

PLANNING APPLICATION FORM

Section 57 & 58

OFFICE USE
ONLY

Application Number PA2025362

Assess No: A13777

PID No: 9554439

APPLICANT DETAILS

Applicant Name:	S. O'Mara		
Postal Address:			
Contact Phone:	Home	Work	Mobile
Email Address:			

Note: Full name(s) of person(s) or company making the application and postal address for correspondence.

LAND DETAILS

Owner/Authority Name: (as per certificate of title)	
Location / Address:	1335 GREENS BEACH RD, KELSO TAS 7270
Title Reference:	183539 / 2
Zone(s):	11.0 RURAL LIVING.
Existing Development/Use:	VACANT LAND
Existing Developed Area:	Area 84,480m ²

DEVELOPMENT APPLICATION DETAILS

Proposed Use:	Residential: ☒	Visitor Accommodation: ☐	Commercial: ☐
	Other:		
Development Type:	Building work: ☒	Demolition: ☐	Subdivision: ☐
	Other:		
New or Additional Area:	Area 464m ² - DWELLING		
Estimated construction cost of the proposed development:	\$		
Building Materials:	Wall Type: FC / LIGHTWEIGHT	Colour: GREY / WHITE	
	Roof Type: COLORBOND	Colour: MONUMENT	

WEST TAMAR COUNCIL

Application Number: «Application Number» _____

SUBDIVISION	☐ N/A
--------------------	------------------------------

Subdivision creating additional lots ☐
 Boundary adjustment with no additional lots created ☐

Number of Lots (existing) :		Number of Lots (proposed) :	
Description:			
If applying for a subdivision which creates a new road(s), please supply three proposed names for the road(s), in order of preference:			
1.			
2.			
3.			

NON-RESIDENTIAL DEVELOPMENT/USE	☐ N/A
--	------------------------------

Hours of Operation:	Monday / Friday:		To	
	Saturday:		To	
	Sunday:		To	

Existing Car Parking:	
Proposed Car Parking:	

Number of Employees: <i>(Existing)</i>	
Number of Employees: <i>(Proposed)</i>	

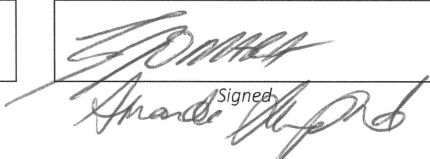
Type of Machinery installed:	
Details of trade waste and method of disposal:	

WEST TAMAR COUNCIL

Application Number: «Application Number»

APPLICANT DECLARATION

Owner: As the owner of the land, I declare that the information contained in this application is a true and accurate representation of the proposal and I consent to this application being submitted and for Council Officers to conduct inspections as required for the proposal,

SHANE DAVID O'MARA Name (print)	 Signed	18/9/25 Date
Amanda Shepherd		18/9/25

Applicant: As the applicant, I declare that I have notified the owner of my intention to make this application and that the information contained in this application is a true and accurate representation of the proposal,
(if not the owner)

Amanda Shepherd Name (print)	 Signed	18/9/25 Date
---------------------------------	--	-----------------

Please Note: If the application involves Crown Land you will need to provide a letter of consent and this form signed by the Minister, or a delegated officer of the Crown with a copy of the delegation.

Crown Consent (if required)	 Name (print)	 Signed	 Date
---------------------------------------	------------------	------------	----------

General Manager (if required)	 Name (print)	 Signed	 Date
---	------------------	------------	----------

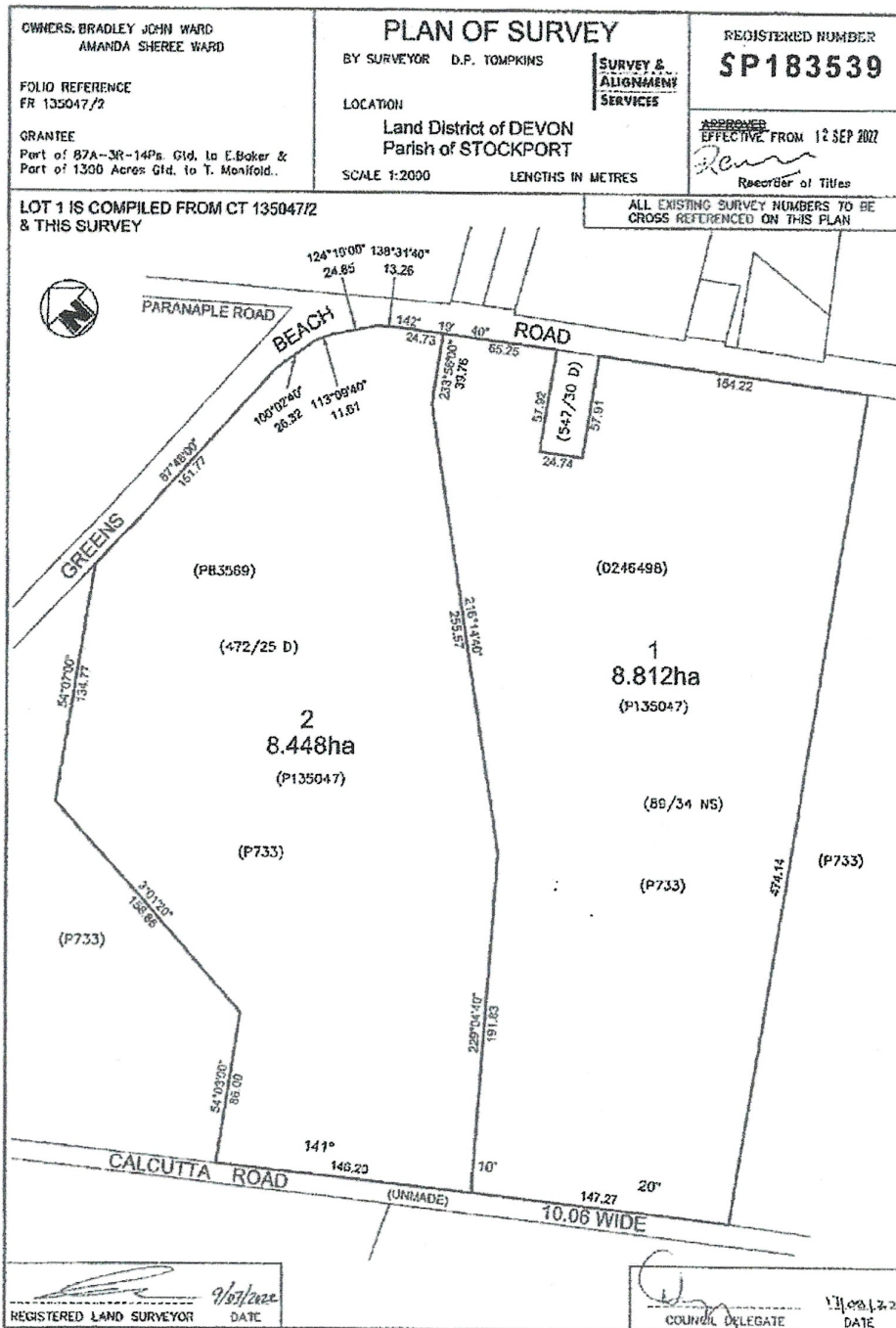
If the subject site is accessed via a right of way, the owner of the ROW must also be notified of the application.

Right of Way Owner:

--

As the applicant, I declare that I have notified the owner of the land encumbered by the Right Of Way, of my intent to lodge this application that will affect their land.

 Name (print)	 Signed	 Date
------------------	------------	----------



[Handwritten signature]
 T.O.

NEW DWELLING AND OUTBUILDINGS

at 1335 GREENS BEACH ROAD, KELSO TAS 7270

for S O'MARA & A SHEPHERD

REQUIRED APPROVAL STAMPS - BUILDING SURVEYOR / PERMIT AUTHORITY

NOTE: THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS THEY ARE STAMPED BY THE BUILDING SURVEYOR AND/OR PERMIT AUTHORITY

PROJECT NUMBER:
25068

PROPERTY ID:
9554439

LAND TITLE, VOLUME & FOLIO
CT - 183539/2

SITE AREA:
84,480m²

FLOOR AREAS:
DWELLING FLOOR AREA - ***m²
OUTBUILDING FLOOR AREA - ***m²

COUNCIL:
WEST TAMAR

SCHEME / ZONE:
11.0 RURAL LIVING

SCHEME / ZONE OVERLAYS:
BUSHFIRE PRONE
WATERWAY & COASTAL PROTECTION
PRIORITY VEGETATION

SITE CLASSIFICATION: S & M

WIND CLASSIFICATION: N2

BUSHFIRE ATTACK LEVEL: BAL 12.5

TERRAIN CLASSIFICATION: TC2

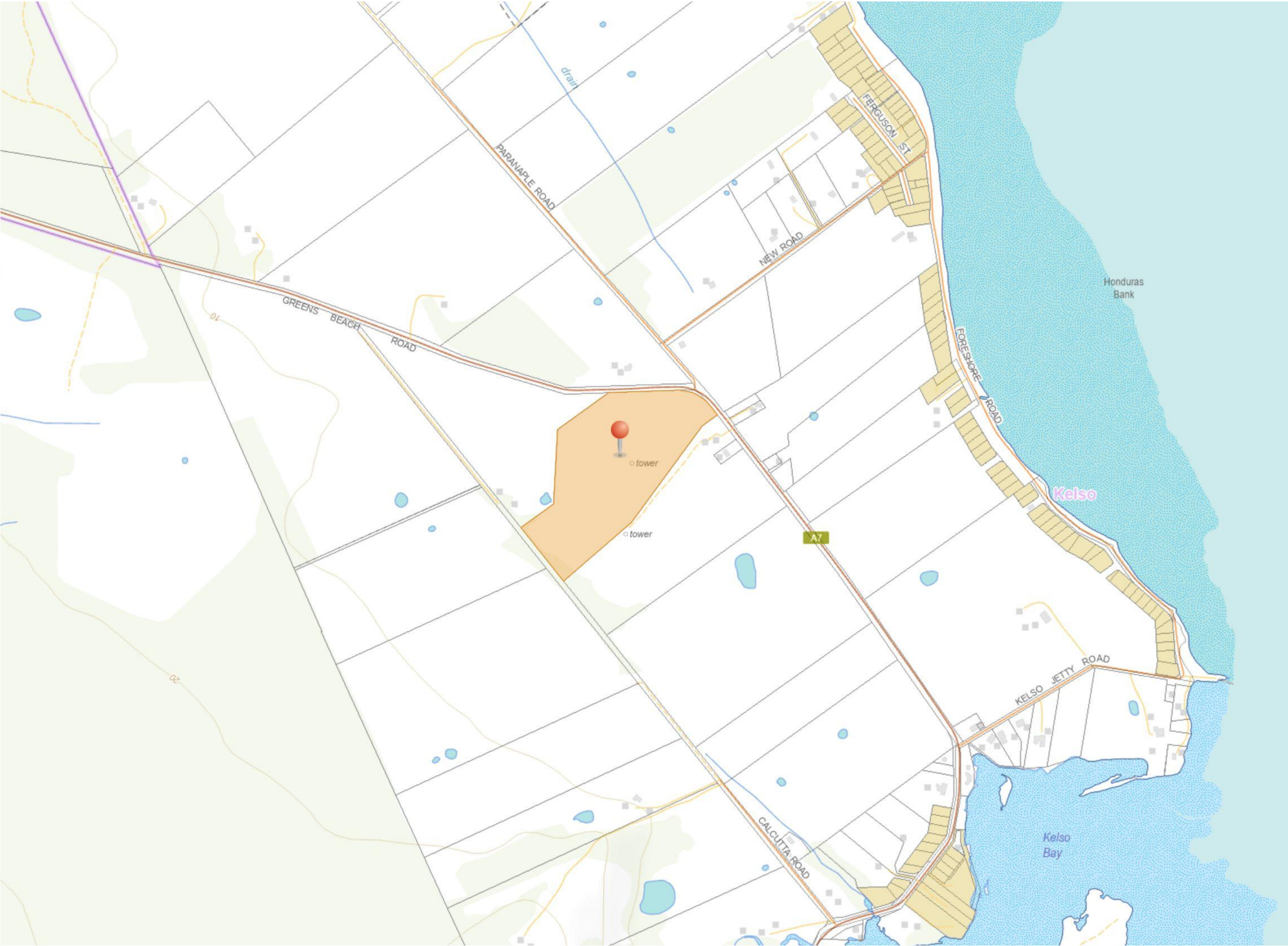
WIND REGION: A3

CLIMATE ZONE: 7

CORROSION ENVIRONMENT: ***

ALPINE AREA: N/A

PRINT DATE:
17/11/2025



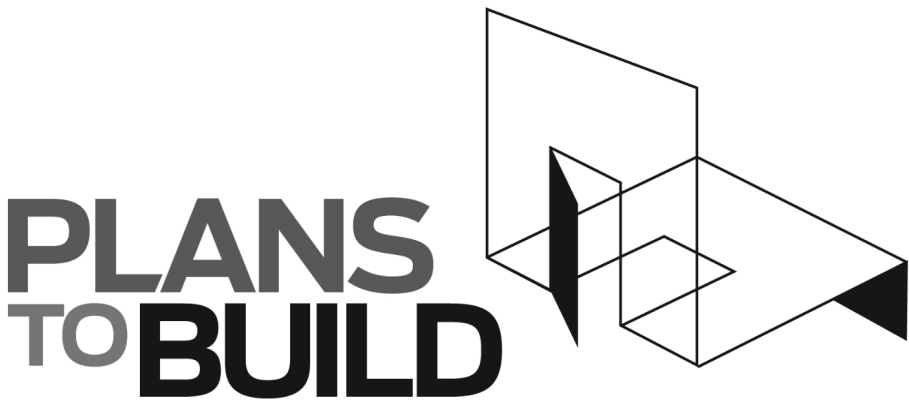
LOCATION PLAN

DRAWING SCHEDULE

- A00 COVER PAGE
- A01 OVERALL SITE PLAN
- A02 PART SITE PLAN
- A03 FLOOR PLANS
- A04 ELEVATIONS



MEMBER
you're in good hands



ABN 23 269 055 701
Level 1 Holyman House, 52-60 Brisbane St,
Launceston, Tasmania, 7250.
Tel - 6388 9914 - Mob - 0488 377 937
Email - jackson@planstobuild.com.au
J.E.YOUNG LIC. No. 674 563 705

GENERAL NOTES:

IN ACCORDANCE WITH THE N.C.C.S BUILDING CODE OF AUSTRALIA VOLUME TWO, ALL BUILDING WORK SHALL BE IN STRICT COMPLIANCE WITH COUNCIL LAWS, REFERENCED AUSTRALIAN STANDARDS, BUILDING ACTS & REGULATIONS REFER ALSO TO THE GENERAL REQUIREMENTS PAGE.

THE BUILDER SHALL SECURE AND MAKE SAFE THE WORKSITE IN ACCORDANCE WITH WORK SAFE TASMANIA & WHS GUIDELINES & REGULATIONS.

THE BUILDER SHALL CARRY OUT DIAL BEFORE YOU DIG REFERRAL FOR LOCATIONS OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCING ANY EARTHWORKS.

THE BUILDER SHALL INSTALL SILT TRAPS & SCREENS AT THE PROPERTY BOUNDARY TO PREVENT SILT RUNOFF INTO THE COUNCIL MAIN SYSTEM FOR THE DURATION OF SITE WORKS.

THE BUILDER SHALL BE RESPONSIBLE FOR THE CORRECT SETOUT OF ALL WORKS. A LAND SURVEYOR IS RECOMMENDED BY THE DESIGNER FOR ALL SETOUT. USE FIGURED DIMENSIONS IN PREFERENCE TO SCALED DIMENSIONS.

ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ENGINEERING DRAWINGS AND SPECIFICATIONS. THE DESIGNER SHALL BE NOTIFIED OF ANY DISCREPANCIES WITH THE DRAWINGS.

ALL FITTINGS & FIXTURES INSTALLED SHALL BE PURCHASED AS NEW CONDITION & QUALITY & CARRY THE RELEVANT AUSTRALIAN STANDARD, AND CODEMARK & WATERMARK COMPLIANCES.

rev. Amendment		Date
DRAWING No:		ISSUE: SCHEMATIC
A00		REV: 0



OVERALL SITE PLAN
SCALE 1:1000

North 0m 10000 20000 30000 40000 50000

NEW DWELLING AND OUTBUILDINGS
1335 GREENS BEACH ROAD, KELSO TAS 7270

SITE PLAN NOTES

SURFACE AND SUBSURFACE DRAINAGE SYSTEMS
IN ACCORDANCE WITH PART D2, NCC PLUMBING CODE OF AUSTRALIA VOLUME THREE THE DESIGN, CONSTRUCTION AND INSTALLATION OF A STORMWATER DRAINAGE SYSTEM MUST BE IN ACCORDANCE WITH AS/NZS 3500.3

SOIL AND WATER MANAGEMENT
PRIOR TO THE COMMENCEMENT OF THE DEVELOPMENT WORKS THE APPLICANT OR BUILDER MUST INSTALL ALL NECESSARY SILT FENCES AND CUT-OFF DRAINS TO PREVENT THE SOIL, GRAVEL AND OTHER DEBRIS FROM ESCAPING THE SITE. ADDITIONAL WORKS MAY BE REQUIRED ON COMPLEX SITES.

NO MATERIAL OR DEBRIS IS TO BE TRANSPORTED ONTO THE ROAD RESERVE (INCLUDING THE NATURE STRIP, FOOTPATH AND ROAD PAVEMENT). ANY MATERIAL THAT IS DEPOSITED ONTO THE ROAD RESERVE AS A RESULT OF THE DEVELOPMENT ACTIVITY IS TO BE REMOVED BY THE APPLICANT OR BUILDER.

THE SILT FENCING, CUT-OFF DRAINS AND OTHER WORKS TO MINIMIZE EROSION ARE TO BE MAINTAINED ON THE SITE UNTIL SUCH TIME AS THE SITE HAS REVEGETATED SUFFICIENTLY TO MITIGATE EROSION AND SEDIMENT TRANSPORT.

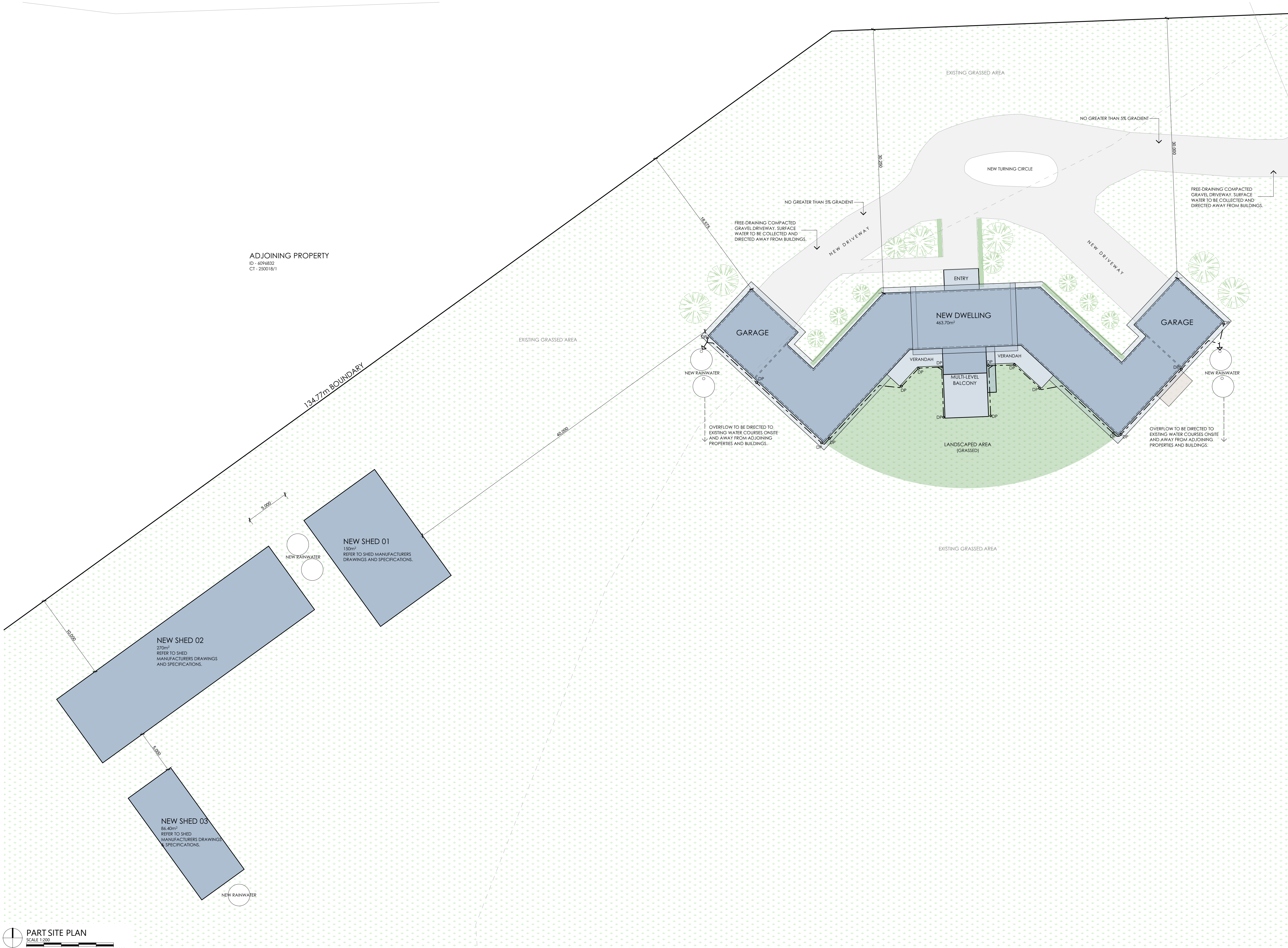
PROJECT NUMBER: 25068		SCALE: IF IN DOUBT ASK SCALE @ A1	PRINT DATE: 17/11/2025
DRAWING No: A01		ISSUE: SCHEMATIC	REV: 0

PLANS TO BUILD

ANN 23 219 955 701
Level 1 Holman House, 52-60 Brisbane St,
Launceston, Tasmania, 7250.
Tel: +6388 9914 • Mob: +0488 377 937
Email: jackson@plantobuild.com.au
J.E.YOUNG UIC No. 674 563 705

Owner:
S O'MARA & A SHEPHERD

REV: Amendment	Date



SITE PLAN NOTES

SURFACE AND SUBSURFACE DRAINAGE SYSTEMS
IN ACCORDANCE WITH PART D2, NCC PLUMBING CODE OF AUSTRALIA VOLUME THREE THE DESIGN, CONSTRUCTION AND INSTALLATION OF A STORMWATER DRAINAGE SYSTEM MUST BE IN ACCORDANCE WITH AS/NZS 3500.3

SOIL AND WATER MANAGEMENT
PRIOR TO THE COMMENCEMENT OF THE DEVELOPMENT WORKS THE APPLICANT OR BUILDER MUST INSTALL ALL NECESSARY SILT FENCES AND CUT-OFF DRAINS TO PREVENT THE SOIL, GRAVEL AND OTHER DEBRIS FROM ESCAPING THE SITE. ADDITIONAL WORKS MAY BE REQUIRED ON COMPLEX SITES.

NO MATERIAL OR DEBRIS IS TO BE TRANSPORTED ONTO THE ROAD RESERVE INCLUDING THE NATURE STRIP, FOOTPATH AND ROAD PAVEMENT). ANY MATERIAL THAT IS DEPOSITED ONTO THE ROAD RESERVE AS A RESULT OF THE DEVELOPMENT ACTIVITY IS TO BE REMOVED BY THE APPLICANT OR BUILDER.

THE SILT FENCING, CUT-OFF DRAINS AND OTHER WORKS TO MINIMISE EROSION ARE TO BE MAINTAINED ON THE SITE UNTILL SUCH TIME AS THE SITE HAS REVEGETATED SUFFICIENTLY TO MITIGATE EROSION AND SEDIMENT TRANSPORT.

North

PART SITE PLAN
SCALE 1:200
0m 2000 4000 6000 8000 10000

NEW DWELLING AND OUTBUILDINGS
1335 GREENS BEACH ROAD, KELSO TAS 7270

NOTE: THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS THEY ARE STAMPED BY THE BUILDING SURVEYOR (BLS) OR PERMIT AUTHORITY.

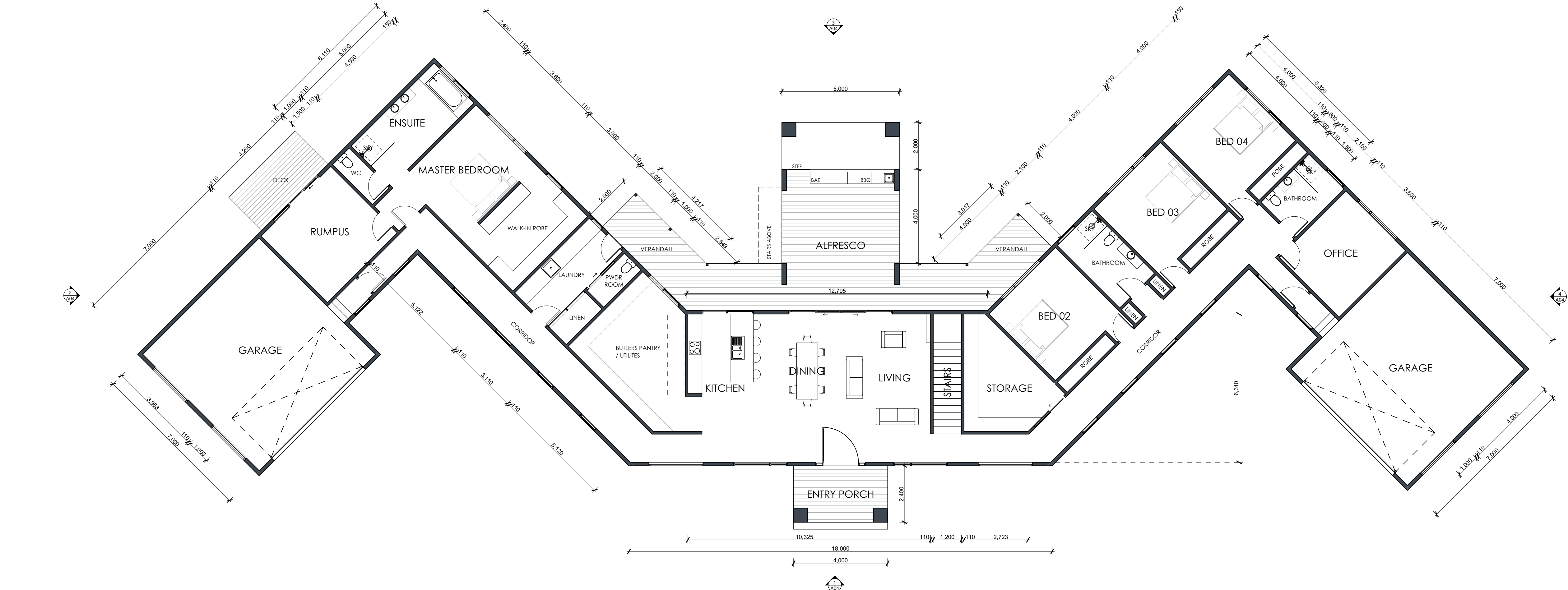
PROJECT NUMBER: 25068	SCALE: IF IN DOUBT ASK SCALE @ A1	PRINT DATE: 17/11/2025	DRAWING No: A02	ISSUE: SCHEMATIC REV: 0
--------------------------	--------------------------------------	---------------------------	--------------------	----------------------------

