</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td 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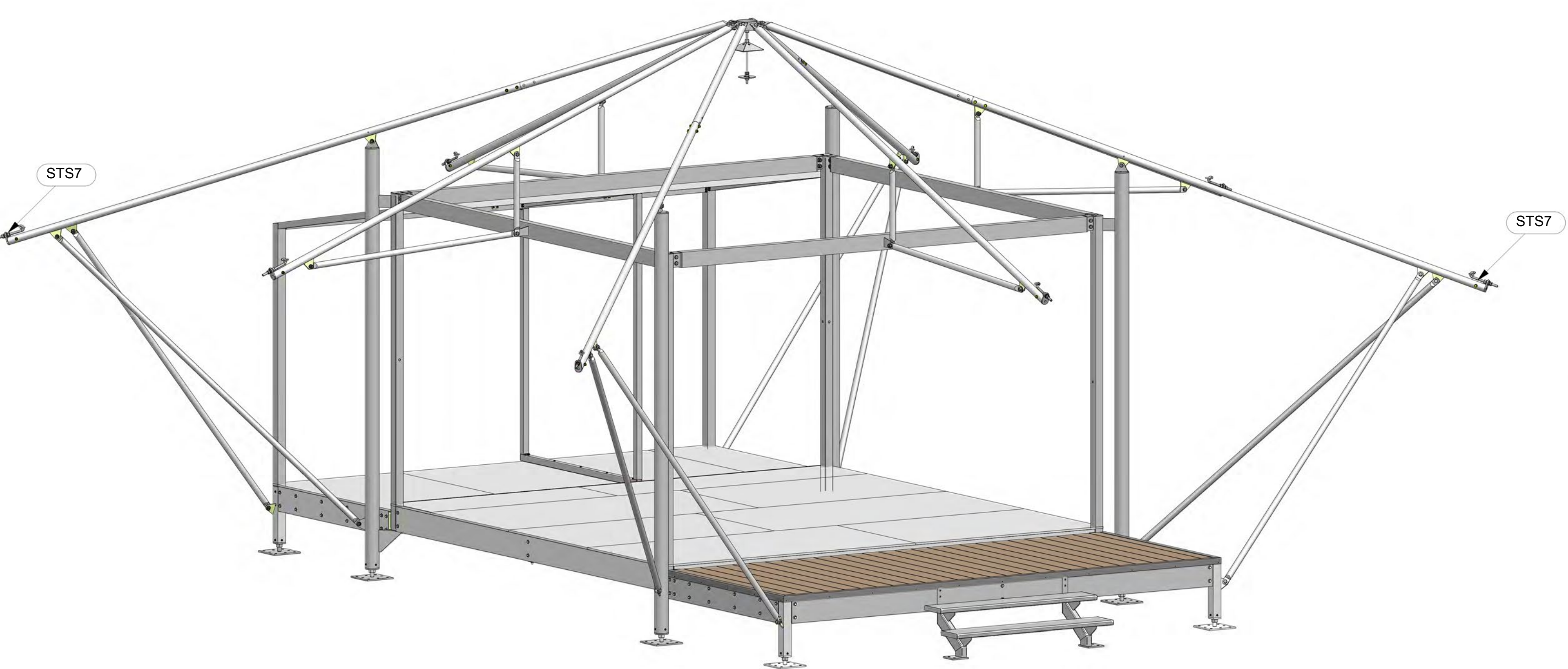
MATERIAL LIST FOR ONE ASSEMBLY:					
FILENAME	MARK/ITEM	QTY	DESCRIPTION	CODE	WEIGHT (kg) PER ITEM
M1031_A117	A117	2	DECK STEEL KIT 4.2x1.8m	MANU	165.72
M1031_A124	A124	1	TENT 4.2x4.2 STEEL STRUCTURE STANDARD	-	896.221
M1031_A127	A127	1	CANVAS KIT 4.2m	-	-
M1046_A189	A189	1	ENCLOSURE STEELWORK ASSY	-	86.84
M1046_A269	A269	1	ENCLOSURE CANVAS KIT 4.2x1.8m	-	-
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	ST57	8	SAIL TENSIONER SPIGOT	FASTENER	0.007



ISOMETRIC VIEW 1 - FRONT



ISOMETRIC VIEW 3 - FRONT



ISOMETRIC VIEW 2 - FRONT



ISOMETRIC VIEW 4 - REAR

PVC SHADE SAIL SHOWN TRANSLUCENT FOR PICTORIAL PURPOSES ONLY

ISSUED FOR REVIEW 16 JAN 20

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REV	DESCRIPTION	BY	DATE



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Email: sales@ecostructures.com.au Web: www.ecostructures.com.au
Mobile: 0439 888 818 ABN: 76 112 623 284

DRAWN	MS	DATE	16JAN20
CHECKED		DATE	
APPROVED		DATE	
FILENAME: M1667-GA1.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 1.8m DECK & ENCLOSURE
INSTALLATION GENERAL ARRANGEMENT