PLANS
TOBUILD

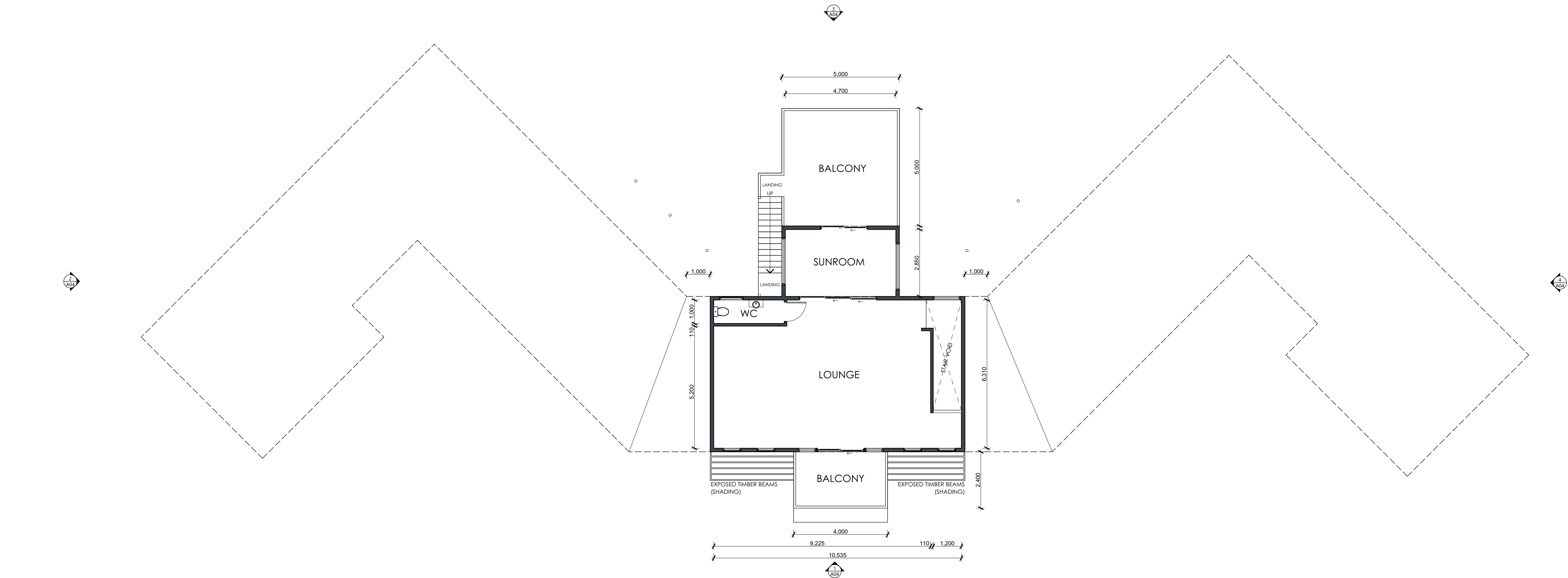
ANN 23 249 965 701
Level 1 Holman House, 52-60 Brisbane St,
Launceston, Tasmania, 7250.
Tel: 6388 9914 • Mob: 0488 377 937
Email: jackson@plantobuild.com.au
J.E.YOUNG UIC No. 674 563 705

Owner:
S O'MARA & A SHEPHERD

REV: Amendment	Date
3 of 5	REV: 0



GROUND FLOOR PLAN
SCALE 1:100

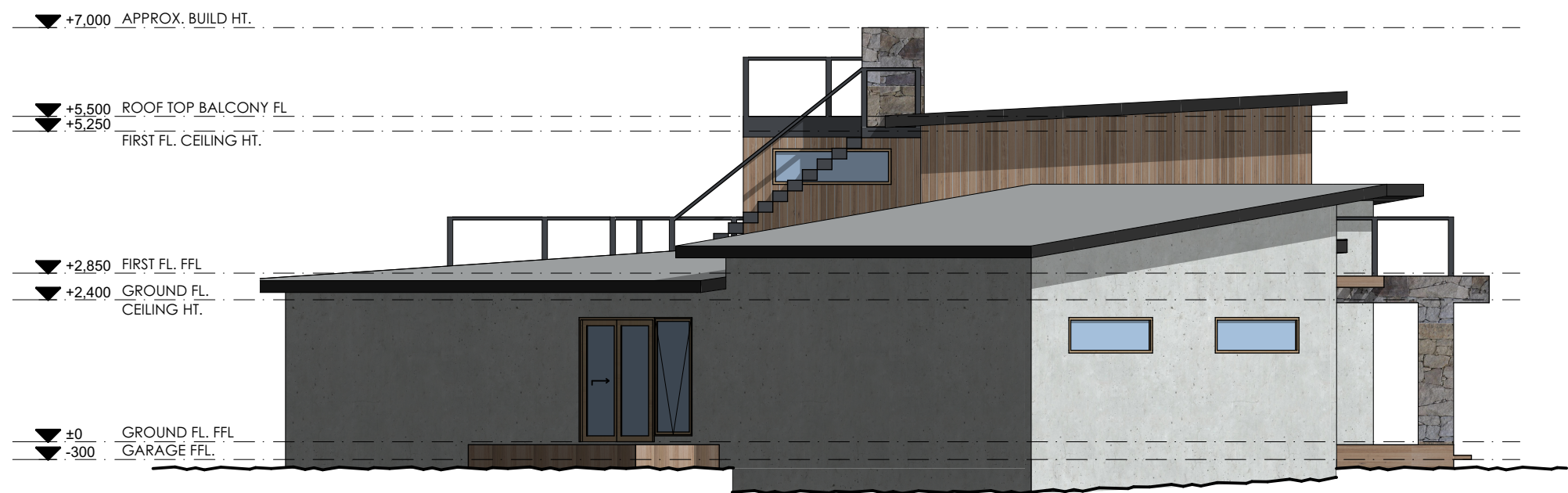


FIRST FLOOR PLAN
SCALE 1:100

NEW DWELLING AND OUTBUILDINGS

1335 GREENS BEACH ROAD, KELSO TAS 7270

PROJECT NUMBER: 25068		SCALE: IF IN DOUBT ASK SCALE @ A1	PRINT DATE: 17/11/2025	REV: Amendment A03	Date 4 of 5
---------------------------------	--	---	----------------------------------	------------------------------	-----------------------



ELEVATION NOTES

WALL CLADDING SYSTEMS MUST BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURES DETAILS, INSTRUCTIONS & SPECIFICATIONS.

INSTALL THE WALL CLADDING SYSTEM COMPLETE WITH JOINTS, TRIMS, FLASHINGS, SEALS, FIXINGS & FINISHES IN STRICT ACCORDANCE WITH MANUFACTURES DETAILS TO ENSURE A WEATHER-PROOF AND WATERTIGHT INSTALLATION.

REFER TO GLAZING CALCULATOR FOR WINDOW & GLAZING DETAILS TYP.

ELEVATION NOTES

WALL CLADDING SYSTEMS MUST BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURES DETAILS, INSTRUCTIONS & SPECIFICATIONS.

INSTALL THE WALL CLADDING SYSTEM COMPLETE WITH JOINTS, TRIMS, FLASHINGS, SEALS, FIXINGS & FINISHES IN STRICT ACCORDANCE WITH MANUFACTURES DETAILS TO ENSURE A WEATHER-PROOF AND WATERTIGHT INSTALLATION.

REFER TO GLAZING CALCULATOR FOR WINDOW & GLAZING DETAILS TYP.

NEW DWELLING AND OUTBUILDINGS 1335 GREENS BEACH ROAD, KELSO TAS 7270

NOTE: THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS THEY ARE STAMPED BY THE BUILDING SURVEYOR AND/OR PERMIT AUTHORITY.

PROJECT NUMBER:	SCALE: IF IN DOUBT ASK	PRINT DATE:
25068	SCALE @ A1	17/11/2025

REV:	Amendment	Date
A04		

DRAWING No:	ISSUE: SCHEMATIC
5 of 5	REV: 0

STRUCTURAL GENERAL NOTES

1.0 General

- 1.1 These drawings are
- a) Jointly owned by Easy Shed and Venn Engineering Pty Ltd
 - b) Provided for the sole purpose of obtaining building approval and guiding construction of a single building at the job address shown in the title block
 - c) Prohibited to be used for any other purpose without written authorisation from Easy Shed and Venn Engineering Pty Ltd.
 - d) Only valid if signed by the engineer and must not be altered in any way without signed approval from the engineer.
 - e) Produced to scale but dimensions shall not be obtained by measuring the drawings. All dimensions are in millimeters unless stated otherwise.
- 1.2 The engineer accepts no liability or responsibility for the contents of drawings that are invalid.
- 1.3 The word 'the engineer' used in these notes refers to an employee or nominated representative of Venn Engineering Pty Ltd.
- 1.4 The engineer is not the project manager or site supervisor for this project. It is the responsibility of the project manager or site supervisor in charge to ensure that the non-structural requirements of the Governing Building Code are considered and appropriately designed. This includes, but not limited to, fire & bushfire design, access requirements, future roof access requirements, lighting, glazing and electrical design, etc.

2.0 Structural Design

- 2.1 The structural framing components detailed in these drawings have been designed in accordance with the following documents for the design criteria detailed in these notes
- | | |
|-----------------------------------|--|
| Governing Building Code | 2022 National Construction Code – Building Code of Australia Volume 2 and 2022 Housing Provisions Standard |
| Loading Standards | AS/NZS 1170.0:2002(+A5)
AS/NZS 1170.1:2002(+A2)
AS/NZS 1170.2:2021 |
| Cold formed Steel member standard | AS/NZS 4600:2018 |
- 2.2 These drawings are also the limit of the Structural Design, any requirements for additional structural design of other items included in the project are specifically excluded if not shown on these drawings. This includes, but not limited to, requirements for additional loads that aren't specified including flood design loads, additional roof loads from solar panels, retaining walls required on site, driveway design etc.
- 2.3 These structural drawings and specifications represent the finished structure. The building is not considered complete until the installation of all components and details shown herein are installed according to the drawings.
- 2.4 No alterations are to be made to this structure without written approval of the engineer. This includes, but not limited to, modification to the plans and/or specifications, be the installation of additional openings, increased roof loads, skylight roof sheets or removal of cladding. If changes are made without written approval, such changes shall the legal and financial responsibility of the contractor or sub-contractors involved and it shall be their full responsibility to replace or repair the condition of the building as directed by the engineer.

3.0 Design Criteria

Building class.....	10a
Building Importance level.....	2
Wind region.....	A4
Terrain category.....	2
Topographic multiplier.....	1
Shielding multiplier.....	1
Ultimate design wind speed.....	41.0 m/s
Snow load.....	0.00 kPa
Slab imposed load.....	2.5 kPa or 9kN applied over 0.3x0.3m area (light vehicles)
Allowable bearing capacity of foundation supporting footings.....	100 kPa
Allowable bearing capacity of foundation supporting slab.....	50 kPa
Allowable skin friction of foundation.....	25 kPa
Soil Type.....	Non-aggressive (not saline or acid sulfate)

4.0 Installation Building Contractor Responsibilities

- 4.1 The contractor shall verify and confirm all site conditions and dimensions. Any discrepancies between drawings and site conditions shall be referred to the engineer for decision before proceeding with the work.
- 4.2 All workmanship and materials are to be in accordance with the Governing Building Code including all relevant Australian Standards and local statutory authorities except where varied by the contract documents.
- 4.3 The contractor shall be responsible for maintaining the structure in a stable condition and ensuring no part is overstressed under construction activities. They shall provide all temporary bracing, shoring or other means to avoid excessive stresses and to hold structural elements in place during erection. These temporary provisions shall remain in place until sufficient permanent members are erected to ensure the safety of partially erected structures. The contractor is responsible for meeting all laws regulating the erection of steel buildings including, but not limited to, Safe Work Australia guidelines.
- 4.4 The contractor shall be responsible for the location of all services in the vicinity of the works. Any services shown are provided for information only. The contractor shall confirm the location of all services prior to commencing and shall be responsible for the repair of any damage caused to services, as well as any loss incurred because of the damage to any service.

5.0 Foundation

- 5.1 The bearing capacity of the foundation supporting the footings and slab shall be confirmed before any concrete is placed.
- 5.2 No earth or debris is to fall into the footings or piers before and during placing of concrete.
- 5.3 All footings shall be located centrally under walls and columns unless noted otherwise.
- 5.4 Concrete embedment depths do not apply to locations where any uncompacted fill or disturbed ground exists or where walls of the excavation will not stand without support. Request further advice from the engineer in these circumstances.
- 5.5 Fill used for the support of a slab on ground shall be controlled fill or rolled fill as in accordance with clause 6.4.2 of AS 2870-2011.
- 5.6 Slabs less than 100sq.m in plan area are suitable for AS 2870-2011 site classes A, S & M. For larger slabs or for site classes M-D, H1, H1-D, H2, H2-D, E & E-D, the slab may experience cracking more than is considered normally acceptable. The cracking is considered of aesthetic concern only and should not effect the structural performance of the slab or shed. If this is not desired, contact the engineer for further advice.

6.0 Concrete

- 6.1 Concrete placement and workmanship shall be in accordance with AS 3600-2018 & AS 2870-2011.
- 6.2 Concrete shall be
- a) N25 with slump of 100 mm in accordance with AS 1379-2007, with 20 mm maximum nominal aggregate size and no admixtures.
 - b) consolidated by mechanical vibration.
 - c) Cured for a minimum of 7 days using continuous ponding with potable water.
- 6.3 No holes, chases or embedment of pipes other than those shown on the drawings shall be made in concrete members without prior approval of the engineer.

7.0 Reinforcement

- 7.1 Reinforcement shall comply with AS/NZ 4671-2019.
- 7.2 Reinforcement is represented diagrammatically and not necessarily shown in true projection.
- 7.3 Welding of reinforcement shall not be permitted without the approval of the engineer.
- 7.4 All reinforcement shall be securely supported in its correct position ensuring the correct cover during placing of concrete by approved bar chairs, spacers or support bars. Approved chairs include stainless steel or plastic bar chairs for bottom reinforcement and plastic tipped wire bar chairs for top reinforcement. All chairs to be spaced at maximum of 750mm centres.
- 7.5 Cover to reinforcement shall be:
- a) 50mm for surfaces of concrete in contact with the ground;
 - b) 30mm for top surfaces of slabs fully enclosed by the building without open bays or
 - c) 60mm for top surfaces of slabs more than 1 km from the coastline with open bays.
 - d) For buildings with open bays within 1km of the coast, contact the engineer for cover and concrete grade requirements.
- 7.6 Reinforcement shall be lapped 500mm for 12mmØ bars and 800mm for 16mmØ bars.
- 7.7 Mesh reinforcement shall be lapped such that the two outermost wires of one sheet overlap the two outermost wires of the other sheet by 25 mm.
- 7.8 Hooks, bends and cogs to be in accordance with AS 3600-2018 unless noted otherwise on drawings.

8.0 Anchor Bolts

- 8.1 All anchors bolts shall be installed in accordance with the manufacturer's installation instructions.
- 8.2 Drill holes using a percussion drill (coring not permitted) to the correct hole diameter and depth as specified in the drawings.
- 8.3 Thoroughly clean and blow the dust out of the holes using the cleaning accessories prescribed by the manufacturer's instructions.
- 8.4 Substitution of anchors bolts and chemical epoxy adhesive is not permitted unless written confirmation from the engineer is provided.
- 8.5 For chemical anchors, ensure load is not applied to the anchors whilst epoxy adhesive is curing.

9.0 Light Gauge Cold-formed Steel

- 9.1 All light gauge cold-formed steel shall comply with AS 1397-2021 and be the following grades
- | Thickness(mm) | Steel grade (yield stress, MPa) | Protective coating (g/m2) |
|---------------------|---------------------------------|---------------------------|
| BMT ≤ 1.0mm | G550 | Z350 |
| 1.0mm < BMT < 1.5mm | G500 | Z350 |
| 1.5mm ≤ BMT ≤ 3.0mm | G450 | Z350 |
- 9.2 Welding of light gauge cold-formed steel shall not be permitted.
- 9.3 Column and rafter members shall not be drilled or notched without prior approval of the engineer.
- 9.4 Round holes may be drilled through any girt or purlin member within the middle third of the depth of that member and not within 600mm of member end unless noted otherwise.
- 9.5 All bolts used to connect light gauge cold-formed steel members shall be
- a) Zinc coated M12 (min.) grade 4.6 snug tightened complying to AS 1111.1-2015 & AS 1112.3-2015 unless noted otherwise.
 - b) Spaced no less than 3 bolt diameters between centres.
 - c) Located no less than 1.5 bolt diameters from bolt centre to the end or edge of any light gauge member.
- 9.6 All screws used to connect light gauge cold formed steel members (excluding sheeting) shall be
- a) 10g (min.) self-drilling screws complying with AS 3566.1-2002.
 - b) Corrosion resistance class 4 in accordance with AS 3566.2-2002 for buildings within 1 km from the coastline with open bays or class 3 otherwise.
 - c) Spaced no less than 3 bolt diameters between centres.
 - d) Located no less than 1.5 bolt diameters from bolt centre to the end or edge of any light gauge member.

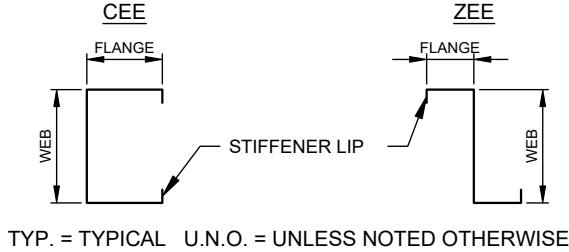
10.0 Roof & Wall Sheeting

- 10.1 Roof & wall sheeting shall comply with AS 1397-2018 and have suitable corrosion protection complying with Table 7.2.2a of the 2022 Housing Provisions Standard.
- 10.2 During construction and maintenance, no foot traffic shall occur within end spans of sheeting, foot traffic shall occur
- a) Evenly across at least two ribs for corrugated profiled sheeting or
 - b) In the pans for pan-type profiled sheeting.
- 10.3 Any roof skylights shall be approved by the engineer
- 10.4 Safety mesh shall be installed in accordance with the building code

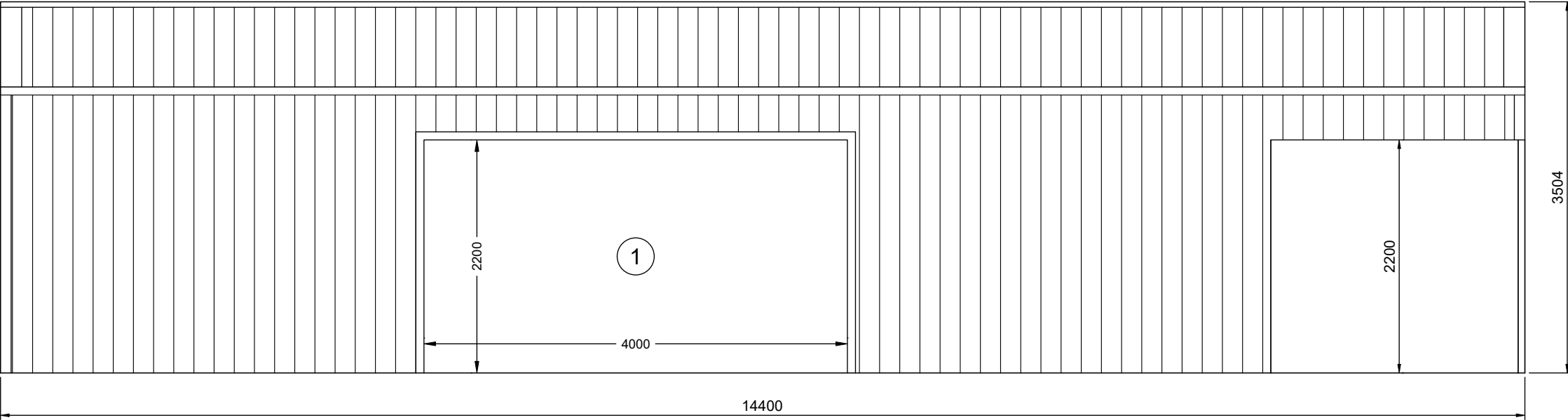
11.0 Door & Window Components

- 11.1 Wind-locked roller doors are assumed to remain in-place and resist the ultimate limit state wind loading except for in cyclonic regions
- 11.2 Non-wind-locked roller doors are assumed to have failed at the ultimate limit state wind loading
- 11.3 Personal access doors shall be rated for the wind loading parameters stated in the design criteria (see section 3.0)
- 11.4 All windows shall be in accordance with AS 1288-2021 & AS 2047-2014(+A2) as appropriate for the wind loading parameters stated in the design criteria (see section 3.0)

COMPONENT DIAGRAM



REV	DATE	DESCRIPTION	COLD FORMED BUILDINGS ANOTHER COLD FORMED BUILDING DESIGNED BY ACT BUILDING SYSTEMS		VENN ENGINEERING PO Box 3084 THIRROUL NSW 2515 sheds@venn.engineering ABN 39 626 802 257 Signed Grant J Wood MIEAust CPEng NER RPEQ Registered EA Chartered Professional Engineer (No. 2383009) Registered Professional Engineer QLD (No. 14384) Registered Civil Engineer Building Practitioner VIC (No. PE0002499) Registered Certifying Engineer (structural) NT (No. 306371ES) Building Services Provider (Engineer Civil) TAS (No. 690939425)		Customer Name: Shane OMara Site Address: 1335 Greens Beach Road Kelso, TAS, 7270	DATE 06-03-2025 JOB NO. EALB99697097 SHEET 1 of 13
A	06-03-2025	-						

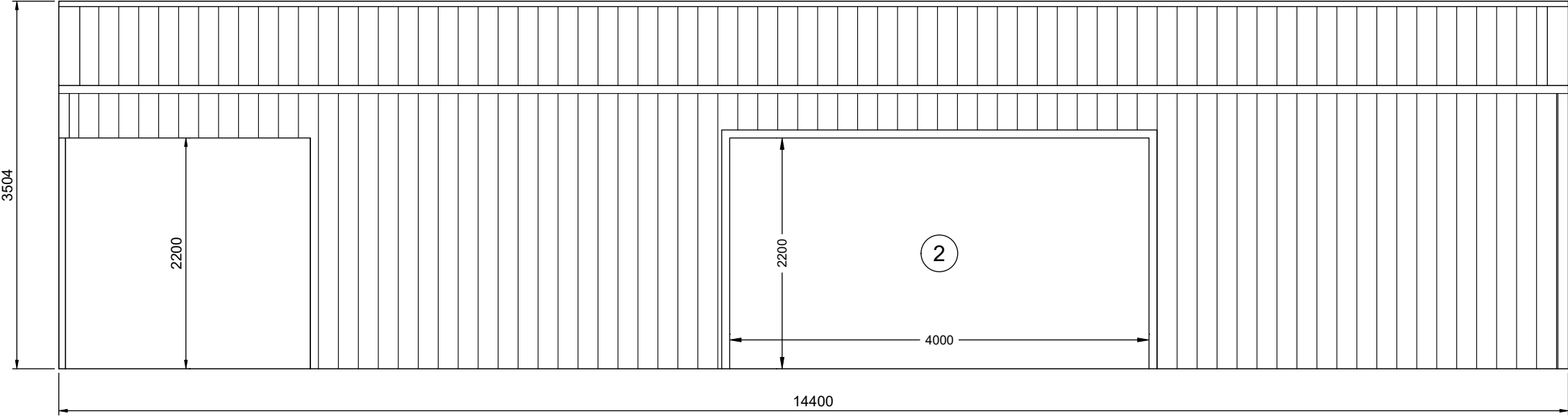


2

2

SIDEWALL B BUILDING ELEVATION

SCALE: 1:50

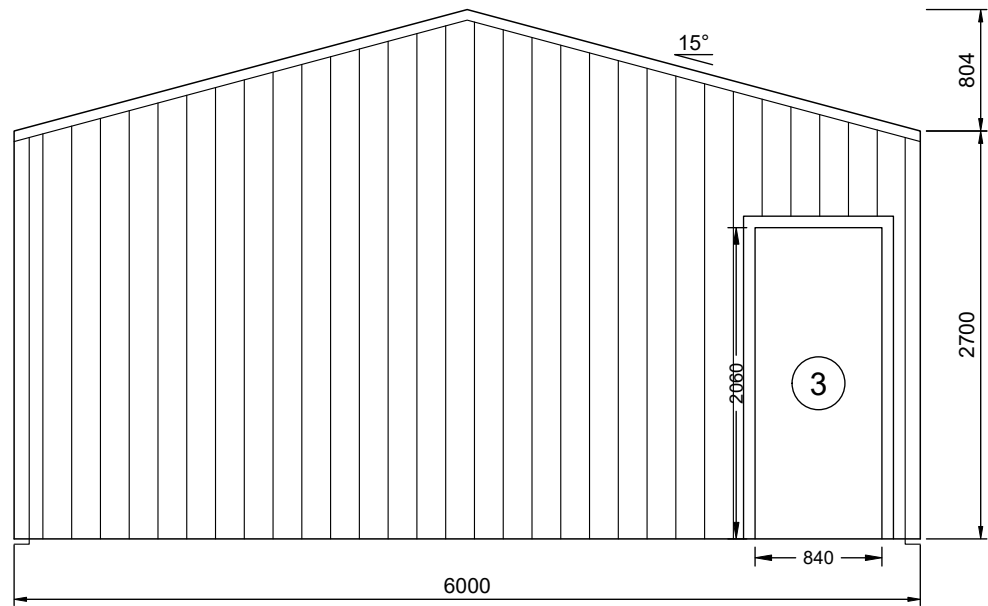


1

2

SIDEWALL A BUILDING ELEVATION

SCALE: 1:50



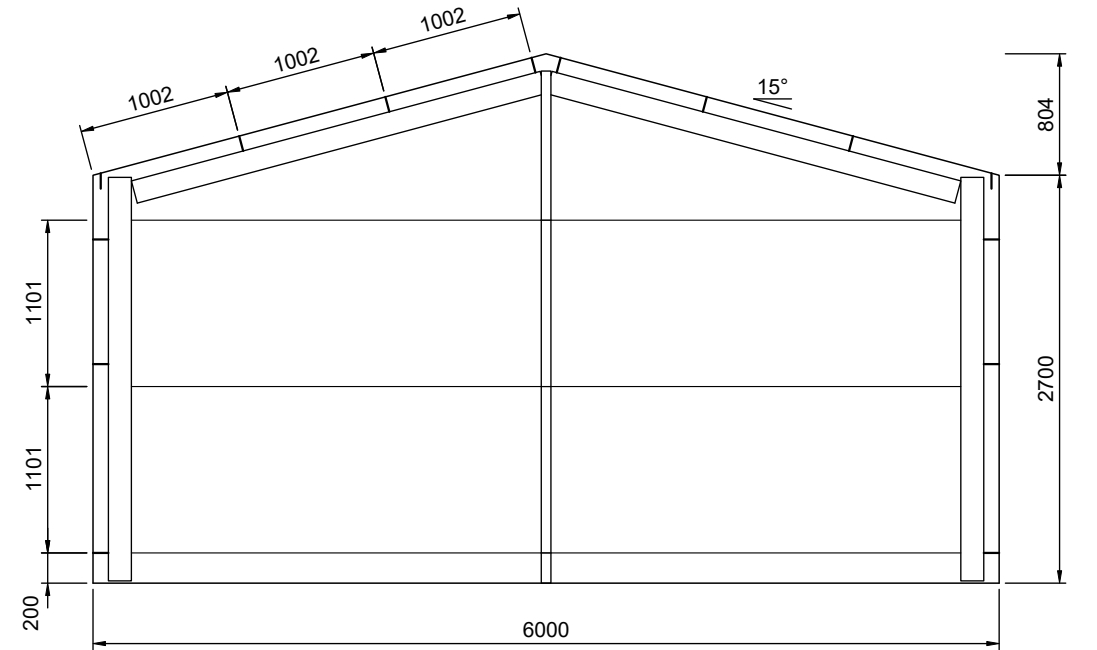
2

3

REAR BUILDING ELEVATION

SCALE: 1:50

FRAME #5



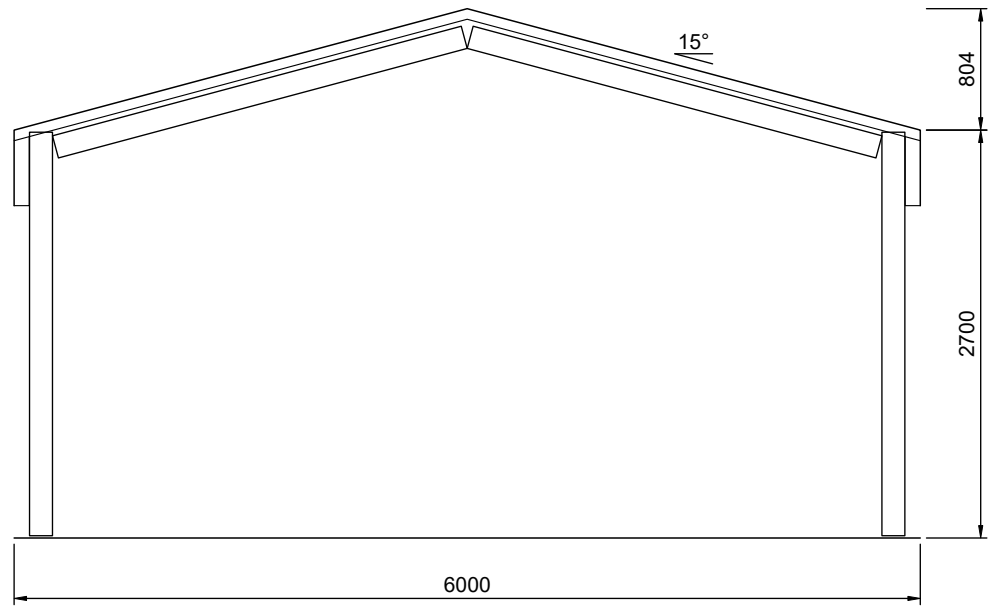
4

3

FRONT FRAMING ELEVATION

SCALE: 1:50

FRAME # 2



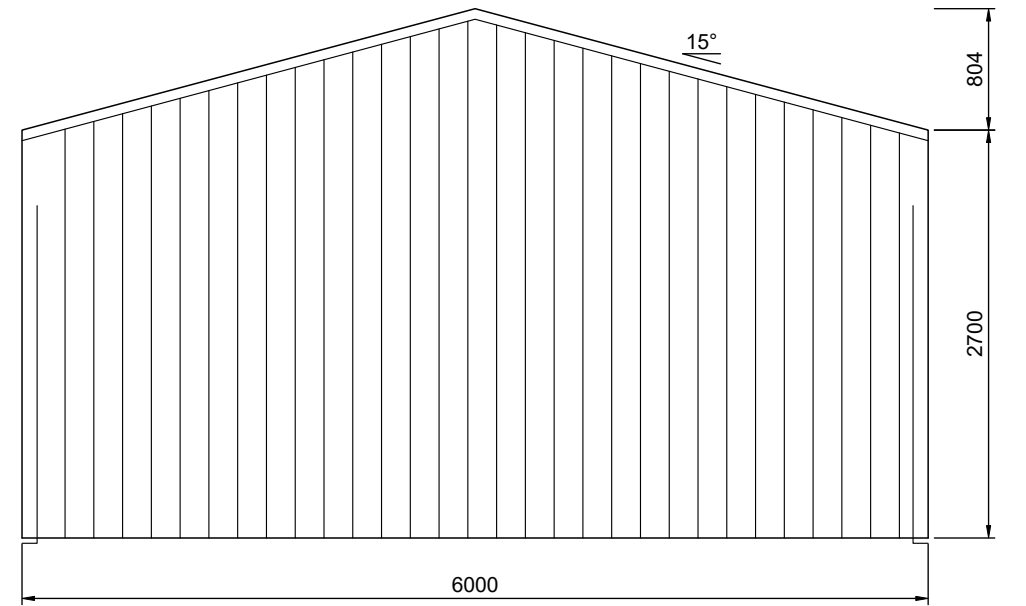
3

3

FRONT GARAPORT ELEVATION

SCALE: 1:50

FRAME #1



1

3

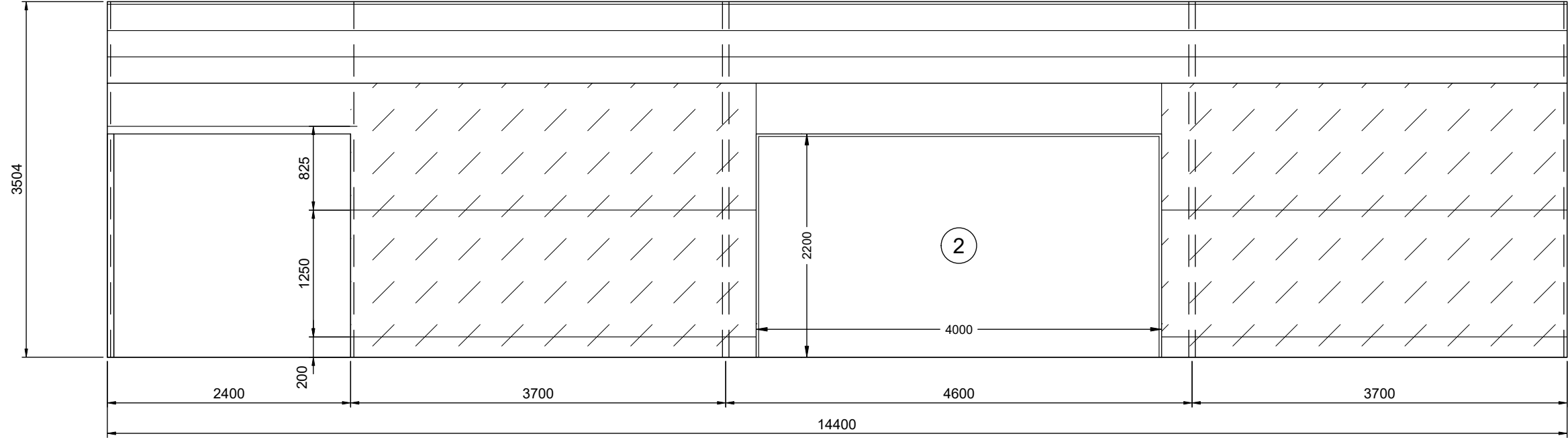
FRONT BUILDING ELEVATION

SCALE: 1:50

FRAME #2

DIAPHRAGM SCHEDULE
SHEETING IN DIAPHRAGM SECTIONS (SHOWN
AS HATCHED AREA ON ELEVATIONS) NOT TO
BE CUT UNDER ANY CIRCUMSTANCES

WALL	DISTANCE FROM WALL EDGE
Sidewall 'A'	2400-6400 10400-14400



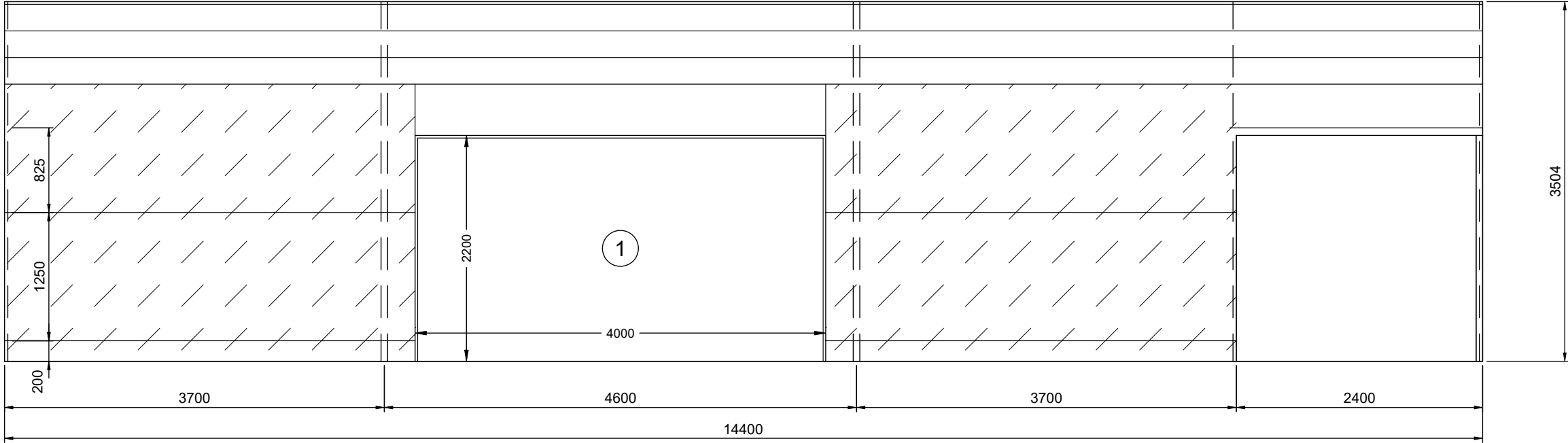
1
4

SIDEWALL A FRAMING ELEVATION

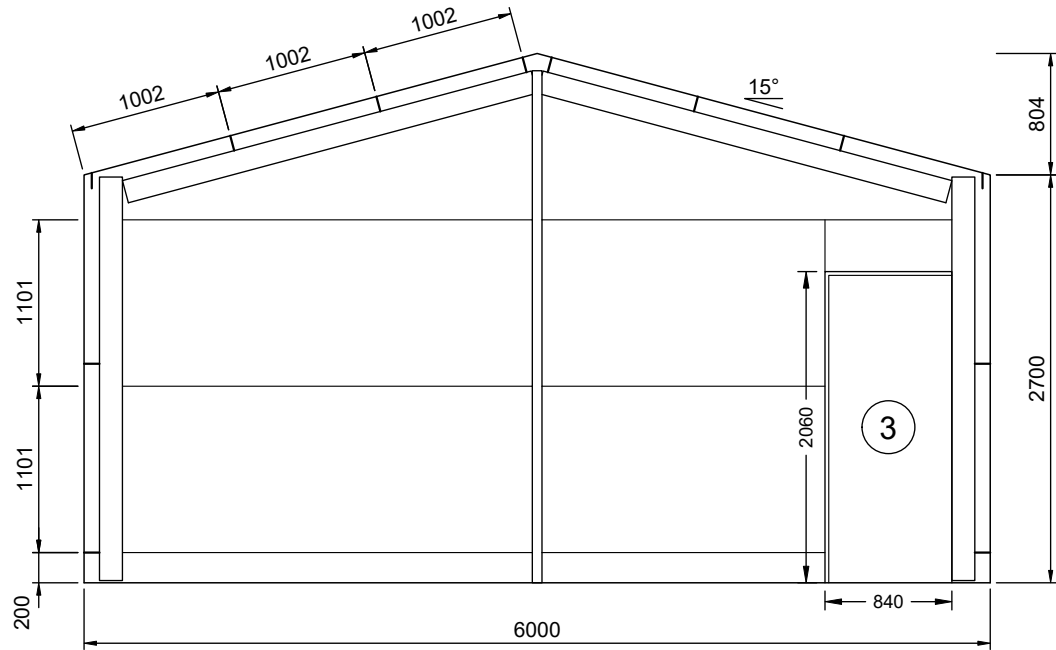
SCALE: 1:50

DIAPHRAGM SCHEDULE
SHEETING IN DIAPHRAGM SECTIONS (SHOWN
AS HATCHED AREA ON ELEVATIONS) NOT TO
BE CUT UNDER ANY CIRCUMSTANCES

WALL	DISTANCE FROM WALL EDGE
Sidewall 'B'	2400-6400 10400-14400



1 SIDEWALL B FRAMING ELEVATION
5 SCALE: 1:50



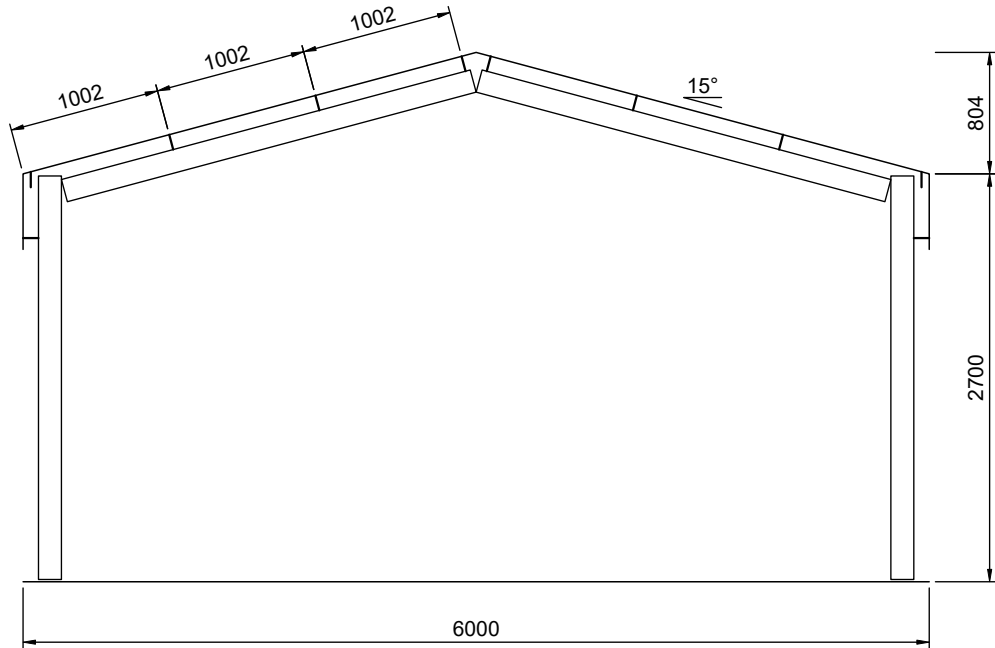
1

6

REAR FRAMING ELEVATION

SCALE: 1:50

FRAME #5



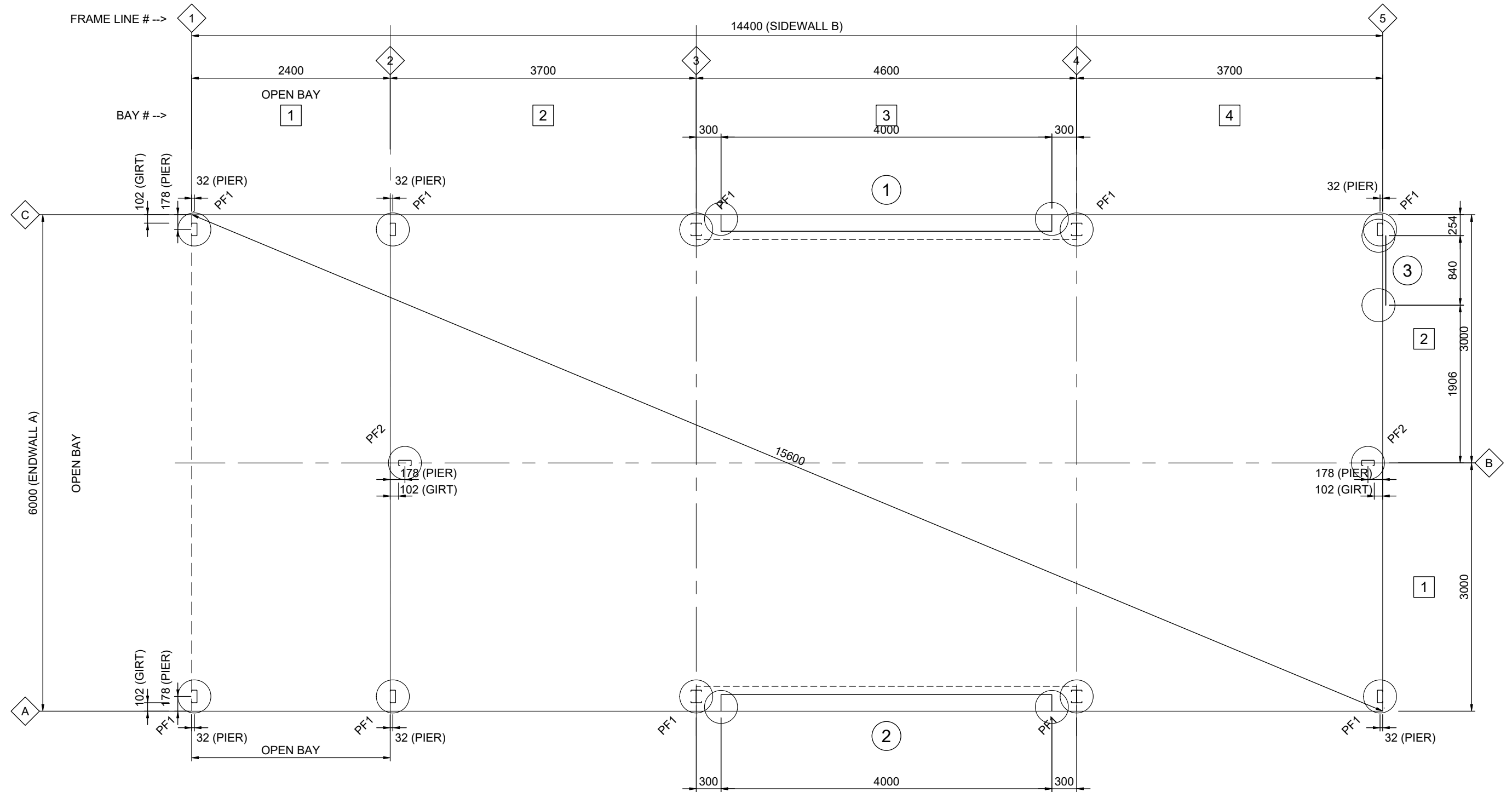
2

6

FRONT GARAPORT FRAMING ELEVATION

SCALE: 1:50

FRAME #1



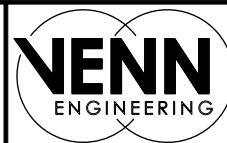
1
7

FOOTING/SLAB FLOOR PLAN

SCALE: 1:50

PF1 - 400Ø REINFORCED CONCRETE PIERS TO DETAIL
PF2 - 400Ø REINFORCED CONCRETE PIERS TO DETAIL

REV	DATE	DESCRIPTION
A	06-03-2025	-



PO Box 3084
THIRROUL NSW 2515
sheds@venn.engineering
ABN 39 626 802 257

Signed

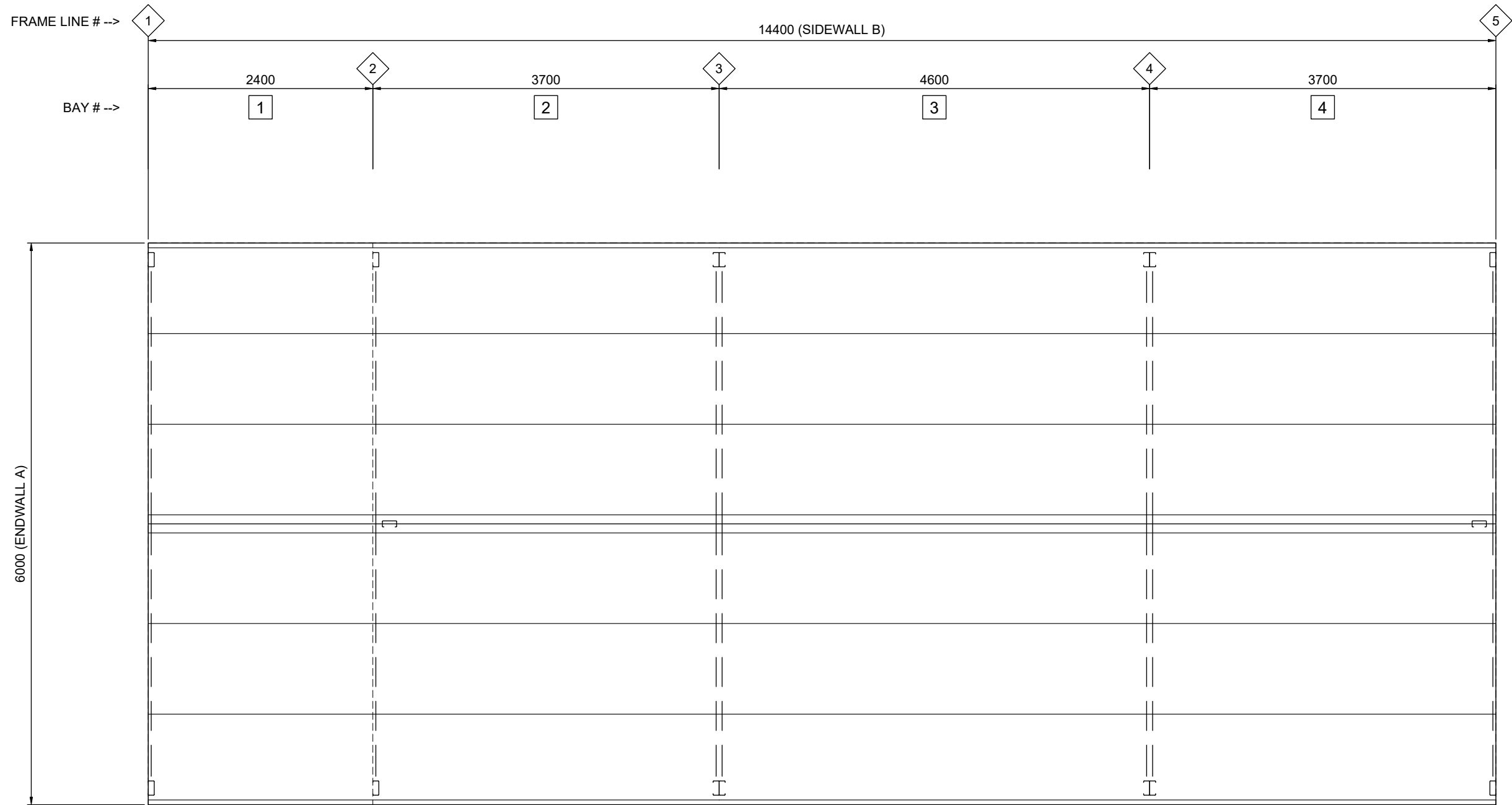
Grant J Wood

Date 06-03-2025

Grant J Wood MIEAust CPEng NER RPEQ
Registered EA Chartered Professional Engineer (No. 2383009)
Registered Professional Engineer QLD (No. 14384)
Registered Civil Engineer Building Practitioner VIC (No. PE0002499)
Registered Certifying Engineer (structural) NT (No. 306371ES)
Building Services Provider (Engineer Civil) TAS (No. 69030425)

Customer Name: Shane OMara
Site Address: 1335 Greens Beach Road
Kelso,
TAS, 7270

DATE 06-03-2025
JOB NO. EALB99697097
SHEET 7 of 13



1
8

ROOF FRAMING PLAN

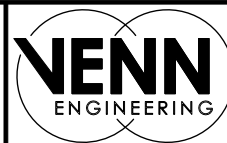
SCALE: 1:50

ROOF SHEETING IS USED AS DIAPHRAGM TO BRACE THE
BUILDING AND IS NOT TO BE CUT UNDER ANY CIRCUMSTANCES

REV	DATE	DESCRIPTION
A	06-03-2025	-



ANOTHER
COLD FORMED BUILDING
DESIGNED BY
ACT BUILDING SYSTEMS



PO Box 3084
THIRROUL NSW 2515
sheds@venn.engineering
ABN 39 626 802 257

Signed

Date 06-03-2025

Grant J Wood MIEAust CPEng NER RPEQ
Registered EA Chartered Professional Engineer (No. 2383009)
Registered Professional Engineer QLD (No. 14384)
Registered Civil Engineer Building Practitioner VIC (No. PE0002499)
Registered Certifying Engineer (structural) NT (No. 306371ES)
Building Services Provider (Engineer Civil) TAS (No. 69030425)

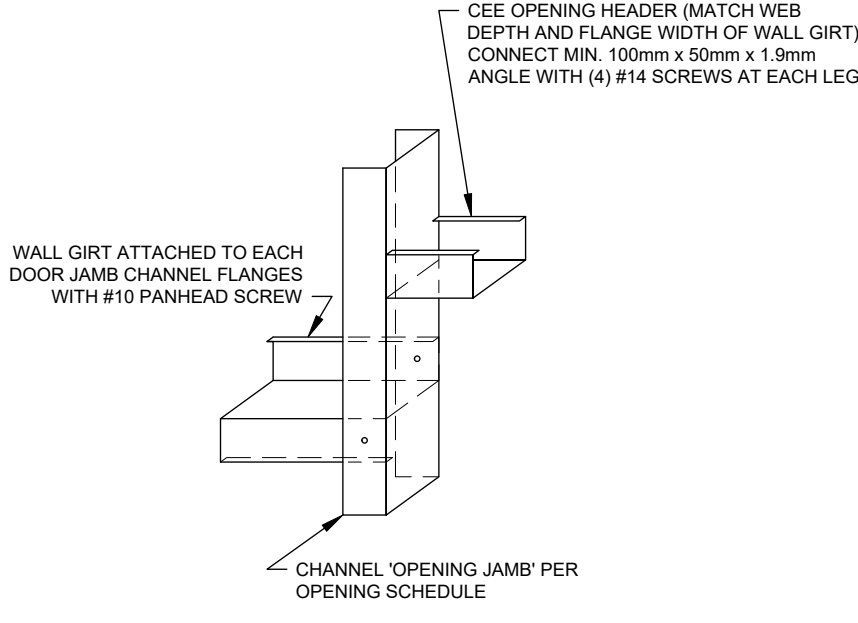
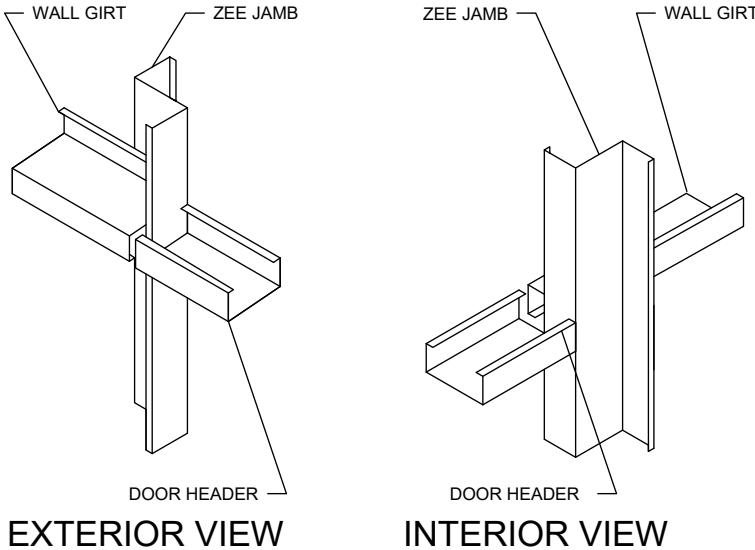
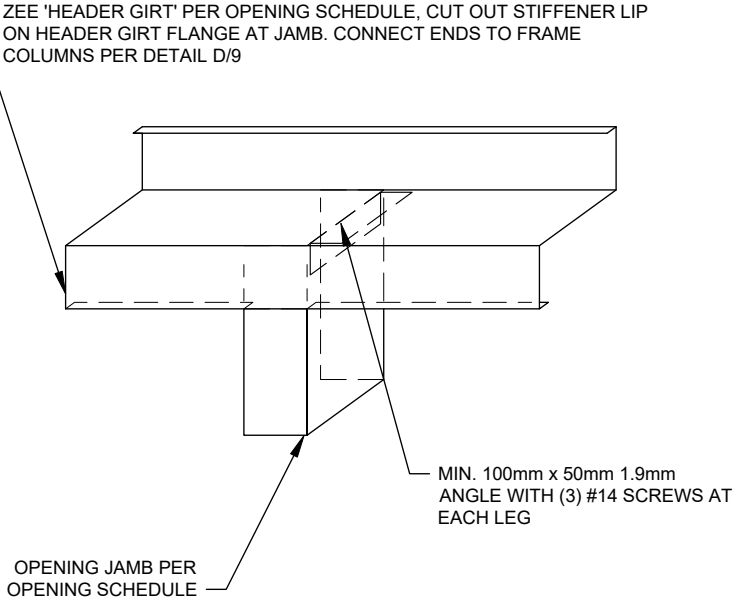
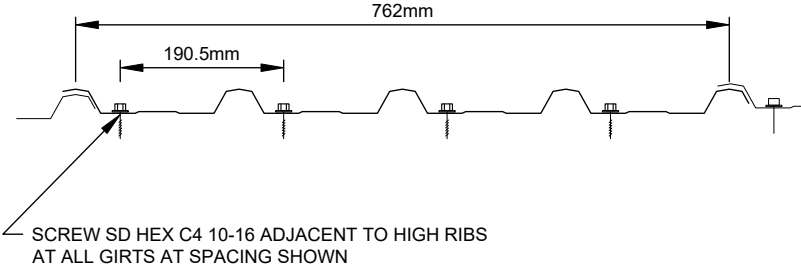
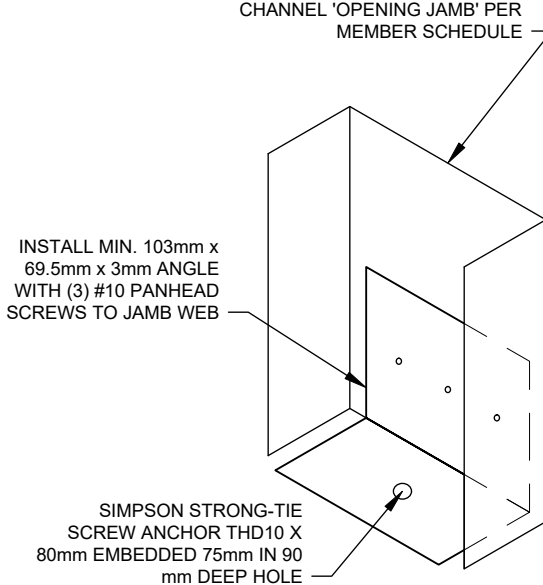
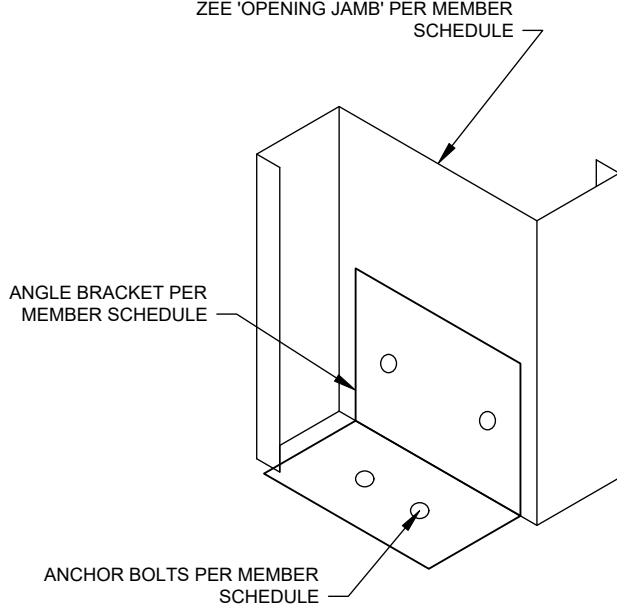
Customer Name: Shane OMara
Site Address: 1335 Greens Beach Road
Kelso,
TAS, 7270