DRAWING NUMBER		SHEET 3 OF 5		REV: A
M1667-GA1		A1	AS SHOWN	




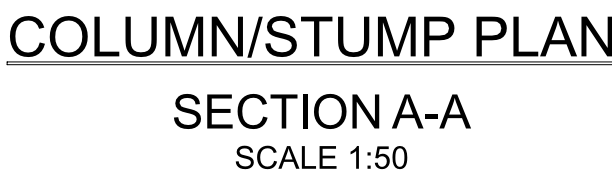
ECO STRUCTURES
AUSTRALIA

PO Box 324 SOUTH FREMANTLE WA 6162

Email: sales@ecostructures.com.au Web: www.ecostructures.com.au

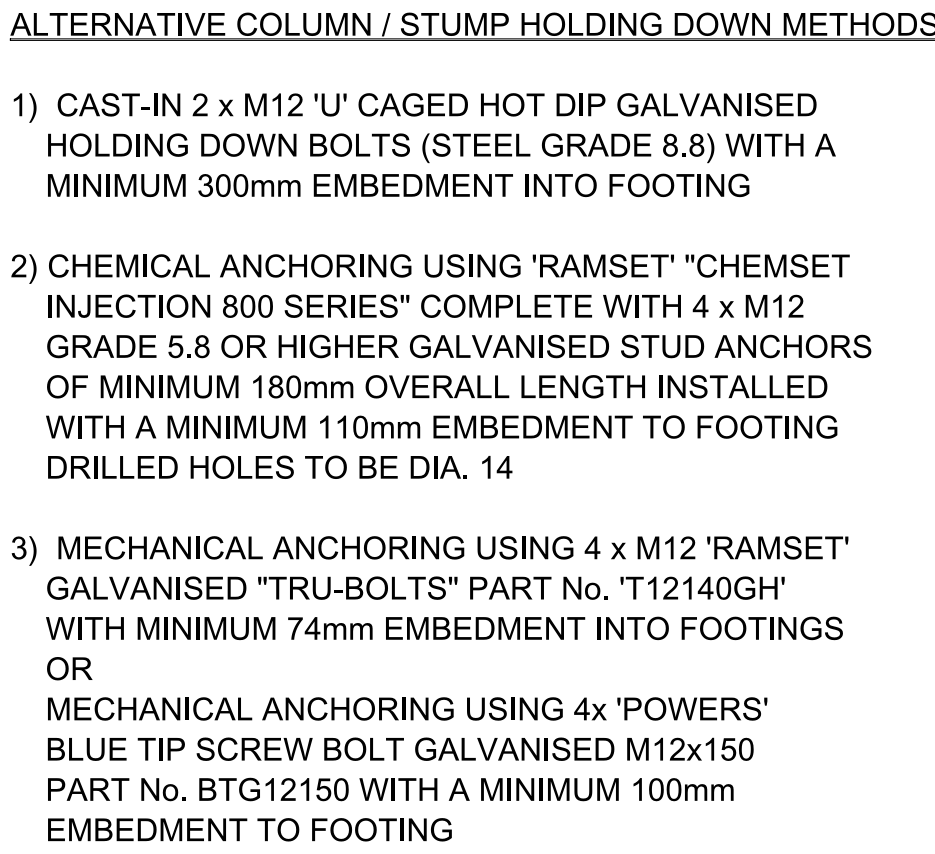
Mobile: 0416 658 818 ARN: 76 112 623 364

DRAWN	MS	DATE	16/JAN/20	CLIENT:	LAKE COWAL FOUNDATION		DRAWING NUMBER		
CHECKED		DATE		CLIENT JOB NUMBER:	40-0481		M1667-GA1		
APPROVED		DATE							
FILENAME: M1667-GA1.dwg				TITLE: LAKE COWAL CONSERVATION CENTRE BLOW CLEAR RD, LAKE COWAL NSW 2671 AUSTRALIA 4.2m TENT 1.8m DECK & ENCLOSURE INSTALLATION GENERAL ARRANGEMENT					
ANY DISCREPANCIES ARE TO BE REPORTED BACK TO MODEL-IT. IF IN DOUBT ASK.						SHT SIZE A1		SCALE AS SHOWN	REV: A



CONCRETE AND REINFORCEMENT NOTES:

1. ALL CONCRETE MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH AS3600-2009.
2. OBTAIN CONCRETE FROM AN APPROVED READY MIXED CONCRETE SUPPLIER, UNLESS APPROVAL HAS BEEN OBTAINED FROM CONTRACTED STRUCTURAL ENGINEER TO USE SITE MIXED CONCRETE.
3. ALL CONCRETE FOR FOOTINGS TO GRADE N25.
4. ALTERNATIVE FOOTINGS OR ANCHORING METHODS ARE TO APPROVED BY CONTRACTED ENGINEER.
5. FOOTING DESIGN TO BE CONFIRMED AND CERTIFIED BY CERTIFYING ENGINEER FOR SITE SPECIFIC CONDITIONS.
6. FOOTING DESIGNED FOR LOADING DERIVED FROM AS1170.2 FOR MAX WIND SPEED OF 20m/s WITH FULL FABRIC WALLING AND ROOFING IN PLACE AND AS PER FULL REGIONAL WIND LOADING WITH ALL FABRIC WALLING AND ROOFING REMOVED.
7. MAXIMUM FLOOR HEIGHT ABOVE GROUND LEVEL TO BE 600mm. FOR HEIGHTS ABOVE THIS, SUB FLOOR CROSS BRACING IS REQUIRED. CROSS BRACING LAYOUT AND FOOTINGS SHALL BE DESIGNED AND CERTIFIED BY CERTIFYING ENGINEER FOR SITE SPECIFIC CONDITIONS.



ISSUED FOR REVIEW 16 JAN 20