DATE 06-03-2025
JOB NO. EALB99697097
SHEET 8 of 13

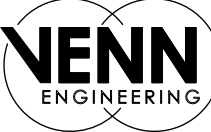
				NOTE: ONLY STRUCTURAL INFORMATION IS INCLUDED IN THIS DETAIL. CONSULT PANEL MANUFACTURER FOR ADD'T'L WEATHERTIGHTNESS RECOMMENDATIONS. Stramit Monoclad 0.42	
G1	ENDWALL MULLION BASE DETAIL	G2	ENDWALL MULLION BASE DETAIL 2	H	ROOF SHEETING
F2	CORNER COLUMN BASE DETAIL 2	F3	FRAME COLUMN BASE DETAIL	F4	FRAME COLUMN BASE DETAIL 2

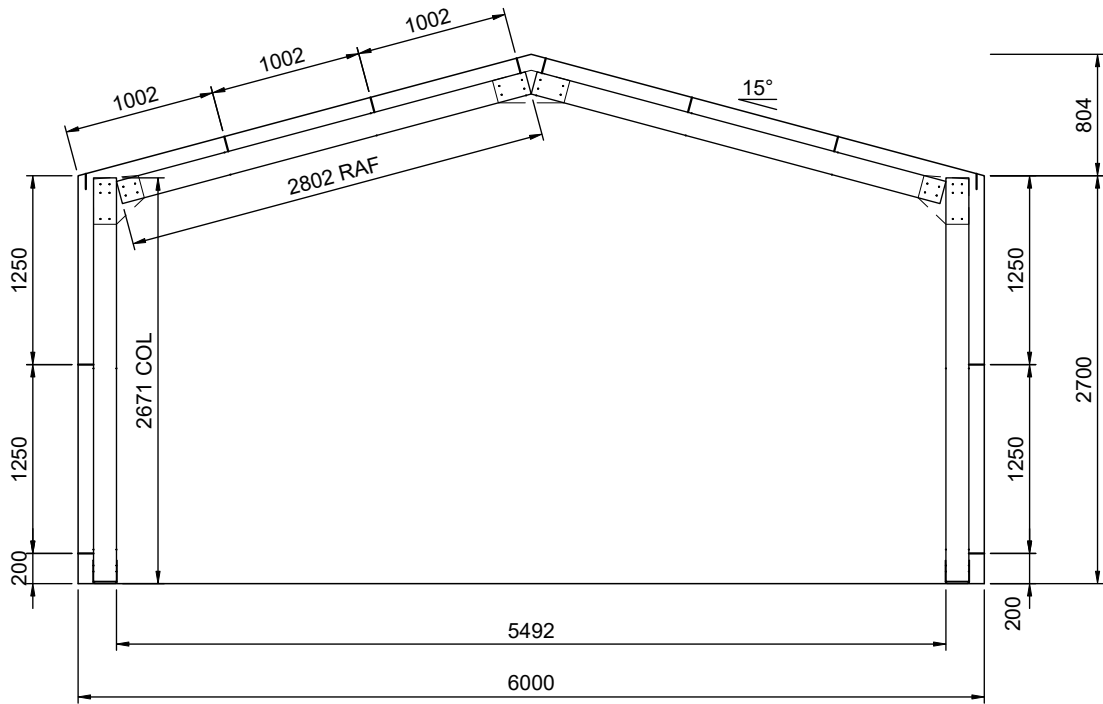
DETAIL DIMENSIONS ARE SHOWN IN MM UNLESS SPECIFIED OTHERWISE

REV	DATE	DESCRIPTION	 ANOTHER COLD FORMED BUILDING DESIGNED BY ACT BUILDING SYSTEMS	 PO Box 3084 THIRROUL NSW 2515 sheds@venn.engineering ABN 39 626 802 257	Signed Date 06-03-2025 Grant J Wood MIEAust CPEng NER RPEQ Registered EA Chartered Professional Engineer (No. 2383009) Registered Professional Engineer QLD (No. 14384) Registered Civil Engineer Building Practitioner VIC (No. PE0002499) Registered Certifying Engineer (structural) NT (No. 306371ES) Building Services Provider (Engineer Civil) TAS (No. 69030425)	Customer Name: Shane OMara Site Address: 1335 Greens Beach Road Kelso, TAS, 7270	DATE 06-03-2025 JOB NO. EALB99697097 SHEET 10 of 13

								
K1	OPENING CHANNEL JAMB GIRT CONNECTION		K2	OPENING ZEE JAMB GIRT CONNECTION		L1	CHANNEL JAMB TO HEADER GIRT CONNECTION	
NOTE: ONLY STRUCTURAL INFORMATION IS INCLUDED IN THIS DETAIL. CONSULT PANEL MANUFACTURER FOR ADDTL WEATHERTIGHTNESS RECOMMENDATIONS.  Stramit Monoclad 0.42								
I	WALL SHEETING		J1	PA DOOR JAMB BASE CONNECTION		J2	ROLLER DOOR JAMB BASE CONNECTION	

DETAIL DIMENSIONS ARE SHOWN IN MM UNLESS SPECIFIED OTHERWISE

REV	DATE	DESCRIPTION	  ANOTHER COLD FORMED BUILDING DESIGNED BY ACT BUILDING SYSTEMS	 PO Box 3084 THIRROUL NSW 2515 sheds@venn.engineering ABN 39 626 802 257	Signed  Date 06-03-2025 Grant J Wood MIEAust CPEng NER RPEQ Registered EA Chartered Professional Engineer (No. 2383009) Registered Professional Engineer QLD (No. 14384) Registered Civil Engineer Building Practitioner VIC (No. PE0002499) Registered Certifying Engineer (structural) NT (No. 306371ES) Building Services Provider (Engineer Civil) TAS (No. 69030425)	Customer Name: Shane OMara Site Address: 1335 Greens Beach Road Kelso, TAS, 7270	DATE 06-03-2025 JOB NO. EALB99697097 SHEET 11 of 13
A	06-03-2025	-					



1

13

INTERNAL FRAMING ELEVATION

SCALE: 1:50

FRAMES 3, 4

MEMBER SCHEDULE			
COMPONENT			TYPE
CLEAR SPAN PORTAL (FRAMES 3, 4)	MEMBER	RAFTER	Double C15015
		COLUMN	Double C15015
		APEX BRACE	-
		KNEE BRACE	-
	BASE CONNECTION	BRACKET TYPE	Base cleat bolt down bracket BC.150
ENDWALL OR PARTITION PORTAL (FRAMES 2, 5)	MEMBER	RAFTER	Single C15015
		COLUMN	Single C15015
		APEX BRACE	-
		KNEE BRACE	-
	BASE CONNECTION	BRACKET TYPE	Base cleat bolt down bracket BC.150
ENDWALL A PORTAL (FRAME 1)	MEMBER	RAFTER	Single C15015
		COLUMN	Single C15015
		APEX BRACE	-
		KNEE BRACE	-
	BASE CONNECTION	BRACKET TYPE	Base cleat bolt down bracket BC.150
ENDWALL OR PARTITION MULLION	MEMBER	RAFTER	Single C15015
		COLUMN	Single C15015
		APEX BRACE	-
		KNEE BRACE	-
	BASE CONNECTION	BRACKET TYPE	Base cleat bolt down bracket BC.150
ROOF PURLINS	MEMBER	RAFTER	Single C15015
		COLUMN	Single C15015
		APEX BRACE	-
		KNEE BRACE	-
	BASE CONNECTION	BRACKET TYPE	Base cleat bolt down bracket BC.150
EAVE PURLIN	MEMBER	RAFTER	Single C15015
		COLUMN	Single C15015
		APEX BRACE	-
		KNEE BRACE	-
	BASE CONNECTION	BRACKET TYPE	Base cleat bolt down bracket BC.150
SIDEWALL GIRTS	MEMBER	RAFTER	Single C15015
		COLUMN	Single C15015
		APEX BRACE	-
		KNEE BRACE	-
	BASE CONNECTION	BRACKET TYPE	Base cleat bolt down bracket BC.150
ENDWALL GIRTS	MEMBER	RAFTER	Single C15015
		COLUMN	Single C15015
		APEX BRACE	-
		KNEE BRACE	-
	BASE CONNECTION	BRACKET TYPE	Base cleat bolt down bracket BC.150
OPENINGS (1-2)	MEMBER	RAFTER	Single C15015
		COLUMN	Single C15015
		APEX BRACE	-
		KNEE BRACE	-
	BASE CONNECTION	BRACKET TYPE	Base cleat bolt down bracket BC.150
OPENING (3)	MEMBER	RAFTER	Single C15015
		COLUMN	Single C15015
		APEX BRACE	-
		KNEE BRACE	-
	BASE CONNECTION	BRACKET TYPE	Base cleat bolt down bracket BC.150

Generic Temporary Bracing Information

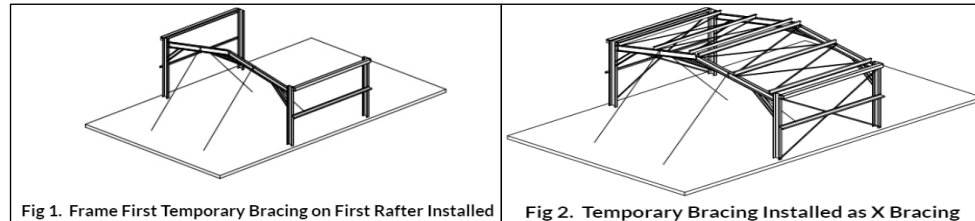
The installation of temporary bracing is critical to avoid building collapse or damaging structural movement during construction. This collapse can occur with no notice and as such the installation of appropriate temporary bracing is critical to avoid damage, injury, and possible death. Determination, procurement, and correct installation of temporary bracing is the responsibility of the builder / primary contractor / installer.

Bracing Materials

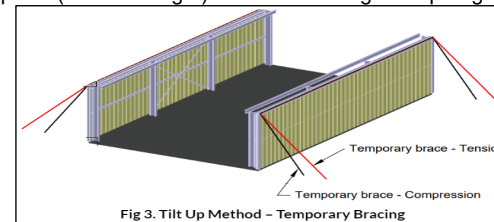
The constructor / installer is to supply suitably sized materials for temporary bracing. These materials are generally capable of tension, but in some circumstances will need to be capable of tension and compression. Load rated ratchet strapping of an appropriate size can be used to temporarily 'x-brace' bays in both directions, until the final bracing systems are fully installed. This is especially critical for buildings where X Bracing is not required in the final structure due to the use of moment frames or diaphragm bracing.

Temporary Bracing Location

The location of Temporary bracing will depend on the installation method used. Installation should be completed in accordance with the Construction Package, Engineering Plans, and Instruction Manuals. If the Frame First Method (most common) is used, then the use of tension only bracing and creating temporarily braced bays as per Fig 1 and Fig 2. can be used. As a basic guide, a minimum of every 4th bay should have temporary bracing installed as per Fig 2.



If the Tilt Up Method is used (where walls are constructed on the ground And then tilted into place), then the tops of columns are braced with a tension and compression brace in the same direction Fig 3. Then rafters and purlins can be installed with temporary bracing holding rafters in place (similar to Fig 1) until final bracing of diaphragm sheeting is installed.



Typically, braces should be positioned diagonally across the structure from the top to the bottom, intersecting near the midpoint to provide stability, optimally at a 45-degree angle but no less than a 20-degree angle. The connection strength of temporary bracing is a critical consideration and these connections must be capable of resisting the potentially substantial temporary bracing loads – whether this connection point be to the building, the foundations or to the ground. Dependent upon building size this may include heavy angles and post installed concrete anchors. The temporary bracing methods used must be capable of fully stabilising the structure during the construction process.

Additional Temporary Bracing

The temporary bracing described is a minimum requirement for a standard-sized building in average conditions. Additional consideration should be given to larger building spans and/or challenging site conditions. There may also be an increased risk in relation to partially completed buildings and exposed sites. It is recommended that extra temporary bracing is utilized if moderate wind speeds are expected on site. Additional support elements, such as steel cables may need to be introduced that can be attached to the building's framework and anchored to the ground or other stable structures to provide extra stability. The frame should remain rigid throughout and such responsibility lies with the constructor. Buildings should not be left in a partially completed state longer than necessary.

Bracing Removal

The temporary bracing should not be removed until all purlins, girts and permanent cross bracing, diaphragm bracing or moment frames where used are installed. The temporary bracing is to remain in place where possible, until the roof and wall cladding is fully installed. If you need any further information regarding the installation of temporary bracing or are at all unsure of the necessary requirements for this specific building, there are guides available through various industry bodies:

<https://www.safeworkaustralia.gov.au/> 'Construction work – steel erection. Information sheet', 2016.

<https://www.steel.org.au/> 'Structural steelwork fabrication and erection code of practice', 2014.

<https://www.standards.org.au/> AS/NZS 5131:2016 'Structural steelwork – Fabrication and erection.

Support is also available at support@actbuildingsystems.com.

THE ABOVE INFORMATION REGARDING TEMPORARY BRACING DOES NOT FORM PART OF THE ENGINEERING CERTIFICATION FOR THIS DESIGN AND IS PROVIDED AS A GUIDE TO AID INSTALLATION ONLY.

STRUCTURAL GENERAL NOTES

1.0 General

- 1.1 These drawings are
 - a) Jointly owned by Easy Shed and Venn Engineering Pty Ltd
 - b) Provided for the sole purpose of obtaining building approval and guiding construction of a single building at the job address shown in the title block
 - c) Prohibited to be used for any other purpose without written authorisation from Easy Shed and Venn Engineering Pty Ltd.
 - d) Only valid if signed by the engineer and must not be altered in any way without signed approval from the engineer.
 - e) Produced to scale but dimensions shall not be obtained by measuring the drawings. All dimensions are in millimeters unless stated otherwise.
- 1.2 The engineer accepts no liability or responsibility for the contents of drawings that are invalid.
- 1.3 The word 'the engineer' used in these notes refers to an employee or nominated representative of Venn Engineering Pty Ltd.
- 1.4 The engineer is not the project manager or site supervisor for this project. It is the responsibility of the project manager or site supervisor in charge to ensure that the non-structural requirements of the Governing Building Code are considered and appropriately designed. This includes, but not limited to, fire & bushfire design, access requirements, future roof access requirements, lighting, glazing and electrical design, etc.

2.0 Structural Design

- 2.1 The structural framing components detailed in these drawings have been designed in accordance with the following documents for the design criteria detailed in these notes
- | | |
|-----------------------------------|--|
| Governing Building Code | 2022 National Construction Code – Building Code of Australia Volume 2 and 2022 Housing Provisions Standard |
| Loading Standards | AS/NZS 1170.0:2002(+A5)
AS/NZS 1170.1:2002(+A2)
AS/NZS 1170.2:2021 |
| Cold formed Steel member standard | AS/NZS 4600:2018 |
- 2.2 These drawings are also the limit of the Structural Design, any requirements for additional structural design of other items included in the project are specifically excluded if not shown on these drawings. This includes, but not limited to, requirements for additional loads that aren't specified including flood design loads, additional roof loads from solar panels, retaining walls required on site, driveway design etc.
- 2.3 These structural drawings and specifications represent the finished structure. The building is not considered complete until the installation of all components and details shown herein are installed according to the drawings.
- 2.4 No alterations are to be made to this structure without written approval of the engineer. This includes, but not limited to, modification to the plans and/or specifications, be the installation of additional openings, increased roof loads, skylight roof sheets or removal of cladding. If changes are made without written approval, such changes shall be the legal and financial responsibility of the contractor or sub-contractors involved and it shall be their full responsibility to replace or repair the condition of the building as directed by the engineer.

3.0 Design Criteria

Building class.....	10a
Building Importance level.....	2
Wind region.....	A4
Terrain category.....	2
Topographic multiplier.....	1
Shielding multiplier.....	1
Ultimate design wind speed.....	41.0 m/s
Snow load.....	0.00 kPa
Slab imposed load.....	2.5 kPa or 9kN applied over 0.3x0.3m area (light vehicles)
Allowable bearing capacity of foundation supporting footings.....	100 kPa
Allowable bearing capacity of foundation supporting slab.....	50 kPa
Allowable skin friction of foundation.....	25 kPa
Soil Type.....	Non-aggressive (not saline or acid sulfate)

4.0 Installation Building Contractor Responsibilities

- 4.1 The contractor shall verify and confirm all site conditions and dimensions. Any discrepancies between drawings and site conditions shall be referred to the engineer for decision before proceeding with the work.
- 4.2 All workmanship and materials are to be in accordance with the Governing Building Code including all relevant Australian Standards and local statutory authorities except where varied by the contract documents.
- 4.3 The contractor shall be responsible for maintaining the structure in a stable condition and ensuring no part is overstressed under construction activities. They shall provide all temporary bracing, shoring or other means to avoid excessive stresses and to hold structural elements in place during erection. These temporary provisions shall remain in place until sufficient permanent members are erected to ensure the safety of partially erected structures. The contractor is responsible for meeting all laws regulating the erection of steel buildings including, but not limited to, Safe Work Australia guidelines.
- 4.4 The contractor shall be responsible for the location of all services in the vicinity of the works. Any services shown are provided for information only. The contractor shall confirm the location of all services prior to commencing and shall be responsible for the repair of any damage caused to services, as well as any loss incurred because of the damage to any service.

5.0 Foundation

- 5.1 The bearing capacity of the foundation supporting the footings and slab shall be confirmed before any concrete is placed.
- 5.2 No earth or debris is to fall into the footings or piers before and during placing of concrete.
- 5.3 All footings shall be located centrally under walls and columns unless noted otherwise.
- 5.4 Concrete embedment depths do not apply to locations where any uncompacted fill or disturbed ground exists or where walls of the excavation will not stand without support. Request further advice from the engineer in these circumstances.
- 5.5 Fill used for the support of a slab on ground shall be controlled fill or rolled fill as in accordance with clause 6.4.2 of AS 2870-2011.
- 5.6 Slabs less than 100sq.m in plan area are suitable for AS 2870-2011 site classes A, S & M. For larger slabs or for site classes M-D, H1, H1-D, H2, H2-D, E & E-D the slab may experience cracking more than is considered normally acceptable. The cracking is considered of aesthetic concern only and should not effect the structural performance of the slab or shed. If this is not desired, contact the engineer for further advice.

6.0 Concrete

- 6.1 Concrete placement and workmanship shall be in accordance with AS 3600-2018 & AS 2870-2011.
- 6.2 Concrete shall be
 - a) N25 with slump of 100 mm in accordance with AS 1379-2007, with 20 mm maximum nominal aggregate size and no admixtures.
 - b) consolidated by mechanical vibration.
 - c) Cured for a minimum of 7 days using continuous ponding with potable water.
- 6.3 No holes, chases or embedment of pipes other than those shown on the drawings shall be made in concrete members without prior approval of the engineer.
- 7.0 Reinforcement**
 - 7.1 Reinforcement shall comply with AS/NZ 4671-2019.
 - 7.2 Reinforcement is represented diagrammatically and not necessarily shown in true projection.
 - 7.3 Welding of reinforcement shall not be permitted without the approval of the engineer.
 - 7.4 All reinforcement shall be securely supported in its correct position ensuring the correct cover during placing of concrete by approved bar chairs, spacers or support bars.
Approved chairs include stainless steel or plastic bar chairs for bottom reinforcement and plastic tipped wire bar chairs for top reinforcement.
All chairs to be spaced at maximum of 750mm centres.
 - 7.5 Cover to reinforcement shall be:
 - a) 50mm for surfaces of concrete in contact with the ground;
 - b) 30mm for top surfaces of slabs fully enclosed by the building without open bays or
 - c) 60mm for top surfaces of slabs more than 1 km from the coastline with open bays.
 - d) For buildings with open bays within 1km of the coast, contact the engineer for cover and concrete grade requirements.
 - 7.6 Reinforcement shall be lapped 500mm for 12mmØ bars and 800mm for 16mmØ bars.
 - 7.7 Mesh reinforcement shall be lapped such that the two outermost wires of one sheet overlap the two outermost wires of the other sheet by 25 mm.
 - 7.8 Hooks, bends and cogs to be in accordance with AS 3600-2018 unless noted otherwise on drawings.

8.0 Anchor Bolts

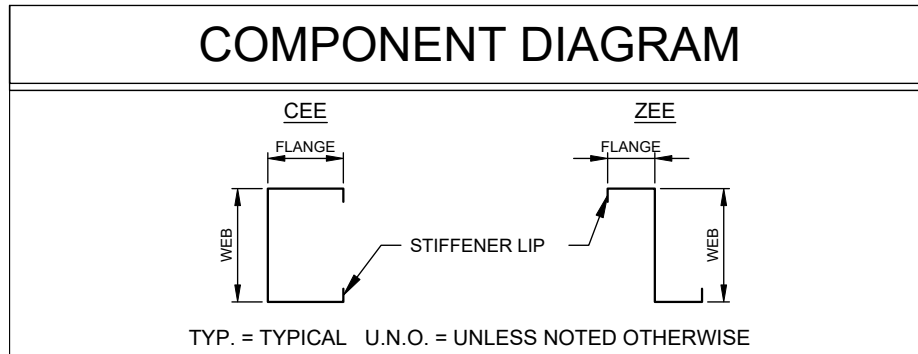
- 8.1 All anchors bolts shall be installed in accordance with the manufacturer's installation instructions.
- 8.2 Drill holes using a percussion drill (coreing not permitted) to the correct hole diameter and depth as specified in the drawings.
- 8.3 Thoroughly clean and blow the dust out of the holes using the cleaning accessories prescribed by the manufacturer's instructions.
- 8.4 Substitution of anchors bolts and chemical epoxy adhesive is not permitted unless written confirmation from the engineer is provided.
- 8.5 For chemical anchors, ensure load is not applied to the anchors whilst epoxy adhesive is curing.

9.0 Light Gauge Cold-formed Steel

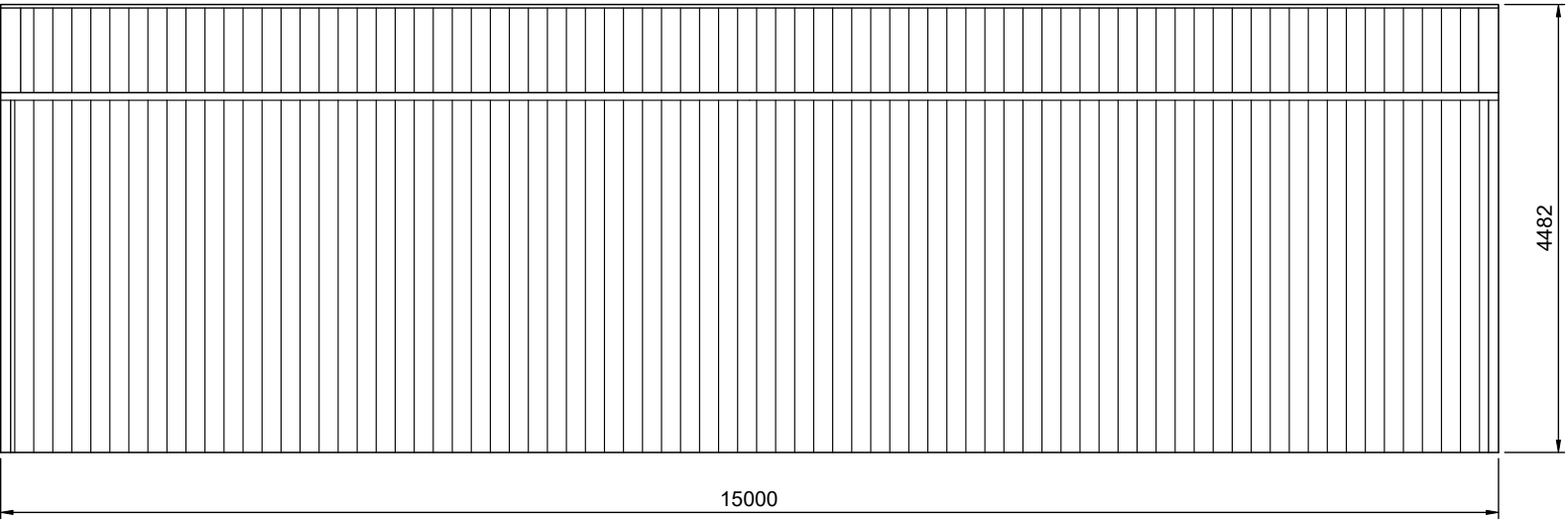
- 9.1 All light gauge cold-formed steel shall comply with AS 1397-2021 and be the following grades
- | Thickness(mm) | Steel grade (yield stress, MPa) | Protective coating (g/m ²) |
|---------------------|---------------------------------|--|
| BMT ≤ 1.0mm | G550 | Z350 |
| 1.0mm < BMT < 1.5mm | G500 | Z350 |
| 1.5mm ≤ BMT ≤ 3.0mm | G450 | Z350 |
- 9.2 Welding of light gauge cold-formed steel shall not be permitted.
- 9.3 Column and rafter members shall not be drilled or notched without prior approval of the engineer.
- 9.4 Round holes may be drilled through any girt or purlin member within the middle third of the depth of that member and not within 600mm of member end unless noted otherwise.
- 9.5 All bolts used to connect light gauge cold-formed steel members shall be
- a) Zinc coated M12 (min.) grade 4.6 snug tightened complying to AS 1111.1-2015 & AS 1112.3-2015 unless noted otherwise.
 - b) Spaced no less than 3 bolt diameters between centres.
 - c) Located no less than 1.5 bolt diameters from bolt centre to the end or edge of any light gauge member.
- 9.6 All screws used to connect light gauge cold formed steel members (excluding sheeting) shall be
- a) 10g (min.) self-drilling screws complying with AS 3566.1-2002.
 - b) Corrosion resistance class 4 in accordance with AS 3566.2-2002 for buildings within 1 km from the coastline with open bays or class 3 otherwise.
 - c) Spaced no less than 3 bolt diameters between centres.
 - d) Located no less than 1.5 bolt diameters from bolt centre to the end or edge of any light gauge member.

10.0 Roof & Wall Sheeting

- 10.1 Roof & wall sheeting shall comply with AS 1397-2018 and have suitable corrosion protection complying with Table 7.2.2a of the 2022 Housing Provisions Standard.
 - 10.2 During construction and maintenance, no foot traffic shall occur within end spans of sheeting, foot traffic shall occur
 - a) Evenly across at least two ribs for corrugated profiled sheeting or
 - b) In the pans for pan-type profiled sheeting.
 - 10.3 Any roof skylights shall be approved by the engineer
 - 10.4 Safety mesh shall be installed in accordance with the building code
- 11.0 Door & Window Components**
- 11.1 Wind-locked roller doors are assumed to remain in-place and resist the ultimate limit state wind loading except for in cyclonic regions
 - 11.2 Non-wind-locked roller doors are assumed to have failed at the ultimate limit state wind loading
 - 11.3 Personal access doors shall be rated for the wind loading parameters stated in the design criteria (see section 3.0)
 - 11.4 All windows shall be in accordance with AS 1288-2021 & AS 2047-2014(+A2) as appropriate for the wind loading parameters stated in the design criteria (see section 3.0)



REV	DATE	DESCRIPTION	 COLD FORMED BUILDINGS ANOTHER COLD FORMED BUILDING DESIGNED BY ACT BUILDING SYSTEMS	 VENN ENGINEERING PO Box 3084 THIRROUL NSW 2515 sheds@venn.engineering ABN 39 626 802 257	Signed  Date 01-04-2025 Grant J Wood MIEAust CPEng NER RPEQ Registered EA Chartered Professional Engineer (No. 2383009) Registered Professional Engineer QLD (No. 14354) Registered Civil Engineer Building Practitioner VIC (No. PED002499) Registered Certifying Engineer (Structural) NT (No. 306371E5) Building Services Provider (Engineer Civil) TAS (No. 690030425)	Customer Name: Shane OMara Site Address: 1335 Greens Beach Road Kelso, TAS, 7270	DATE 01-04-2025 JOB NO. EALB1000382983 SHEET 1 of 10
A	01-04-2025	-					

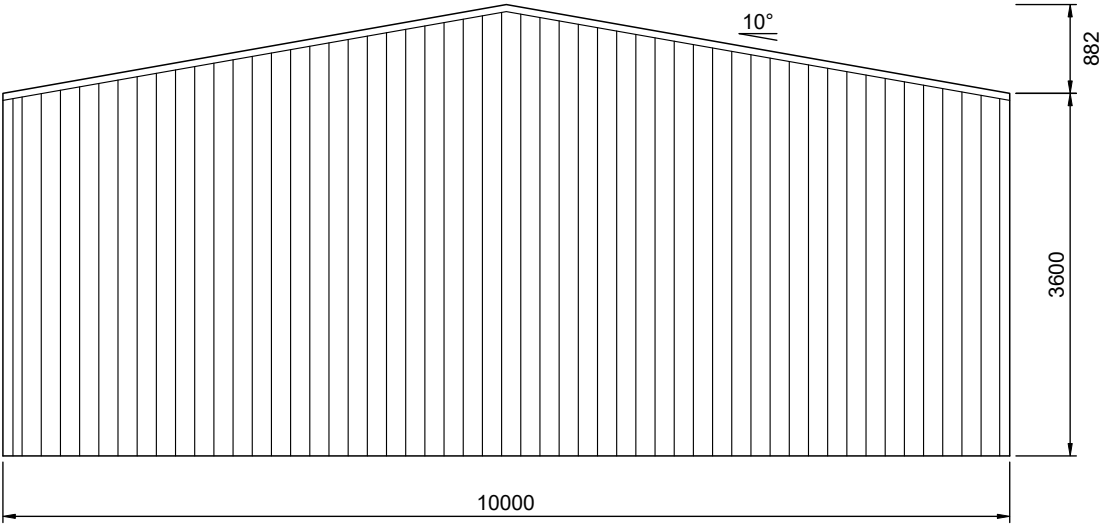


2

2

SIDEWALL B BUILDING ELEVATION

SCALE: 1:75



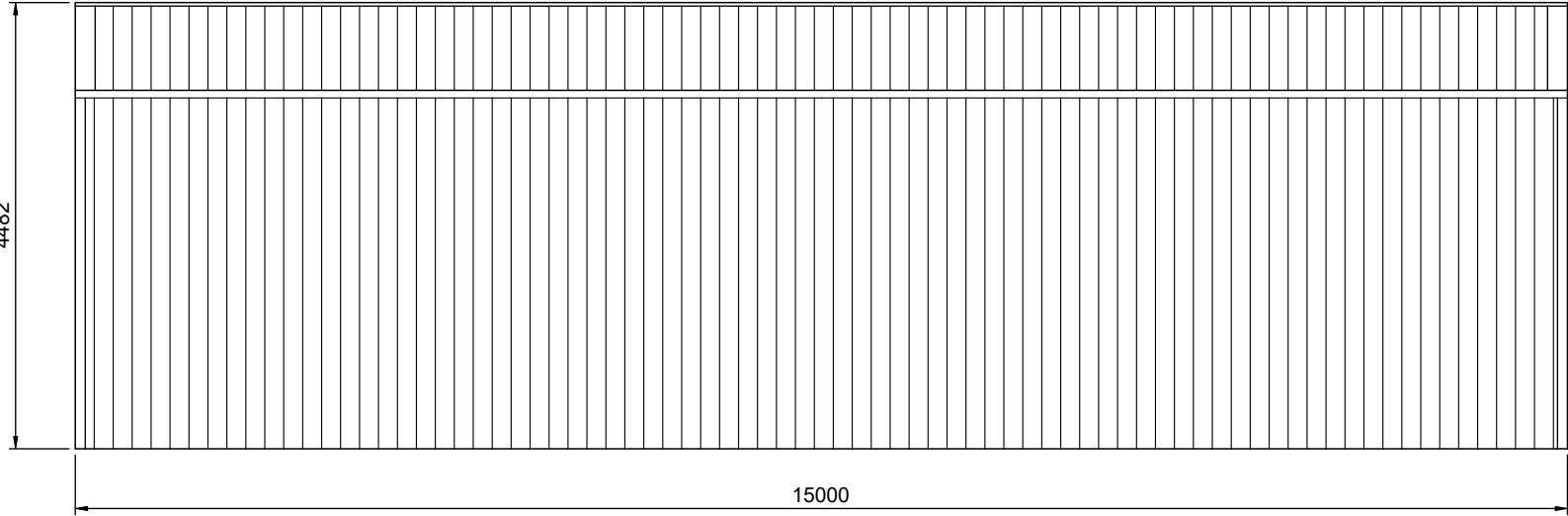
3

2

REAR BUILDING ELEVATION

SCALE: 1:75

FRAME #5

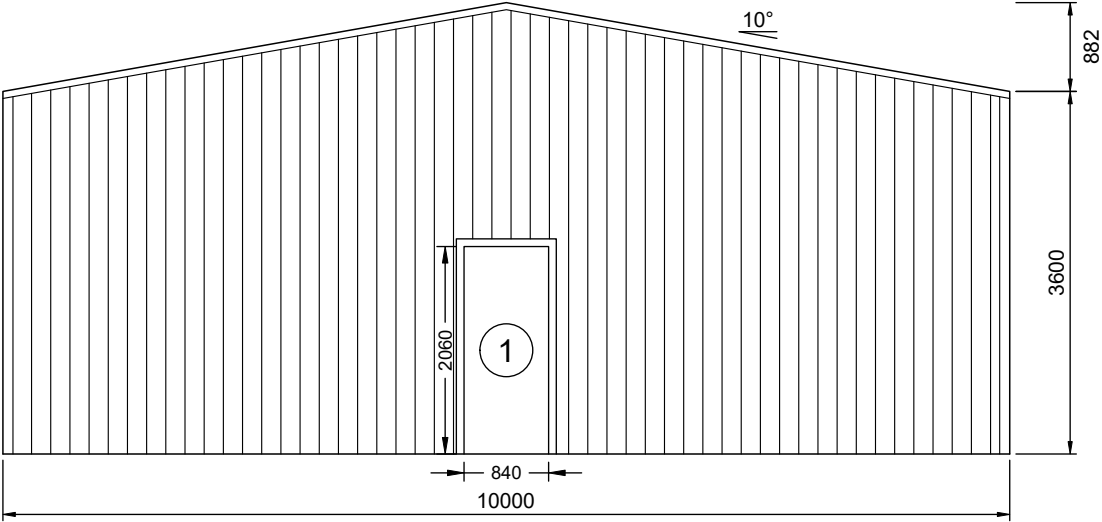


1

2

SIDEWALL A BUILDING ELEVATION

SCALE: 1:75



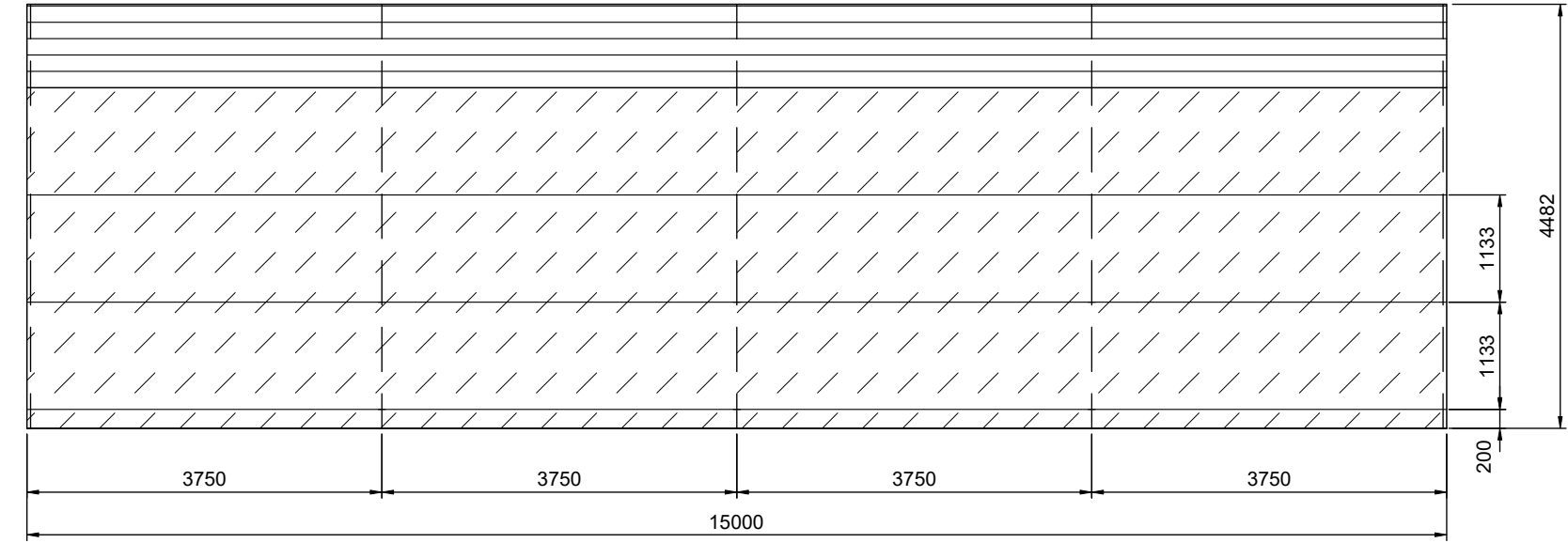
4

2

FRONT BUILDING ELEVATION

SCALE: 1:75

FRAME #1

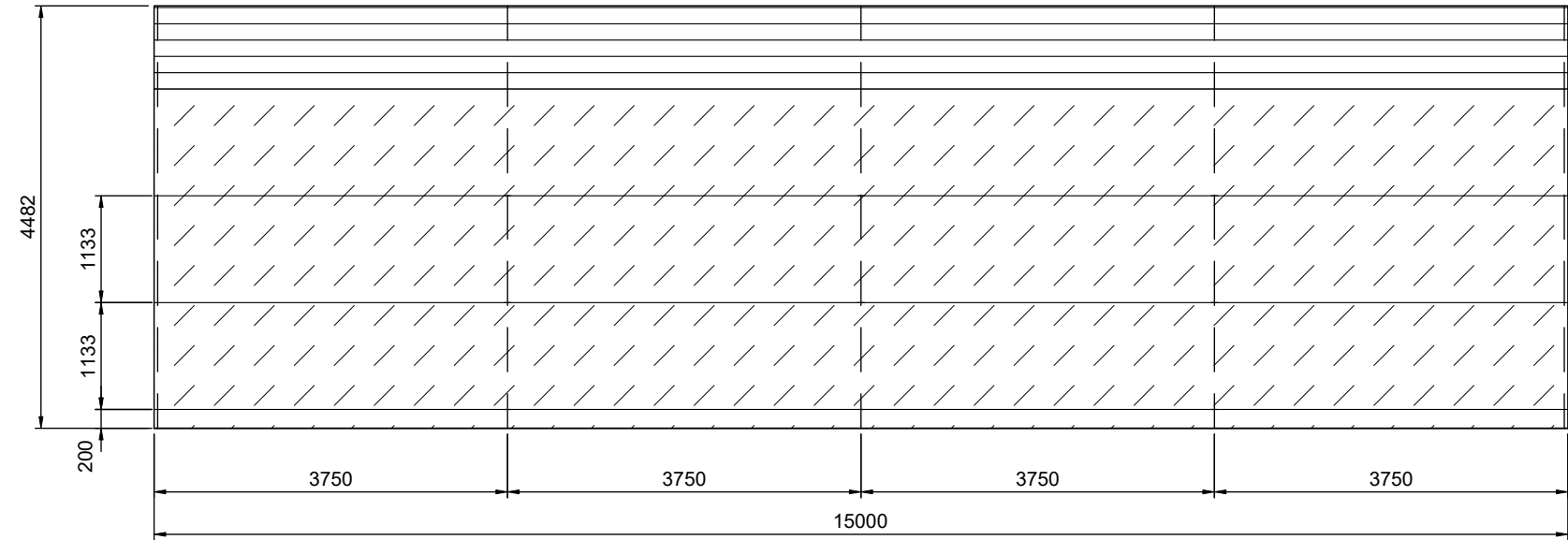


2 SIDEWALL B FRAMING ELEVATION

3 SCALE: 1:75

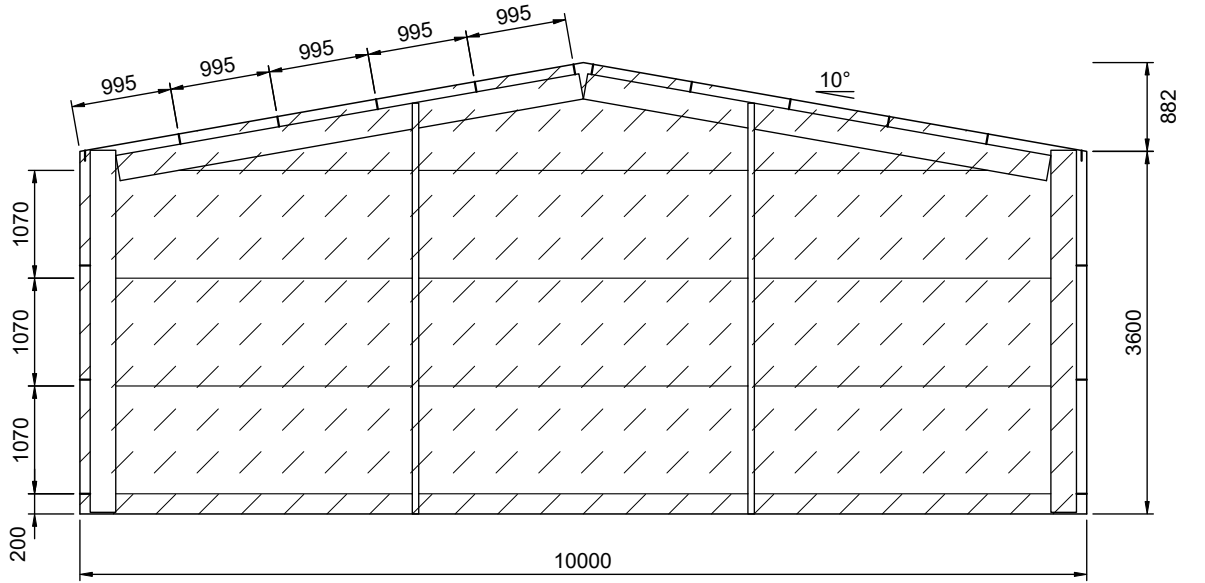
DIAPHRAGM SCHEDULE
SHEETING IN DIAPHRAGM SECTIONS (SHOWN
AS HATCHED AREA ON ELEVATIONS) NOT TO
BE CUT UNDER ANY CIRCUMSTANCES

WALL	DISTANCE FROM WALL EDGE
Sidewall 'A'	0-15000
Sidewall 'B'	0-15000
Endwall 'A'	0-4580 5420-10000
Endwall 'B'	0-10000



1 SIDEWALL A FRAMING ELEVATION

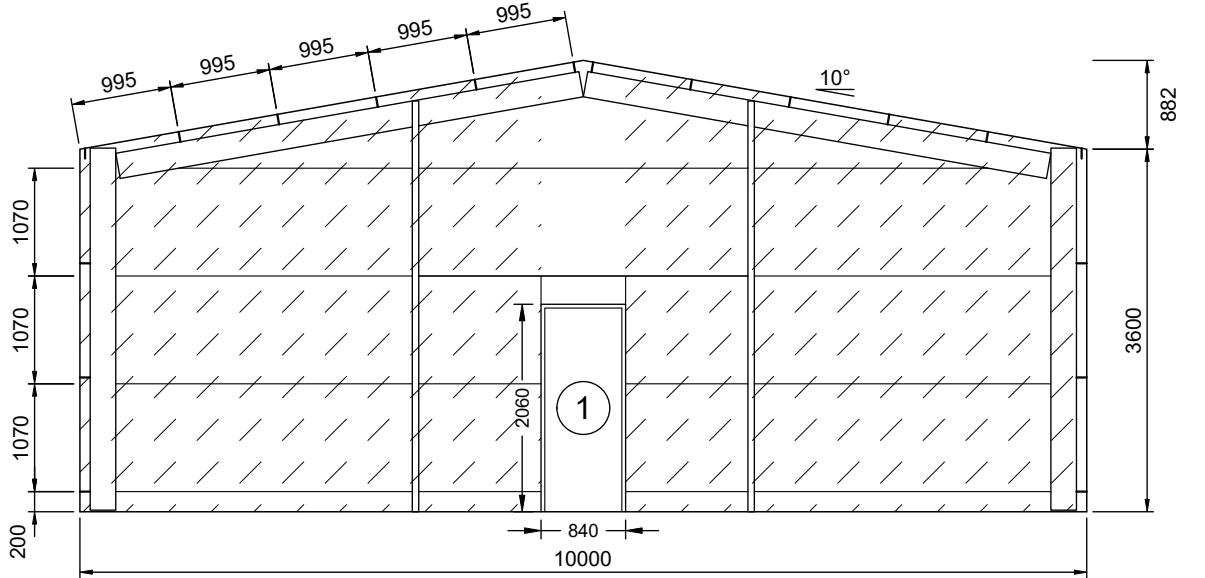
3 SCALE: 1:75



3 REAR FRAMING ELEVATION

3 SCALE: 1:75

FRAME #5



4 FRONT FRAMING ELEVATION

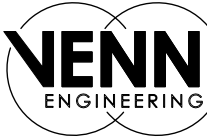
3 SCALE: 1:75

FRAME #1

REV	DATE	DESCRIPTION
A	01-04-2025	-



ANOTHER
COLD FORMED BUILDING
DESIGNED BY
ACT BUILDING SYSTEMS



PO Box 3084
THIRROUL NSW 2515
sheds@venn.engineering
ABN 39 626 802 257

Signed

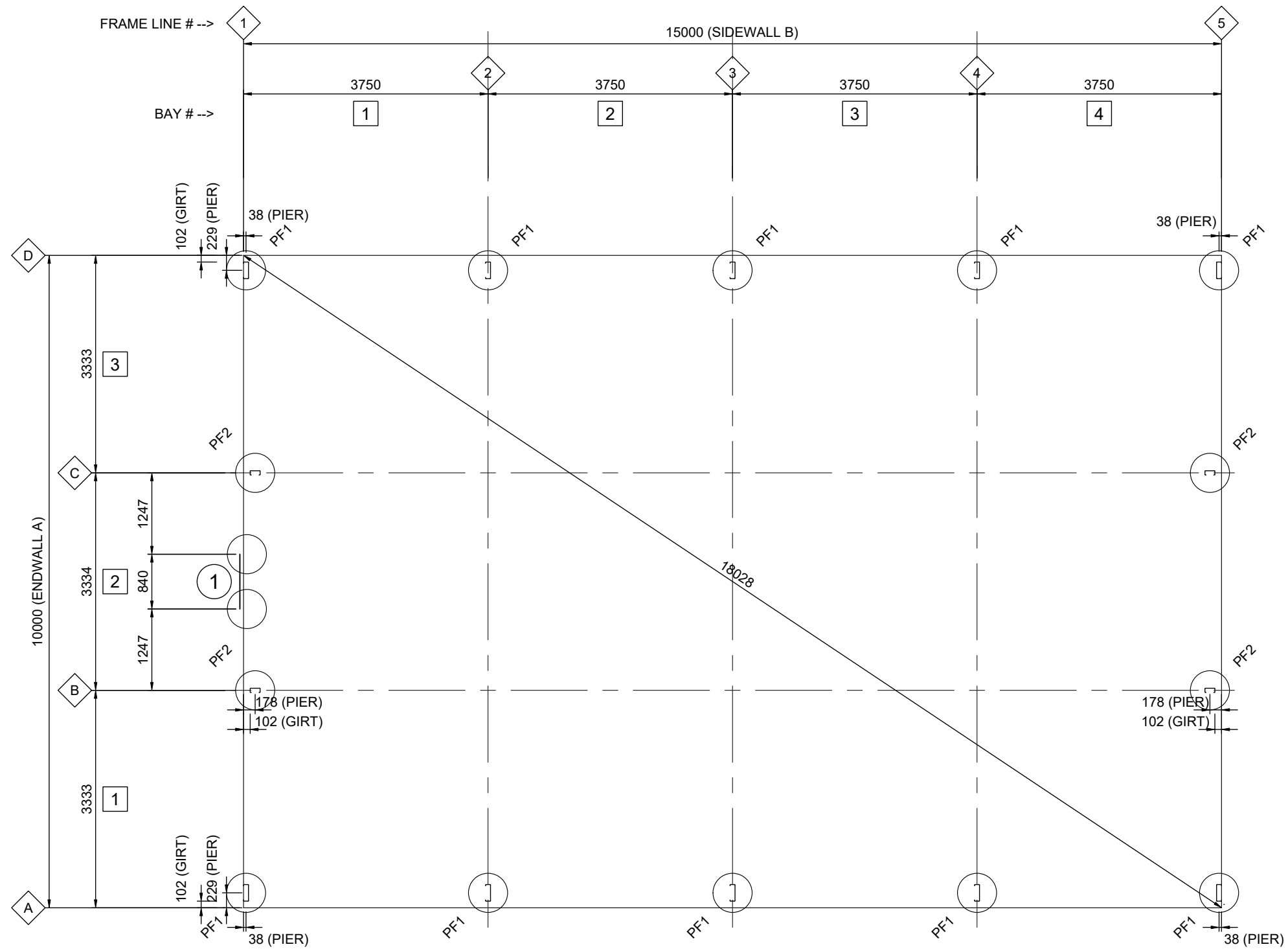
Grant J Wood

Date 01-04-2025

Grant J Wood MIEAust CPEng NER RPEQ
Registered EA Chartered Professional Engineer (No. 2383009)
Registered Professional Engineer QLD (No. 14384)
Registered Civil Engineer Building Practitioner VIC (No. PE0002499)
Registered Certifying Engineer (structural) NT (No. 306371ES)
Building Services Provider (Engineer Civil) TAS (No. 69030425)

Customer Name: Shane OMara
Site Address: 1335 Greens Beach Road
Kelso,
TAS, 7270

DATE 01-04-2025
JOB NO. EALB1000382983
SHEET 3 of 10



1
4

FOOTING/SLAB FLOOR PLAN

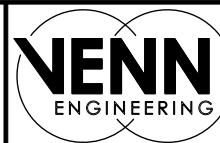
SCALE: 1:75

PF1 - 600Ø REINFORCED CONCRETE PIERS TO DETAIL
PF2 - 600Ø REINFORCED CONCRETE PIERS TO DETAIL

REV	DATE	DESCRIPTION
A	01-04-2025	-



ANOTHER
COLD FORMED BUILDING
DESIGNED BY
ACT BUILDING SYSTEMS



PO Box 3084
THIRROUL NSW 2515
sheds@venn.engineering
ABN 39 626 802 257

Signed

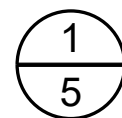
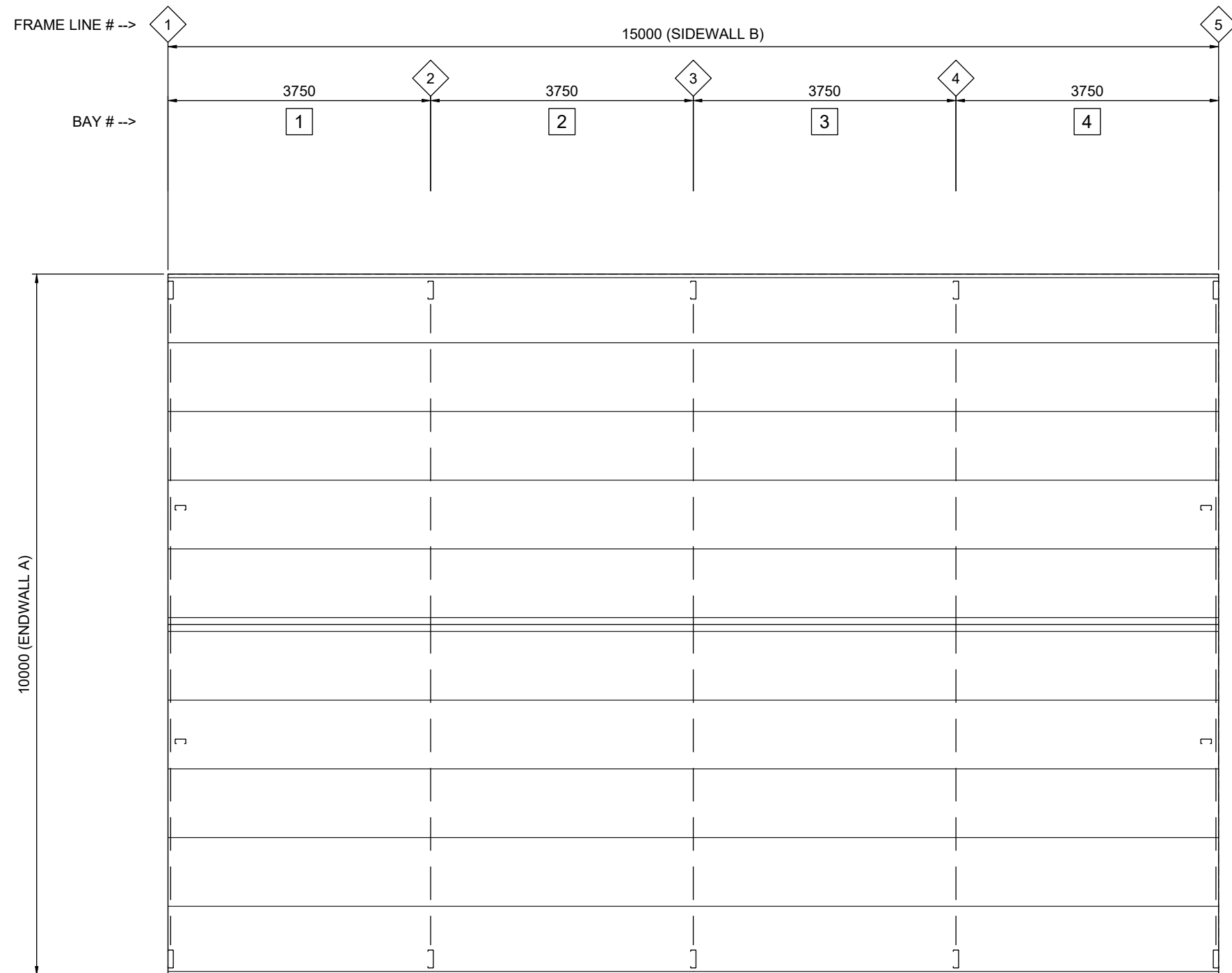
Grant J Wood

Date 01-04-2025

Grant J Wood MIEAust CPEng NER RPEQ
Registered EA Chartered Professional Engineer (No. 2383009)
Registered Professional Engineer QLD (No. 14384)
Registered Civil Engineer Building Practitioner VIC (No. PE0002499)
Registered Certifying Engineer (structural) NT (No. 306371ES)
Building Services Provider (Engineer Civil) TAS (No. 69030425)

Customer Name: Shane OMara
Site Address: 1335 Greens Beach Road
Kelso,
TAS, 7270

DATE 01-04-2025
JOB NO. EALB1000382983
SHEET 4 of 10



ROOF FRAMING PLAN

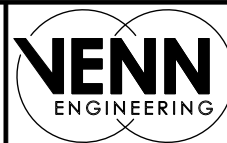
SCALE: 1:75

ROOF SHEETING IS USED AS DIAPHRAGM TO BRACE THE BUILDING AND IS NOT TO BE CUT UNDER ANY CIRCUMSTANCES

REV	DATE	DESCRIPTION
A	01-04-2025	-



ANOTHER
COLD FORMED BUILDING
DESIGNED BY
ACT BUILDING SYSTEMS



PO Box 3084
THIRROUL NSW 2515
sheds@venn.engineering
ABN 39 626 802 257

Signed

Grant J Wood MIEAust CPEng NER RPEQ
Registered EA Chartered Professional Engineer (No. 2383009)
Registered Professional Engineer QLD (No. 14384)
Registered Civil Engineer Building Practitioner VIC (No. PE0002499)
Registered Certifying Engineer (structural) NT (No. 306371ES)
Building Services Provider (Engineer Civil) TAS (No. 69030425)

Date 01-04-2025

Customer Name: Shane OMara
Site Address: 1335 Greens Beach Road
Kelso,
TAS, 7270

DATE 01-04-2025
JOB NO. EALB1000382983
SHEET 5 of 10

◦ INDICATES 12 mmØ GRADE 8.8 BOLT ZEE PURLIN OR GIRT AT PURLINS OUTER MOST FLANGE POINTS UP SLOPE CEE COLUMN OR RAFTER 40mm MIN. LAP OVER INTERIOR FRAME COLUMN OR RAFTER INSTALL 12 mmØ GRADE 8.8 BOLT INTO COLUMN OR RAFTER MEMBER	CORNER COLUMN OUTSIDE OF SIDEWALL GIRTS OR EAVE PURLIN ABOVE (4) #14 SCREWS AT EACH LEG OF CONNECTION ANGLE WITH 15mm END DISTANCE TO GIRT Z10010 ZEE ENDWALL GIRT NOTE: UNLESS NOTED OTHERWISE, USE THIS CONNECTION DETAIL FOR ALL CEE AND ZEE MEMBER-TO-MEMBER CONNECTIONS. OUTSIDE OR ENDWALL GIRTS OR ENDWALL EDGE TYP. CONNECTION ANGLE	RAFTER COPE GIRT LIP AS NECESSARY ENDWALL GIRT (2) #14 SCREWS DIRECTLY TO RAFTER FLANGE
D ZEE PURLIN/GIRT CONNECTION	E GIRTS IN-LINE CORNER COLUMN CONNECTIONS	E2 END GIRT TO RAFTER
◦ INDICATES 16 mmØ GRADE 8.8 BOLT C25019 FRAME RAFTER 604 mm 1463 mm C25019 FRAME COLUMN SGL. 3mm 10" HAUNCH BRACKET (9) #14 SCREWS AT EACH END OF KNEE BRACE (25mm O.C. MIN., 25mm MIN. EDGE DISTANCE) C10012 KNEE BRACE (OMIT AT ENDWALLS) 2283 mm TO TOP OF CONCRETE FOUNDATION	C25019 FRAME RAFTER SGL. 3mm 10" APEX BRACKET, WITH (12) 16 mmØ GRADE 8.8 BOLTS PER BRACKET	C25019 ENDWALL RAFTER NOTE: SEE DETAILS G1/7 & G2/7 FOR BASE CONNECTIONS OF ENDWALL MULLION. 50mm x 150mm x 200mm TALL MFA BRACKET WITH 4 X 14G TEK SCREWS INTO RAFTER WEB AND 4 X 14G TEK SCREWS INTO MULLION WEB C15019 (OPEN SIDE OF CEE MAY FACE EITHER DIRECTION, U.N.O.)
A HAUNCH CONNECTION	B APEX CONNECTION	C ENDWALL MULLION TO RAFTER

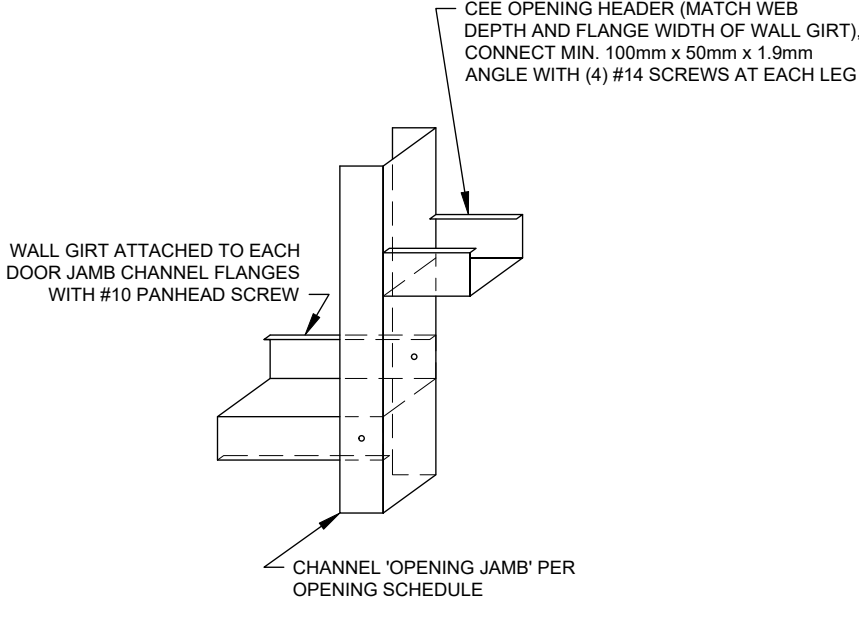
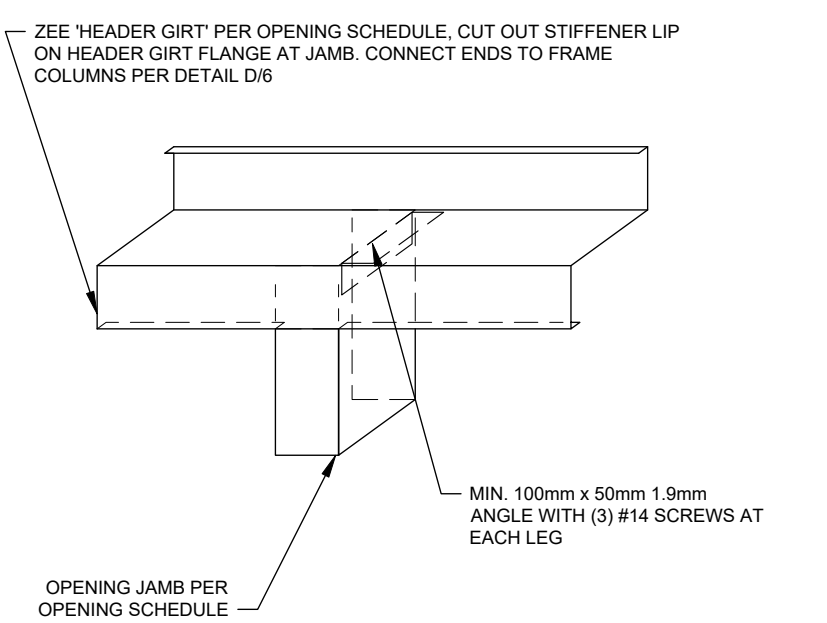
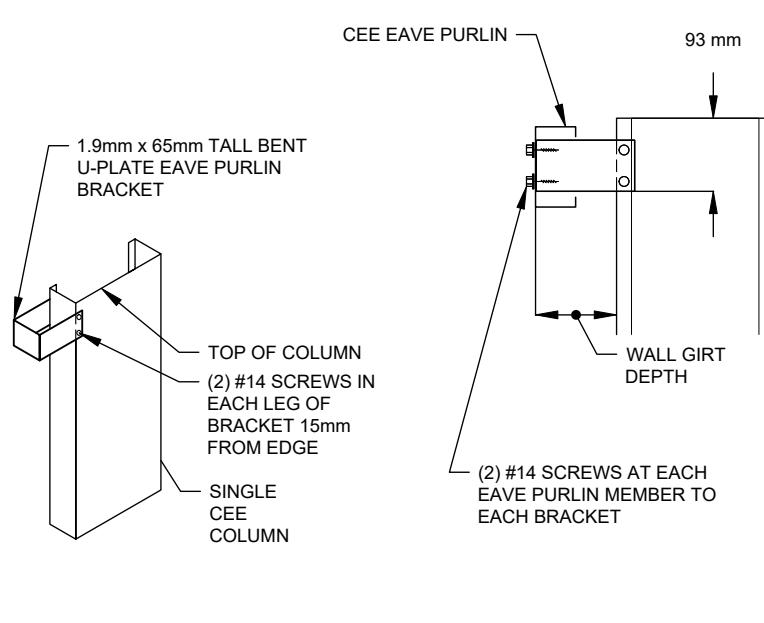
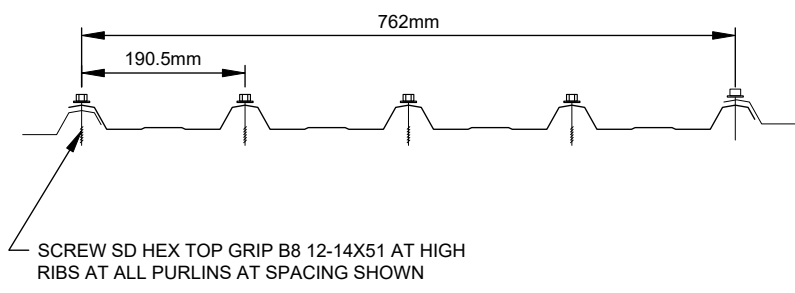
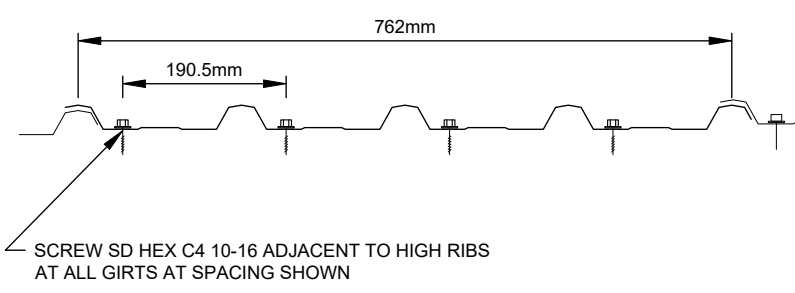
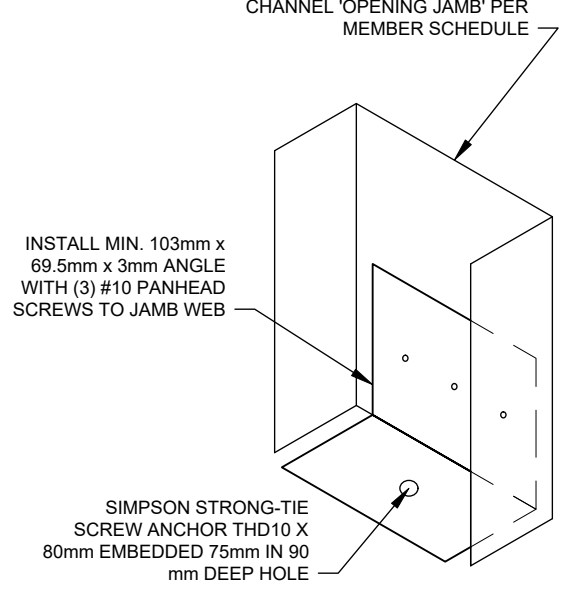
DETAIL DIMENSIONS ARE SHOWN IN MM UNLESS SPECIFIED OTHERWISE

REV	DATE	DESCRIPTION	COLD FORMED BUILDINGS ANOTHER COLD FORMED BUILDING DESIGNED BY ACT BUILDING SYSTEMS PO Box 3084 THIRROUL NSW 2515 sheds@venn.engineering ABN 39 626 802 257 Signed  Date 01-04-2025 Grant J Wood MIEAust CPEng NER RPEQ Registered EA Chartered Professional Engineer (No. 2383009) Registered Professional Engineer QLD (No. 14384) Registered Civil Engineer Building Practitioner VIC (No. PE0002499) Registered Certifying Engineer (structural) NT (No. 306371ES) Building Services Provider (Engineer Civil) TAS (No. 69030425)	Customer Name: Shane OMara Site Address: 1335 Greens Beach Road Kelso, TAS, 7270	DATE 01-04-2025 JOB NO. EALB1000382983 SHEET 6 of 10
A	01-04-2025	-			

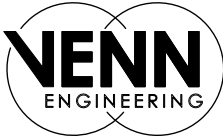
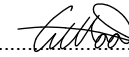
F4	G1	G2
F1	F2	F3
FRAME COLUMN BASE DETAIL 2	ENDWALL MULLION BASE DETAIL	ENDWALL MULLION BASE DETAIL 2
CORNER COLUMN BASE DETAIL	CORNER COLUMN BASE DETAIL 2	FRAME COLUMN BASE DETAIL

DETAIL DIMENSIONS ARE SHOWN IN MM UNLESS SPECIFIED OTHERWISE

REV	DATE	DESCRIPTION	COLD FORMED BUILDINGS  ANOTHER COLD FORMED BUILDING DESIGNED BY ACT BUILDING SYSTEMS	VENN ENGINEERING PO Box 3084 THIRROUL NSW 2515 sheds@venn.engineering ABN 39 626 802 257 Signed  Date 01-04-2025 Grant J Wood MIEAust CPEng NER RPEQ Registered EA Chartered Professional Engineer (No. 2383009) Registered Professional Engineer QLD (No. 14384) Registered Civil Engineer Building Practitioner VIC (No. PE0002499) Registered Certifying Engineer (structural) NT (No. 306371ES) Building Services Provider (Engineer Civil) TAS (No. 69030425)	Customer Name: Shane OMara Site Address: 1335 Greens Beach Road Kelso, TAS, 7270	DATE	01-04-2025
A	01-04-2025	-				JOB NO.	EALB1000382983
						SHEET	7 of 10

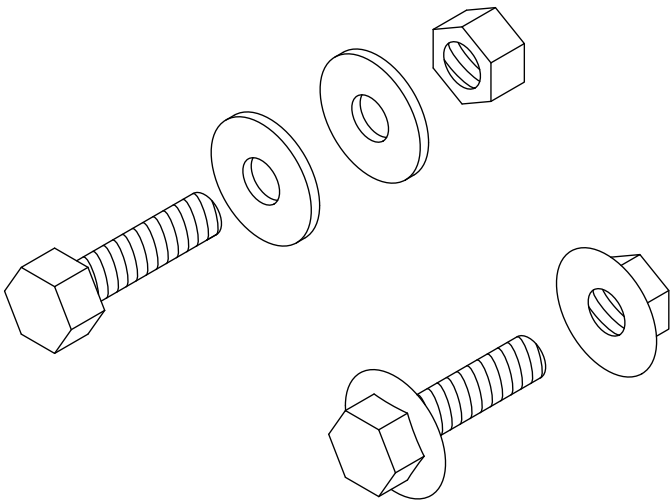
 CEE OPENING HEADER (MATCH WEB DEPTH AND FLANGE WIDTH OF WALL GIRT), CONNECT MIN. 100mm x 50mm x 1.9mm ANGLE WITH (4) #14 SCREWS AT EACH LEG WALL GIRT ATTACHED TO EACH DOOR JAMB CHANNEL FLANGES WITH #10 PANHEAD SCREW CHANNEL 'OPENING JAMB' PER OPENING SCHEDULE		 ZEE 'HEADER GIRT' PER OPENING SCHEDULE, CUT OUT STIFFENER LIP ON HEADER GIRT FLANGE AT JAMB. CONNECT ENDS TO FRAME COLUMNS PER DETAIL D/6 MIN. 100mm x 50mm 1.9mm ANGLE WITH (3) #14 SCREWS AT EACH LEG OPENING JAMB PER OPENING SCHEDULE		 CEE EAVE PURLIN 1.9mm x 65mm TALL BENT U-PLATE EAVE PURLIN BRACKET TOP OF COLUMN (2) #14 SCREWS IN EACH LEG OF BRACKET 15mm FROM EDGE SINGLE CEE COLUMN 93 mm WALL GIRT DEPTH (2) #14 SCREWS AT EACH EAVE PURLIN MEMBER TO EACH BRACKET	
K	OPENING JAMB GIRT CONNECTION	L	JAMB TO HEADER GIRT CONNECTION	O	EAVE PURLIN BRACKET
NOTE: ONLY STRUCTURAL INFORMATION IS INCLUDED IN THIS DETAIL. CONSULT PANEL MANUFACTURER FOR ADDTL WEATHERTIGHTNESS RECOMMENDATIONS.  762mm 190.5mm SCREW SD HEX TOP GRIP B8 12-14X51 AT HIGH RIBS AT ALL PURLINS AT SPACING SHOWN Stramit Monoclad 0.42		NOTE: ONLY STRUCTURAL INFORMATION IS INCLUDED IN THIS DETAIL. CONSULT PANEL MANUFACTURER FOR ADDTL WEATHERTIGHTNESS RECOMMENDATIONS.  762mm 190.5mm SCREW SD HEX C4 10-16 ADJACENT TO HIGH RIBS AT ALL GIRTS AT SPACING SHOWN Stramit Monoclad 0.42		 CHANNEL 'OPENING JAMB' PER MEMBER SCHEDULE INSTALL MIN. 103mm x 69.5mm x 3mm ANGLE WITH (3) #10 PANHEAD SCREWS TO JAMB WEB SIMPSON STRONG-TIE SCREW ANCHOR THD10 X 80mm EMBEDDED 75mm IN 90 mm DEEP HOLE	
H	ROOF SHEETING	I	WALL SHEETING	J	PA DOOR JAMB BASE CONNECTION

DETAIL DIMENSIONS ARE SHOWN IN MM UNLESS SPECIFIED OTHERWISE

REV	DATE	DESCRIPTION	  ANOTHER COLD FORMED BUILDING DESIGNED BY ACT BUILDING SYSTEMS  PO Box 3084 THIRROUL NSW 2515 sheds@venn.engineering ABN 39 626 802 257 Signed  Date 01-04-2025 Grant J Wood MIEAust CPEng NER RPEQ Registered EA Chartered Professional Engineer (No. 2383009) Registered Professional Engineer QLD (No. 14384) Registered Civil Engineer Building Practitioner VIC (No. PE0002499) Registered Certifying Engineer (structural) NT (No. 306371ES) Building Services Provider (Engineer Civil) TAS (No. 69030425)	Customer Name: Shane OMara Site Address: 1335 Greens Beach Road Kelso, TAS, 7270	DATE 01-04-2025 JOB NO. EALB1000382983 SHEET 8 of 10
A	01-04-2025	-			

MEMBER SCHEDULE			
COMPONENT			TYPE
CLEAR SPAN PORTAL (FRAMES 2-4)	MEMBER	RAFTER	Single C25019
		COLUMN	Single C25019
		APEX BRACE	-
		KNEE BRACE	Single C10012
	BASE CONNECTION	BRACKET TYPE	Base cleat bolt down bracket BC.250
		ANCHOR BOLTS	(2) Powers PTB-ETA1-PRO M16 x 150mm embedded 115mm
ENDWALL PORTAL (FRAMES 1, 5)	MEMBER	RAFTER	Single C25019
		COLUMN	Single C25019
		APEX BRACE	-
		KNEE BRACE	-
	BASE CONNECTION	BRACKET TYPE	Base cleat bolt down bracket BC.250
		ANCHOR BOLTS	(2) Powers PTB-ETA1-PRO M16 x 150mm embedded 115mm
ENDWALL MULLION	MEMBER	COLUMN	Single C15019
	BASE CONNECTION	BRACKET TYPE	Base cleat bolt down bracket BC.150
		ANCHOR BOLTS	(2) Simpson Strong-Tie Screw Anchor THD10 x 80mm embedded 75mm
ROOF PURLINS		MEMBER	Single Z10010 @ 995mm centres
EAVE PURLIN		MEMBER	Single C10010
SIDEWALL GIRTS		MEMBER	Single Z10012 @ 1133mm centres
ENDWALL GIRTS		MEMBER	Single Z10010 @ 1070mm centres
OPENING (1)	MEMBER	JAMB	Single Unlipped 102 x 1.5 Cee
		HEADER/SILL	Single C10012
	BASE CONNECTION	BRACKET TYPE	Angle base connection ABC.SINGLE
		ANCHOR BOLTS	(1) Simpson Strong-Tie Screw Anchor THD10 x 80mm embedded 75mm

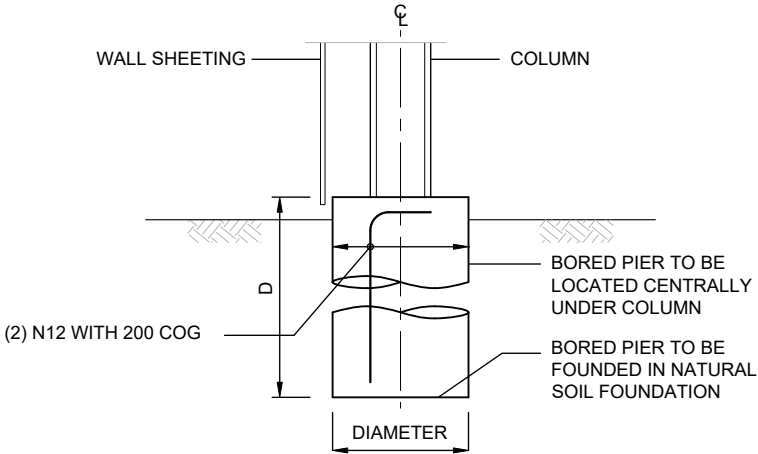
ALL NUTS AND BOLTS TO
HAVE WASHER OR
FLANGED HEADS



T

BOLT OPTIONS

	PF1	PF2
D	650mm	600mm
Diameter	600mm	600mm

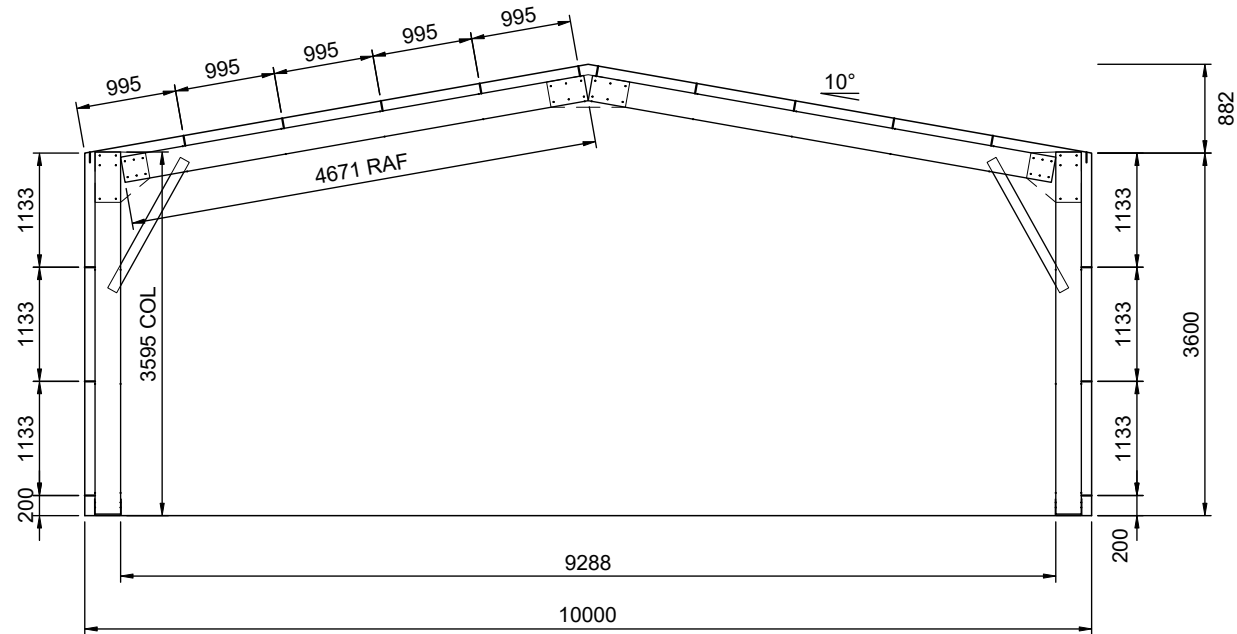


Y

PIER DETAIL

DETAIL DIMENSIONS ARE SHOWN IN MM UNLESS SPECIFIED OTHERWISE

REV	DATE	DESCRIPTION	COLD FORMED BUILDINGS  ANOTHER COLD FORMED BUILDING DESIGNED BY ACT BUILDING SYSTEMS		VENN ENGINEERING PO Box 3084 THIRROUL NSW 2515 sheds@venn.engineering ABN 39 626 802 257	Signed  Date 01-04-2025 Grant J Wood MIEAust CPEng NER RPEQ Registered EA Chartered Professional Engineer (No. 2383009) Registered Professional Engineer QLD (No. 14384) Registered Civil Engineer Building Practitioner VIC (No. PE0002499) Registered Certifying Engineer (structural) NT (No. 306371ES) Building Services Provider (Engineer Civil) TAS (No. 69030425)	Customer Name: Shane OMara Site Address: 1335 Greens Beach Road Kelso, TAS, 7270	DATE 01-04-2025 JOB NO. EALB1000382983 SHEET 9 of 10
A	01-04-2025	-						



1

10

INTERNAL FRAMING ELEVATION

SCALE: 1:75

FRAMES 2-4

REV	DATE	DESCRIPTION	COLD FORMED BUILDINGS ACT ANOTHER COLD FORMED BUILDING DESIGNED BY ACT BUILDING SYSTEMS		VENN ENGINEERING PO Box 3084 THIRROUL NSW 2515 sheds@venn.engineering ABN 39 626 802 257	Signed  Date 01-04-2025 Grant J Wood MIEAust CPEng NER RPEQ Registered EA Chartered Professional Engineer (No. 2383009) Registered Professional Engineer QLD (No. 14384) Registered Civil Engineer Building Practitioner VIC (No. PE0002499) Registered Certifying Engineer (structural) NT (No. 306371ES) Building Services Provider (Engineer Civil) TAS (No. 69030425)	Customer Name: Shane OMara Site Address: 1335 Greens Beach Road Kelso, TAS, 7270	DATE 01-04-2025 JOB NO. EALB1000382983 SHEET 10 of 10
A	01-04-2025	-						

Generic Temporary Bracing Information

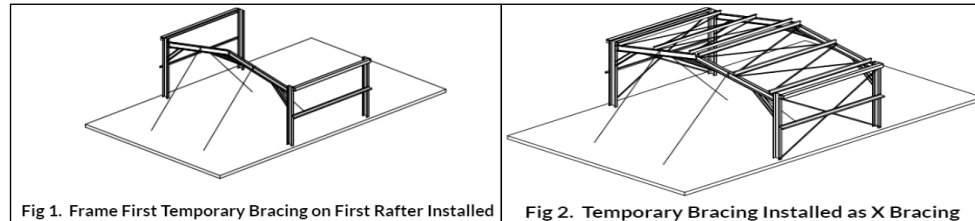
The installation of temporary bracing is critical to avoid building collapse or damaging structural movement during construction. This collapse can occur with no notice and as such the installation of appropriate temporary bracing is critical to avoid damage, injury, and possible death. Determination, procurement, and correct installation of temporary bracing is the responsibility of the builder / primary contractor / installer.

Bracing Materials

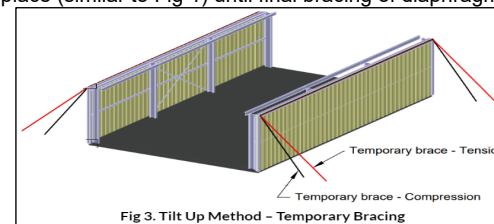
The constructor / installer is to supply suitably sized materials for temporary bracing. These materials are generally capable of tension, but in some circumstances will need to be capable of tension and compression. Load rated ratchet strapping of an appropriate size can be used to temporarily 'x-brace' bays in both directions, until the final bracing systems are fully installed. This is especially critical for buildings where X Bracing is not required in the final structure due to the use of moment frames or diaphragm bracing.

Temporary Bracing Location

The location of Temporary bracing will depend on the installation method used. Installation should be completed in accordance with the Construction Package, Engineering Plans, and Instruction Manuals. If the Frame First Method (most common) is used, then the use of tension only bracing and creating temporarily braced bays as per Fig 1 and Fig 2. can be used. As a basic guide, a minimum of every 4th bay should have temporary bracing installed as per Fig 2.



If the Tilt Up Method is used (where walls are constructed on the ground And then tilted into place), then the tops of columns are braced with a tension and compression brace in the same direction Fig 3. Then rafters and purlins can be installed with temporary bracing holding rafters in place (similar to Fig 1) until final bracing of diaphragm sheeting is installed.



Typically, braces should be positioned diagonally across the structure from the top to the bottom, intersecting near the midpoint to provide stability, optimally at a 45-degree angle but no less than a 20-degree angle. The connection strength of temporary bracing is a critical consideration and these connections must be capable of resisting the potentially substantial temporary bracing loads – whether this connection point be to the building, the foundations or to the ground. Dependent upon building size this may include heavy angles and post installed concrete anchors. The temporary bracing methods used must be capable of fully stabilising the structure during the construction process.

Additional Temporary Bracing

The temporary bracing described is a minimum requirement for a standard-sized building in average conditions. Additional consideration should be given to larger building spans and/or challenging site conditions. There may also be an increased risk in relation to partially completed buildings and exposed sites. It is recommended that extra temporary bracing is utilized if moderate wind speeds are expected on site. Additional support elements, such as steel cables may need to be introduced that can be attached to the building's framework and anchored to the ground or other stable structures to provide extra stability. The frame should remain rigid throughout and such responsibility lies with the constructor. Buildings should not be left in a partially completed state longer than necessary.

Bracing Removal

The temporary bracing should not be removed until all purlins, girts and permanent cross bracing, diaphragm bracing or moment frames where used are installed. The temporary bracing is to remain in place where possible, until the roof and wall cladding is fully installed. If you need any further information regarding the installation of temporary bracing or are at all unsure of the necessary requirements for this specific building, there are guides available through various industry bodies:

<https://www.safeworkaustralia.gov.au/ 'Construction work – steel erection. Information sheet', 2016.>
<https://www.steel.org.au/ 'Structural steelwork fabrication and erection code of practice', 2014.>
<https://www.standards.org.au/ AS/NZS 5131:2016 'Structural steelwork – Fabrication and erection.>

Support is also available at support@actbuildingsystems.com.

THE ABOVE INFORMATION REGARDING TEMPORARY BRACING DOES NOT FORM PART OF THE ENGINEERING CERTIFICATION FOR THIS DESIGN AND IS PROVIDED AS A GUIDE TO AID INSTALLATION ONLY.

STRUCTURAL GENERAL NOTES

1.0 General

- 1.1 These drawings are
 - a) Jointly owned by Easy Shed and Venn Engineering Pty Ltd
 - b) Provided for the sole purpose of obtaining building approval and guiding construction of a single building at the job address shown in the title block
 - c) Prohibited to be used for any other purpose without written authorisation from Easy Shed and Venn Engineering Pty Ltd.
 - d) Only valid if signed by the engineer and must not be altered in any way without signed approval from the engineer.
 - e) Produced to scale but dimensions shall not be obtained by measuring the drawings. All dimensions are in millimeters unless stated otherwise.
- 1.2 The engineer accepts no liability or responsibility for the contents of drawings that are invalid.
- 1.3 The word 'the engineer' used in these notes refers to an employee or nominated representative of Venn Engineering Pty Ltd.
- 1.4 The engineer is not the project manager or site supervisor for this project. It is the responsibility of the project manager or site supervisor in charge to ensure that the non-structural requirements of the Governing Building Code are considered and appropriately designed. This includes, but not limited to, fire & bushfire design, access requirements, future roof access requirements, lighting, glazing and electrical design, etc.

2.0 Structural Design

- | | | | | | | | | | | | |
|-----------------------------------|---|-------------------------|--|-------------------|-------------------------|--|-------------------------|--|--------------------|-----------------------------------|------------------|
| 2.1 | <p>The structural framing components detailed in these drawings have been designed in accordance with the following documents for the design criteria detailed in these notes</p> <table border="0"> <tr> <td>Governing Building Code</td> <td>2022 National Construction Code – Building Code of Australia Volume 2 and 2022 Housing Provisions Standard</td> </tr> <tr> <td>Loading Standards</td> <td>AS/NZS 1170.0:2002(+A5)</td> </tr> <tr> <td></td> <td>AS/NZS 1170.1:2002(+A2)</td> </tr> <tr> <td></td> <td>AS/NZS 1170.2:2021</td> </tr> <tr> <td>Cold formed Steel member standard</td> <td>AS/NZS 4600:2018</td> </tr> </table> | Governing Building Code | 2022 National Construction Code – Building Code of Australia Volume 2 and 2022 Housing Provisions Standard | Loading Standards | AS/NZS 1170.0:2002(+A5) | | AS/NZS 1170.1:2002(+A2) | | AS/NZS 1170.2:2021 | Cold formed Steel member standard | AS/NZS 4600:2018 |
| Governing Building Code | 2022 National Construction Code – Building Code of Australia Volume 2 and 2022 Housing Provisions Standard | | | | | | | | | | |
| Loading Standards | AS/NZS 1170.0:2002(+A5) | | | | | | | | | | |
| | AS/NZS 1170.1:2002(+A2) | | | | | | | | | | |
| | AS/NZS 1170.2:2021 | | | | | | | | | | |
| Cold formed Steel member standard | AS/NZS 4600:2018 | | | | | | | | | | |
| 2.2 | <p>These drawings are also the limit of the Structural Design, any requirements for additional structural design of other items included in the project are specifically excluded if not shown on these drawings. This includes, but not limited to, requirements for additional loads that aren't specified including flood design loads, additional roof loads from solar panels, retaining walls required on site, driveway design etc.</p> | | | | | | | | | | |
| 2.3 | <p>These structural drawings and specifications represent the finished structure. The building is not considered complete until the installation of all components and details shown herein are installed according to the drawings.</p> | | | | | | | | | | |
| 2.4 | <p>No alterations are to be made to this structure without written approval of the engineer. This includes, but not limited to, modification to the plans and/or specifications, be the installation of additional openings, increased roof loads, skylight roof sheets or removal of cladding. If changes are made without written approval, such changes shall the legal and financial responsibility of the contractor or sub-contractors involved and it shall be their full responsibility to replace or repair the condition of the building as directed by the engineer.</p> | | | | | | | | | | |

3.0 Design Criteria

Building class.....	10a
Building Importance level.....	2
Wind region.....	A4
Terrain category.....	2
Topographic multiplier.....	1
Shielding multiplier.....	1
Ultimate design wind speed.....	41.0 m/s
Snow load.....	0.00 kPa
Slab imposed load.....	2.5 kPa or 9kN applied over 0.3x0.3m area (light vehicles)
Allowable bearing capacity of foundation supporting footings.....	100 kPa
Allowable bearing capacity of foundation supporting slab.....	50 kPa
Allowable skin friction of foundation.....	25 kPa
Soil Type.....	Non-aggressive (not saline or acid sulfate)

4.0 Installation Building Contractor Responsibilities

- 4.1 The contractor shall verify and confirm all site conditions and dimensions. Any discrepancies between drawings and site conditions shall be referred to the engineer for decision before proceeding with the work.
- 4.2 All workmanship and materials are to be in accordance with the Governing Building Code including all relevant Australian Standards and local statutory authorities except where varied by the contract documents.
- 4.3 The contractor shall be responsible for maintaining the structure in a stable condition and ensuring no part is overstressed under construction activities. They shall provide all temporary bracing, shoring or other means to avoid excessive stresses and to hold structural elements in place during erection. These temporary provisions shall remain in place until sufficient permanent members are erected to ensure the safety of partially erected structures. The contractor is responsible for meeting all laws regulating the erection of steel buildings including, but not limited to, Safe Work Australia guidelines.
- 4.4 The contractor shall be responsible for the location of all services in the vicinity of the works. Any services shown are provided for information only. The contractor shall confirm the location of all services prior to commencing and shall be responsible for the repair of any damage caused to services, as well as any loss incurred because of the damage to any service.

5.0 Foundation

- 5.1 The bearing capacity of the foundation supporting the footings and slab shall be confirmed before any concrete is placed.
- 5.2 No earth or debris is to fall into the footings or piers before and during placement of concrete.
- 5.3 All footings shall be located centrally under walls and columns unless noted otherwise.
- 5.4 Concrete embedment depths do not apply to locations where any uncompacted fill or disturbed ground exists or where walls of the excavation will not stand without support. Request further advice from the engineer in these circumstances.
- 5.5 Fill used for the support of a slab on ground shall be controlled fill or rolled fill as in accordance with clause 6.4.2 of AS 2870-2011.
- 5.6 Slabs less than 100sq.m in plan area are suitable for AS 2870-2011 site classes A, S & M. For larger slabs or for site classes M-D, H1, H1-D, H2, H2-D, E & E-D, the slab may experience cracking more than is considered normally acceptable. The cracking is considered of aesthetic concern only and should not effect the structural performance of the slab or shed. If this is not desired, contact the engineer for further advice.

6.0 Concrete

- 6.1 Concrete placement and workmanship shall be in accordance with AS 3600-2018 & AS 2870-2011.
- 6.2 Concrete shall be
 - a) N25 with slump of 100 mm in accordance with AS 1379-2007, with 20 mm maximum nominal aggregate size and no admixtures.
 - b) consolidated by mechanical vibration.
 - c) Cured for a minimum of 7 days using continuous ponding with potable water.
- 6.3 No holes, chases or embedment of pipes other than those shown on the drawings shall be made in concrete members without prior approval of the engineer.
- 7.0 Reinforcement**
 - 7.1 Reinforcement shall comply with AS/NZ 4671-2019.
 - 7.2 Reinforcement is represented diagrammatically and not necessarily shown in true projection.
 - 7.3 Welding of reinforcement shall not be permitted without the approval of the engineer.
 - 7.4 All reinforcement shall be securely supported in its correct position ensuring the correct cover during placing of concrete by approved bar chairs, spacers or support bars.
Approved chairs include stainless steel or plastic bar chairs for bottom reinforcement and plastic tipped wire bar chairs for top reinforcement.
All chairs to be spaced at maximum of 750mm centres.
 - 7.5 Cover to reinforcement shall be:
 - a) 50mm for surfaces of concrete in contact with the ground;
 - b) 30mm for top surfaces of slabs fully enclosed by the building without open bays or
 - c) 60mm for top surfaces of slabs more than 1 km from the coastline with open bays.
 - d) For buildings with open bays within 1km of the coast, contact the engineer for cover and concrete grade requirements.
 - 7.6 Reinforcement shall be lapped 500mm for 12mmØ bars and 800mm for 16mmØ bars.
 - 7.7 Mesh reinforcement shall be lapped such that the two outermost wires of one sheet overlap the two outermost wires of the other sheet by 25 mm.
 - 7.8 Hooks, bends and cogs to be in accordance with AS 3600-2018 unless noted otherwise on drawings.

8.0 Anchor Bolts

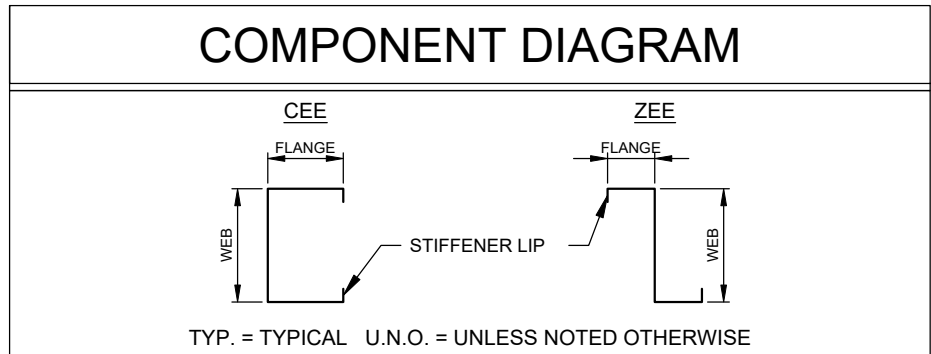
- 8.1 All anchors bolts shall be installed in accordance with the manufacturer's installation instructions.
- 8.2 Drill holes using a percussion drill (coring not permitted) to the correct hole diameter and depth as specified in the drawings.
- 8.3 Thoroughly clean and blow the dust out of the holes using the cleaning accessories prescribed by the manufacturer's instructions.
- 8.4 Substitution of anchors bolts and chemical epoxy adhesive is not permitted unless written confirmation from the engineer is provided.
- 8.5 For chemical anchors, ensure load is not applied to the anchors whilst epoxy adhesive is curing.

9.0 Light Gauge Cold-formed Steel

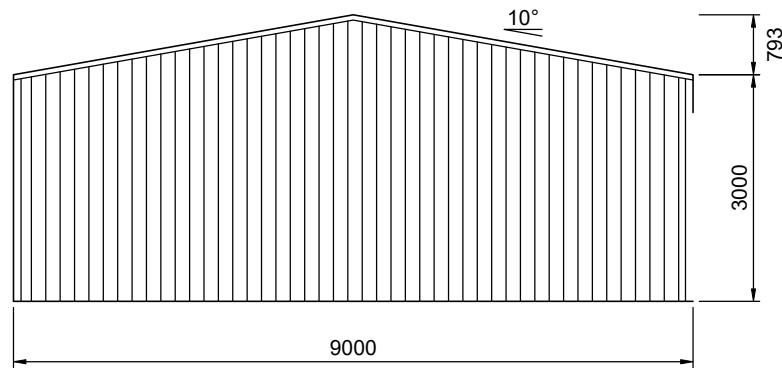
- 9.1 All light gauge cold-formed steel shall comply with AS 1397-2021 and be the following grades
- | Thickness(mm) | Steel grade (yield stress, MPa) | Protective coating (g/m ²) |
|---------------------|---------------------------------|--|
| BMT ≤ 1.0mm | G550 | Z350 |
| 1.0mm < BMT < 1.5mm | G500 | Z350 |
| 1.5mm ≤ BMT ≤ 3.0mm | G450 | Z350 |
- 9.2 Welding of light gauge cold-formed steel shall not be permitted.
- 9.3 Column and rafter members shall not be drilled or notched without prior approval of the engineer.
- 9.4 Round holes may be drilled through any girt or purlin member within the middle third of the depth of that member and not within 600mm of member end unless noted otherwise.
- 9.5 All bolts used to connect light gauge cold-formed steel members shall be
- a) Zinc coated M12 (min.) grade 4.6 snug tightened complying to AS 1111.1-2015 & AS 1112.3-2015 unless noted otherwise.
 - b) Spaced no less than 3 bolt diameters between centres.
 - c) Located no less than 1.5 bolt diameters from bolt centre to the end or edge of any light gauge member.
- 9.6 All screws used to connect light gauge cold formed steel members (excluding sheeting) shall be
- a) 10g (min.) self-drilling screws complying with AS 3566.1-2002.
 - b) Corrosion resistance class 4 in accordance with AS 3566.2-2002 for buildings within 1 km from the coastline with open bays or class 3 otherwise.
 - c) Spaced no less than 3 bolt diameters between centres.
 - d) Located no less than 1.5 bolt diameters from bolt centre to the end or edge of any light gauge member.

10.0 Roof & Wall Sheeting

- 10.1 Roof & wall sheeting shall comply with AS 1397-2018 and have suitable corrosion protection complying with Table 7.2.2a of the 2022 Housing Provisions Standard.
 - 10.2 During construction and maintenance, no foot traffic shall occur within end spans of sheeting, foot traffic shall occur
 - a) Evenly across at least two ribs for corrugated profiled sheeting or
 - b) In the pans for pan-type profiled sheeting.
 - 10.3 Any roof skylights shall be approved by the engineer
 - 10.4 Safety mesh shall be installed in accordance with the building code
- 11.0 Door & Window Components**
- 11.1 Wind-locked roller doors are assumed to remain in-place and resist the ultimate limit state wind loading except for in cyclonic regions
 - 11.2 Non-wind-locked roller doors are assumed to have failed at the ultimate limit state wind loading
 - 11.3 Personal access doors shall be rated for the wind loading parameters stated in the design criteria (see section 3.0)
 - 11.4 All windows shall be in accordance with AS 1288-2021 & AS 2047-2014(+A2) as appropriate for the wind loading parameters stated in the design criteria (see section 3.0)



REV	DATE	DESCRIPTION	 COLD FORMED BUILDINGS ANOTHER COLD FORMED BUILDING DESIGNED BY ACT BUILDING SYSTEMS	 VENN ENGINEERING PO Box 3084 THIRROUL NSW 2515 sheds@venn.engineering ABN 39 626 802 257	Signed  Date 01-07-2025 Grant J Wood MIEAust CPENG NER RPEQ Registered EA Chartered Professional Engineer (No. 2383009) Registered Professional Engineer QLD (No. 14384) Registered Civil Engineer Building Practitioner VIC (No. PE0002499) Registered Certifying Engineer (Structural) NT (No. 30637 FES) Building Services Provider (Engineer Civil) TAS (No. 60030425)	Customer Name: Shane Omara Site Address: 1335 Greens Beach Road Kelso, TAS, 7270	DATE 01-07-2025 JOB NO. EALB1009371454 SHEET 1 of 10
A	01-07-2025	-					

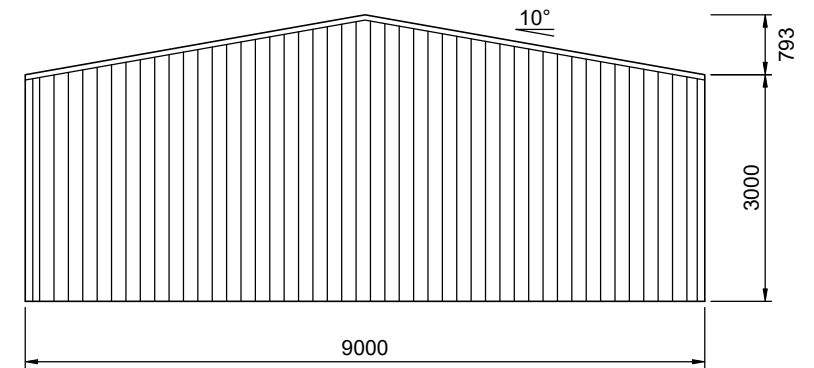


4

2

FRONT BUILDING ELEVATION

SCALE: 1:100

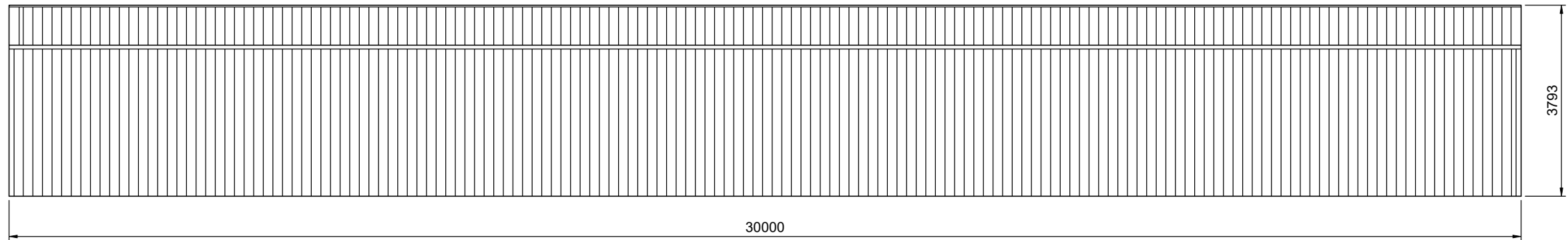


3

2

REAR BUILDING ELEVATION

SCALE: 1:100

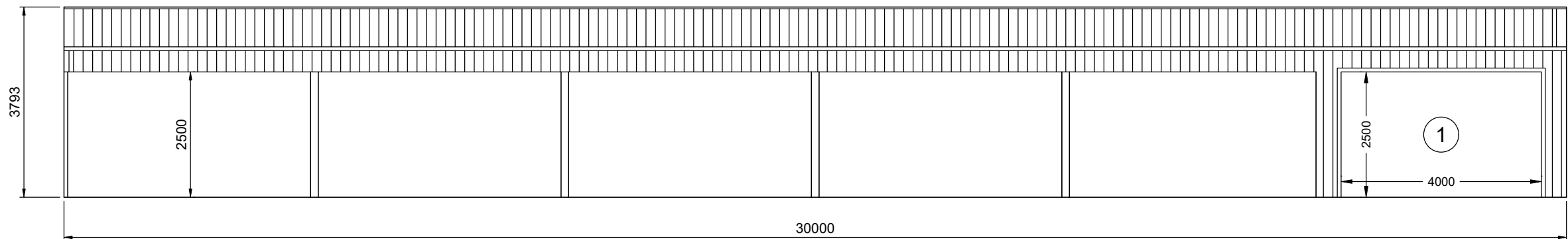


2

2

SIDEWALL B BUILDING ELEVATION

SCALE: 1:100



1

2

SIDEWALL A BUILDING ELEVATION

SCALE: 1:100

REV	DATE	DESCRIPTION
A	01-07-2025	-

COLD FORMED BUILDINGS

ACT

ANOTHER COLD FORMED BUILDING DESIGNED BY ACT BUILDING SYSTEMS

VENN ENGINEERING

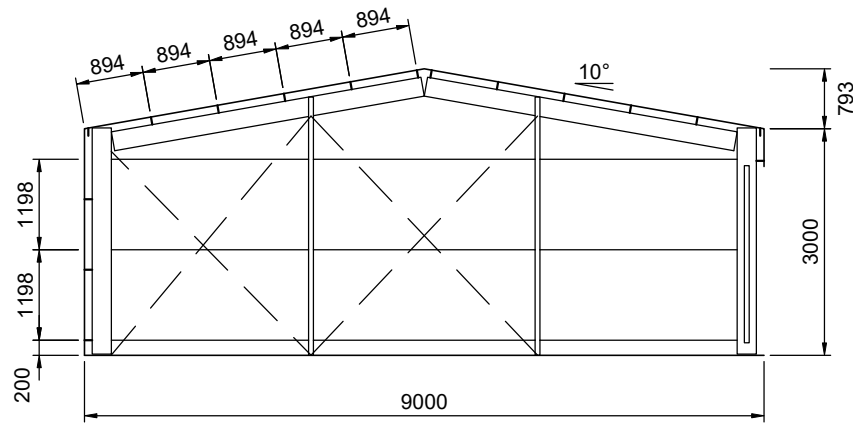
PO Box 3084
THIRROUL NSW 2515
sheds@venn.engineering
ABN 39 626 802 257

Signed  Date 01-07-2025

Grant J Wood MIEAust CPEng NER RPEQ
Registered EA Chartered Professional Engineer (No. 2383009)
Registered Professional Engineer QLD (No. 14384)
Registered Civil Engineer Building Practitioner VIC (No. PE0002499)
Registered Certifying Engineer (structural) NT (No. 306371ES)
Building Services Provider (Engineer Civil) TAS (No. 69030425)

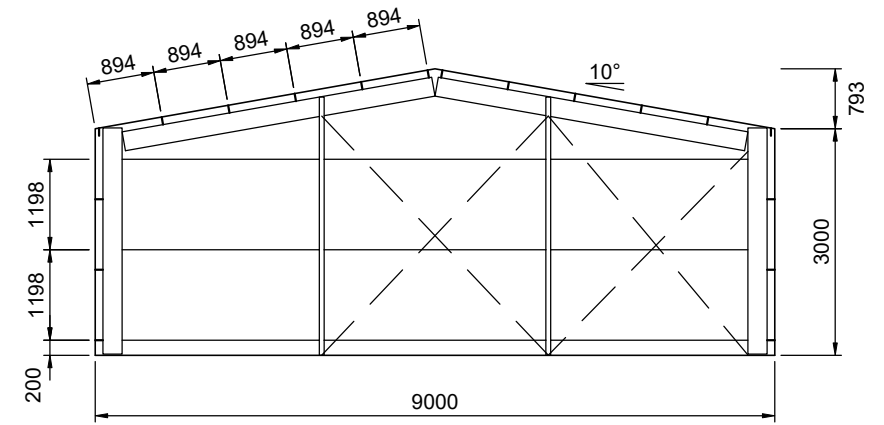
Customer Name: Shane Omara
Site Address: 1335 Greens Beach Road
Kelso,
TAS, 7270

DATE 01-07-2025
JOB NO. EALB1009371454
SHEET 2 of 10

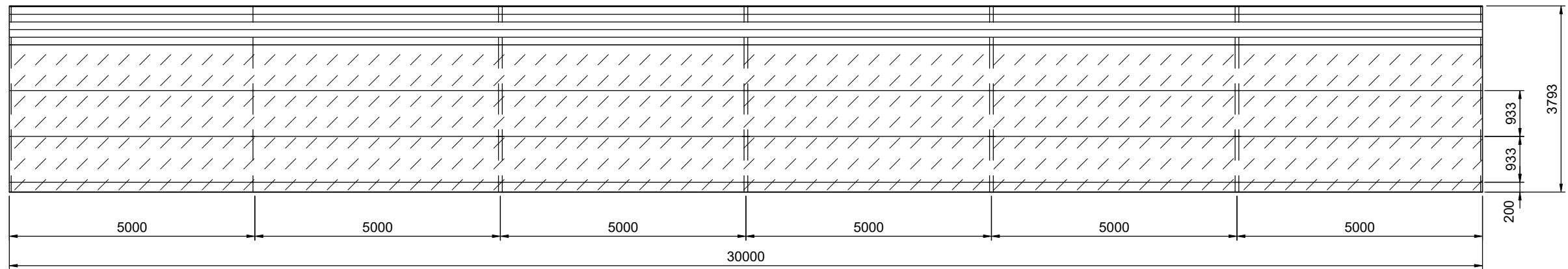


4
3 FRONT FRAMING ELEVATION
SCALE: 1:100 FRAME #1

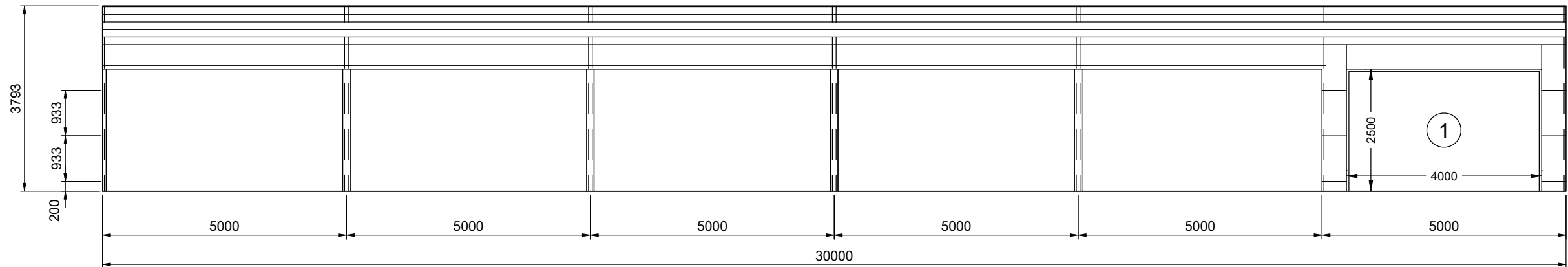
DIAPHRAGM SCHEDULE	
SHEETING IN DIAPHRAGM SECTIONS (SHOWN AS HATCHED AREA ON ELEVATIONS) NOT TO BE CUT UNDER ANY CIRCUMSTANCES	
WALL	DISTANCE FROM WALL EDGE
Sidewall 'B'	0-30000



3
3 REAR FRAMING ELEVATION
SCALE: 1:100 FRAME #7



2
3 SIDEWALL B FRAMING ELEVATION
SCALE: 1:100

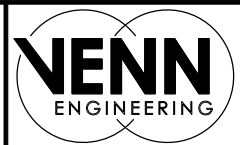


1
3 SIDEWALL A FRAMING ELEVATION
SCALE: 1:100

REV	DATE	DESCRIPTION
A	01-07-2025	-



ANOTHER
COLD FORMED BUILDING
DESIGNED BY
ACT BUILDING SYSTEMS



PO Box 3084
THIRROUL NSW 2515
sheds@venn.engineering
ABN 39 626 802 257

Signed

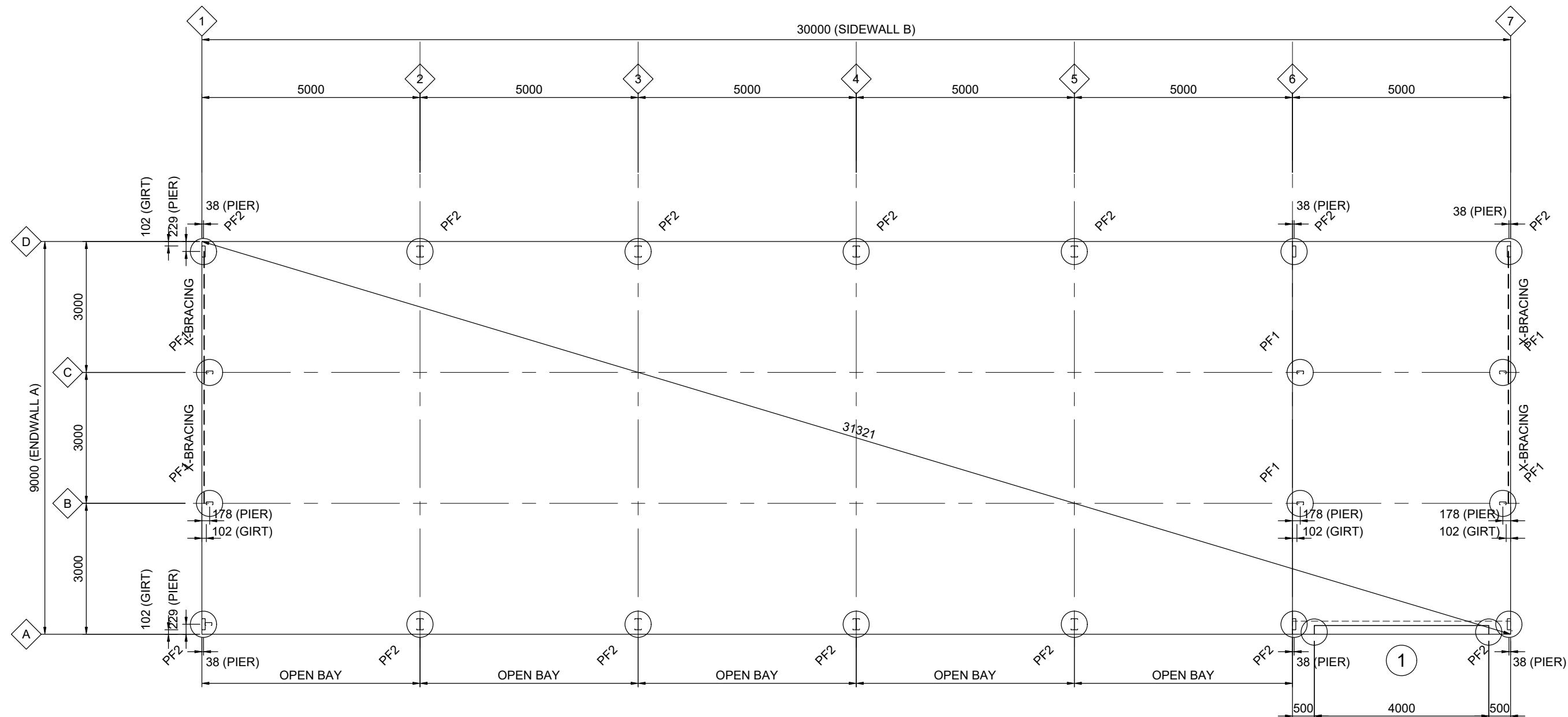
Grant J Wood

Date 01-07-2025

Grant J Wood MIEAust CPEng NER RPEQ
Registered EA Chartered Professional Engineer (No. 2383009)
Registered Professional Engineer QLD (No. 14384)
Registered Civil Engineer Building Practitioner VIC (No. PE0002499)
Registered Certifying Engineer (structural) NT (No. 306371ES)
Building Services Provider (Engineer Civil) TAS (No. 69030425)

Customer Name: Shane Omara
Site Address: 1335 Greens Beach Road
Kelso,
TAS, 7270

DATE 01-07-2025
JOB NO. EALB1009371454
SHEET 3 of 10



1
4

FOOTING/SLAB FLOOR PLAN

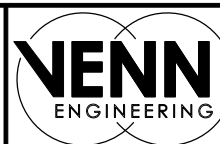
SCALE: 1:100

PF1 - 600Ø REINFORCED CONCRETE PIERS TO DETAIL
PF2 - 600Ø REINFORCED CONCRETE PIERS TO DETAIL

REV	DATE	DESCRIPTION
A	01-07-2025	-



ANOTHER
COLD FORMED BUILDING
DESIGNED BY
ACT BUILDING SYSTEMS

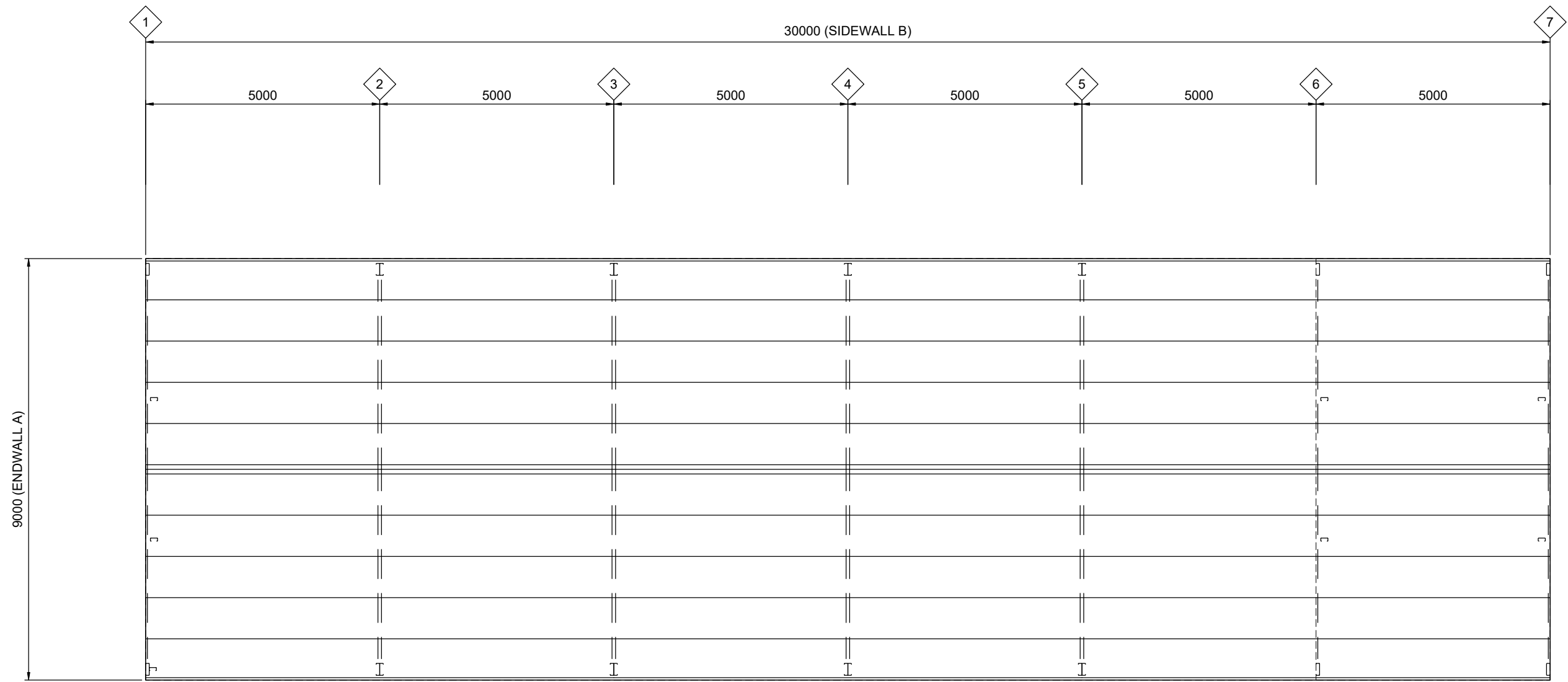


PO Box 3084
THIRROUL NSW 2515
sheds@venn.engineering
ABN 39 626 802 257

Signed Date 01-07-2025
Grant J Wood MIEAust CPEng NER RPEQ
Registered EA Chartered Professional Engineer (No. 2383009)
Registered Professional Engineer QLD (No. 14384)
Registered Civil Engineer Building Practitioner VIC (No. PE0002499)
Registered Certifying Engineer (structural) NT (No. 306371ES)
Building Services Provider (Engineer Civil) TAS (No. 69030425)

Customer Name: Shane Omara
Site Address: 1335 Greens Beach Road
Kelso,
TAS, 7270

DATE 01-07-2025
JOB NO. EALB1009371454
SHEET 4 of 10

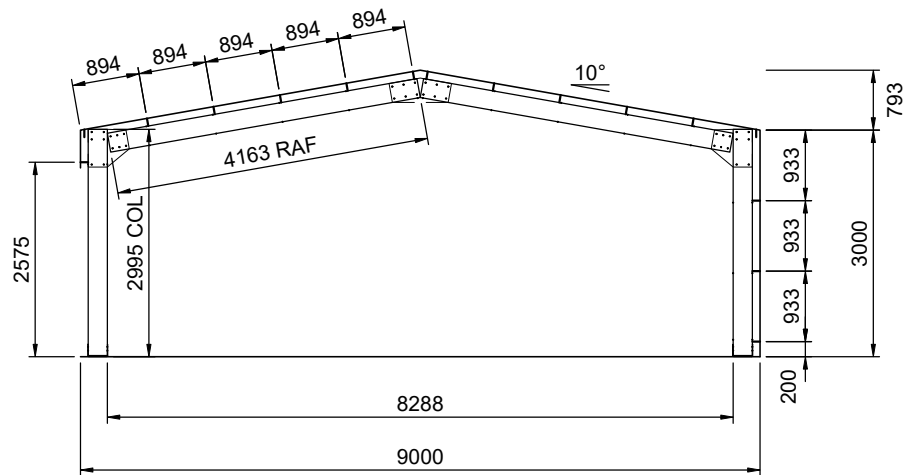


1
5

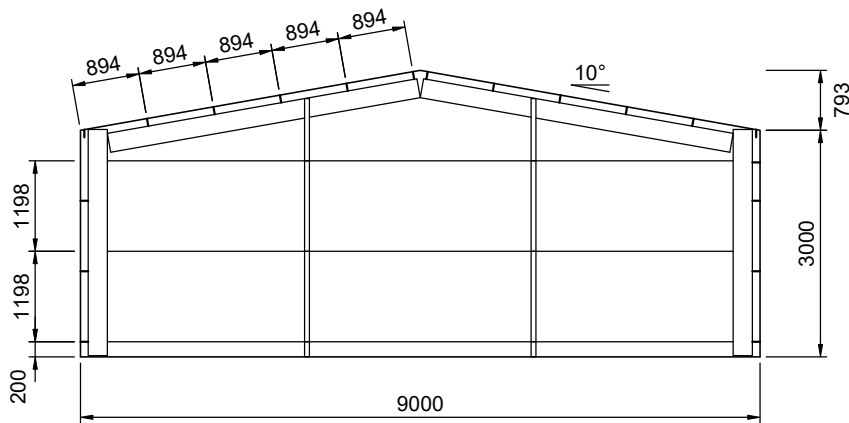
ROOF FRAMING PLAN

SCALE: 1:100

ROOF SHEETING IS USED AS DIAPHRAGM TO BRACE THE BUILDING AND IS NOT TO BE CUT UNDER ANY CIRCUMSTANCES



2 INTERNAL FRAMING ELEVATION
SCALE: 1:100 FRAMES 2-5



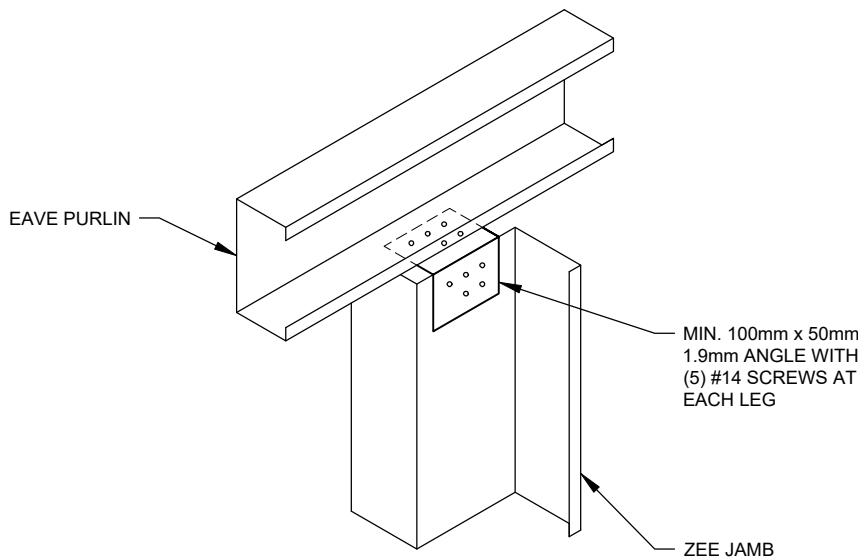
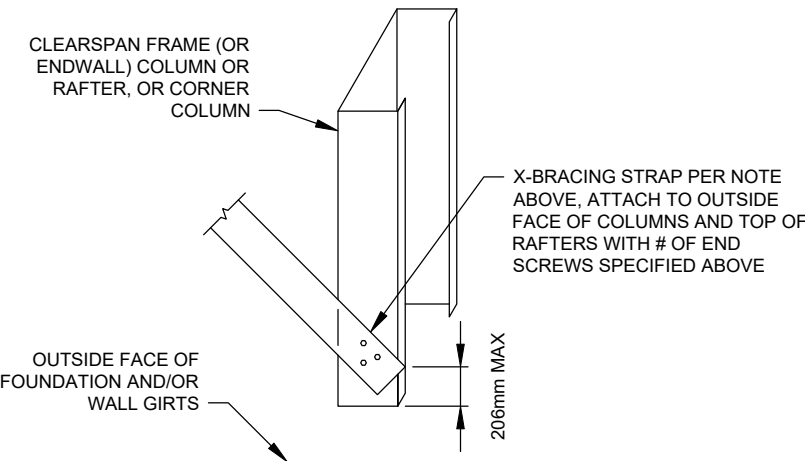
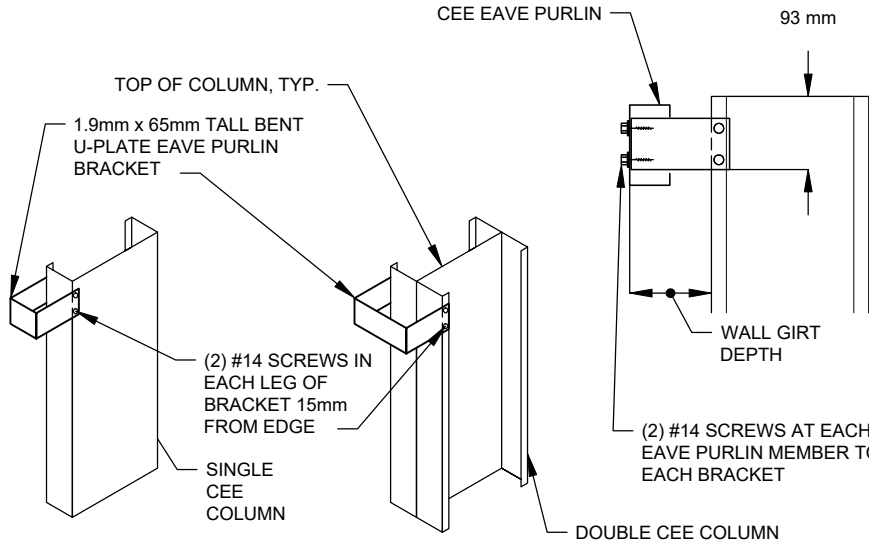
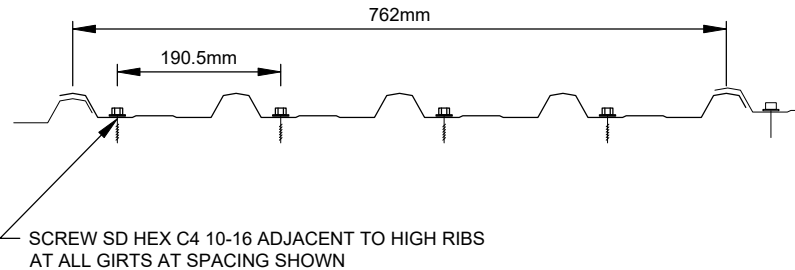
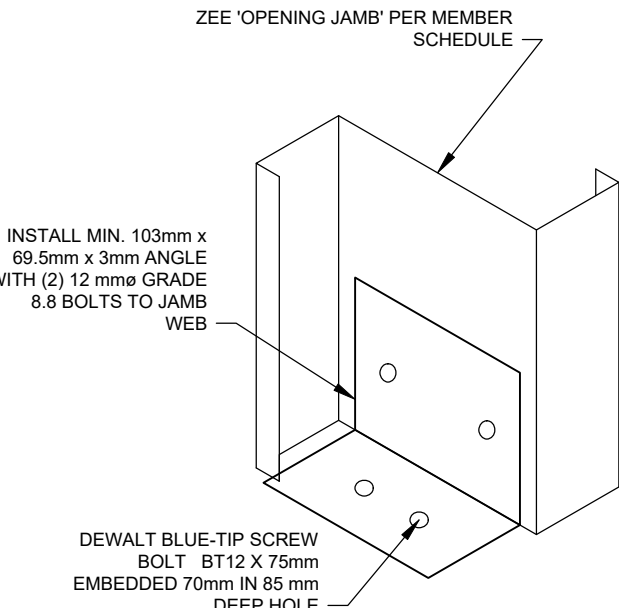
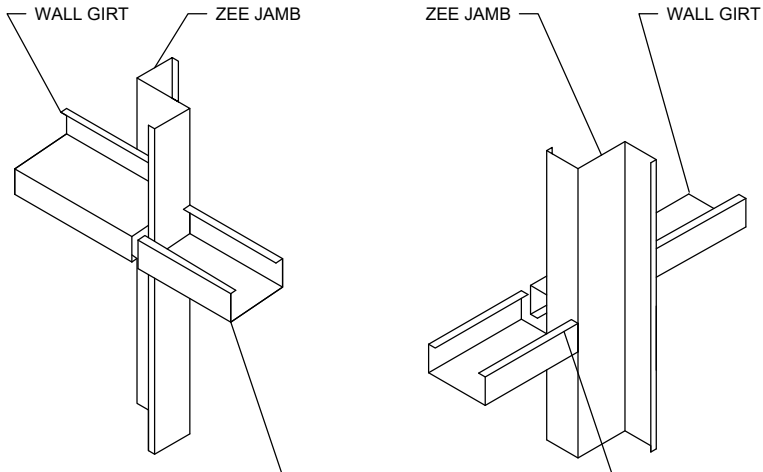
1 PARTITION WALL FRAMING ELEVATION
SCALE: 1:100 FRAME # 6

MEMBER SCHEDULE			
COMPONENT			TYPE
CLEAR SPAN PORTAL (FRAMES 2-5)	MEMBER	RAFTER	Double C25019
		COLUMN	Double C25019
		APEX BRACE	-
		KNEE BRACE	-
	BASE CONNECTION	BRACKET TYPE	Base cleat bolt down bracket BC.250
		ANCHOR BOLTS	(4) Powers Pure150-PRO M16 x 190mm
ENDWALL OR PARTITION PORTAL (FRAMES 1, 6, 7)	MEMBER	RAFTER	Single C25019
		COLUMN	Single C25019
		APEX BRACE	-
		KNEE BRACE	-
	BASE CONNECTION	BRACKET TYPE	Base cleat bolt down bracket BC.250
		ANCHOR BOLTS	(2) Powers Pure150-PRO M16 x 190mm
ENDWALL OR PARTITION MULLION	MEMBER	COLUMN	Single C15019
		BRACKET TYPE	Base cleat bolt down bracket BC.150
	BASE CONNECTION	ANCHOR BOLTS	(2) Powers PTB-G-PRO M12 x 120mm embedded 91mm
ROOF PURLINS		MEMBER	Single Z10019 @ 894mm centres
EAVE PURLIN		MEMBER	Single C10019
SIDEWALL GIRTS		MEMBER	Single Z10015 @ 933mm centres
ENDWALL GIRTS		MEMBER	Single Z10010 @ 1198mm centres
OPENING (1)	MEMBER	JAMB	Single Z15019
		HEADER/SILL	Single C10012
	BASE CONNECTION	BRACKET TYPE	Angle base connection ABC.C150.60
		ANCHOR BOLTS	(2) Dewalt Blue-tip screw bolt BT12 x 75mm embedded 70mm
SIDEWALL X-BRACING	STRAP		-
ENDWALL X-BRACING	STRAP		30mm x 1.0 strap

o INDICATES 12 mmø GRADE 8.8 BOLT		
D ZEE PURLIN/GIRT CONNECTION	E GIRTS IN-LINE CORNER COLUMN CONNECTIONS	F1 CORNER COLUMN BASE DETAIL
o INDICATES 16 mmø GRADE 8.8 BOLT NOTE: ALL DOUBLE COMPONENTS SHALL BE SINGLE AT ENDWALLS.	NOTE: ALL DOUBLE COMPONENTS SHALL BE SINGLE AT ENDWALLS.	
A HAUNCH CONNECTION	B APEX CONNECTION	C ENDWALL MULLION TO RAFTER

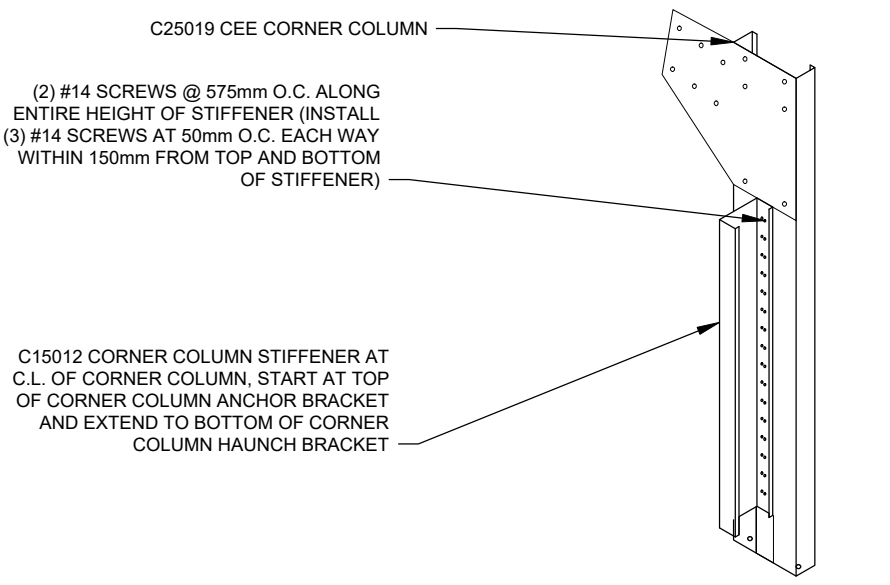
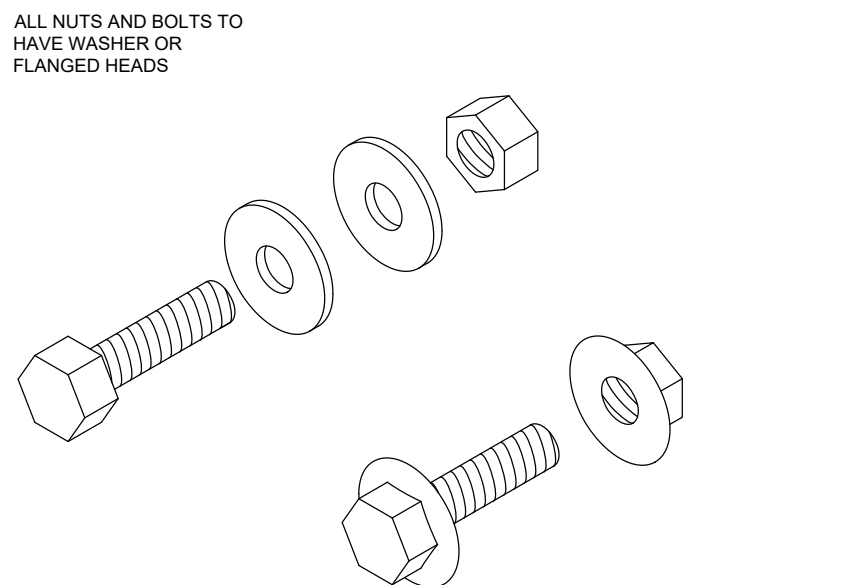
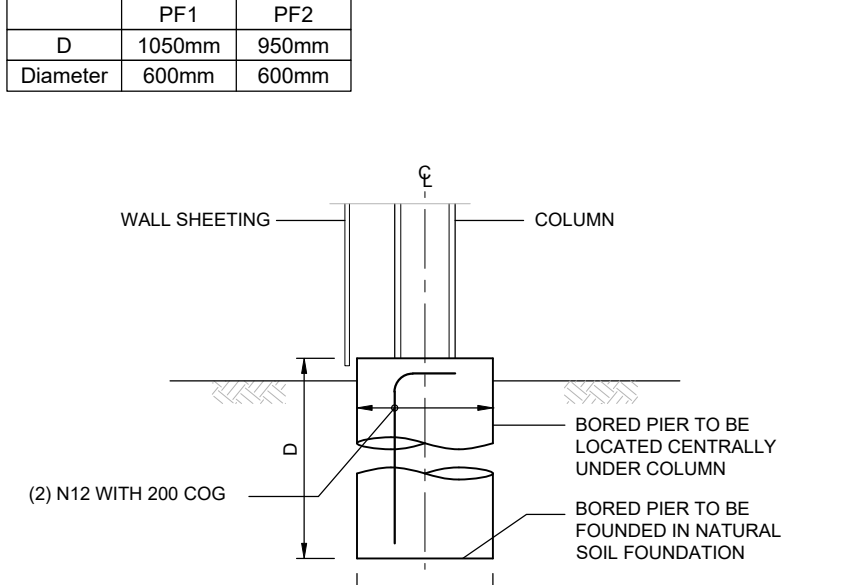
DETAIL DIMENSIONS ARE SHOWN IN MM UNLESS SPECIFIED OTHERWISE

REV	DATE	DESCRIPTION	COLD FORMED BUILDINGS  ANOTHER COLD FORMED BUILDING DESIGNED BY ACT BUILDING SYSTEMS	VENN ENGINEERING PO Box 3084 THIRROUL NSW 2515 sheds@venn.engineering ABN 39 626 802 257 Signed  Date 01-07-2025 Grant J Wood MIEAust CPeng NER RPEQ Registered EA Chartered Professional Engineer (No. 2383009) Registered Professional Engineer QLD (No. 14384) Registered Civil Engineer Building Practitioner VIC (No. PE0002499) Registered Certifying Engineer (structural) NT (No. 306371ES) Building Services Provider (Engineer Civil) TAS (No. 69030425)	Customer Name: Shane Omara Site Address: 1335 Greens Beach Road Kelso, TAS, 7270	DATE	01-07-2025
A	01-07-2025	-				JOB NO.	EALB1009371454
						SHEET	7 of 10

 INTERIOR VIEW	ENDWALLS: SGL. 30MM 1MM STRAP WITH (3) #14 SCREWS AT EACH END  NOTES: 1) CONNECT STRAP AT TOP OF ADJACENT COLUMN OR RAFTER IN SAME MANNER. 2) IF DOUBLE STRAPS ARE SPECIFIED ABOVE, INSTALL SIDE-BY-SIDE, NOT ON TOP OF EACH OTHER.	
L ZEE JAMB TO EAVE PURLIN CONNECTION	M ROOF AND WALL X-BRACING CONNECTION	O EAVE PURLIN BRACKET
NOTE: ONLY STRUCTURAL INFORMATION IS INCLUDED IN THIS DETAIL. CONSULT PANEL MANUFACTURER FOR ADDT'L WEATHERTIGHTNESS RECOMMENDATIONS.  Stramit Monoclad 0.42		 EXTERIOR VIEW INTERIOR VIEW
I WALL SHEETING	J ROLLER DOOR JAMB BASE CONNECTION	K OPENING ZEE JAMB GIRT CONNECTION

DETAIL DIMENSIONS ARE SHOWN IN MM UNLESS SPECIFIED OTHERWISE

REV	DATE	DESCRIPTION	COLD FORMED BUILDINGS  ANOTHER COLD FORMED BUILDING DESIGNED BY ACT BUILDING SYSTEMS  PO Box 3084 THIRROUL NSW 2515 sheds@venn.engineering ABN 39 626 802 257 Signed  Date 01-07-2025 Grant J Wood MIEAust CPeng NER RPEQ Registered EA Chartered Professional Engineer (No. 2383009) Registered Professional Engineer QLD (No. 14384) Registered Civil Engineer Building Practitioner VIC (No. PE0002499) Registered Certifying Engineer (structural) NT (No. 306371ES) Building Services Provider (Engineer Civil) TAS (No. 69030425)	Customer Name: Shane Omara Site Address: 1335 Greens Beach Road Kelso, TAS, 7270	DATE 01-07-2025
A	01-07-2025	JOB NO. EALB1009371454			
		SHEET 9 of 10			

C25019 CEE CORNER COLUMN (2) #14 SCREWS @ 575mm O.C. ALONG ENTIRE HEIGHT OF STIFFENER (INSTALL (3) #14 SCREWS AT 50mm O.C. EACH WAY WITHIN 150mm FROM TOP AND BOTTOM OF STIFFENER) C15012 CORNER COLUMN STIFFENER AT C.L. OF CORNER COLUMN, START AT TOP OF CORNER COLUMN ANCHOR BRACKET AND EXTEND TO BOTTOM OF CORNER COLUMN HAUNCH BRACKET 		ALL NUTS AND BOLTS TO HAVE WASHER OR FLANGED HEADS 		<table><tr><td></td><td>PF1</td><td>PF2</td></tr><tr><td>D</td><td>1050mm</td><td>950mm</td></tr><tr><td>Diameter</td><td>600mm</td><td>600mm</td></tr></table>			PF1	PF2	D	1050mm	950mm	Diameter	600mm	600mm
	PF1	PF2												
D	1050mm	950mm												
Diameter	600mm	600mm												
P	CORNER COLUMN STIFFENER	U	BOLT OPTIONS	Y	PIER DETAIL									

DETAIL DIMENSIONS ARE SHOWN IN MM UNLESS SPECIFIED OTHERWISE

REV	DATE	DESCRIPTION	COLD FORMED BUILDINGS  ANOTHER COLD FORMED BUILDING DESIGNED BY ACT BUILDING SYSTEMS	VENN ENGINEERING PO Box 3084 THIRROUL NSW 2515 sheds@venn.engineering ABN 39 626 802 257	Signed  Date 01-07-2025 Grant J Wood MIEAust CPEng NER RPEQ Registered EA Chartered Professional Engineer (No. 2383009) Registered Professional Engineer QLD (No. 14384) Registered Civil Engineer Building Practitioner VIC (No. PE0002499) Registered Certifying Engineer (structural) NT (No. 306371ES) Building Services Provider (Engineer Civil) TAS (No. 69030425)	Customer Name: Shane Omara Site Address: 1335 Greens Beach Road Kelso, TAS, 7270	DATE 01-07-2025 JOB NO. EALB1009371454 SHEET 10 of 10
A	01-07-2025	-					

Generic Temporary Bracing Information

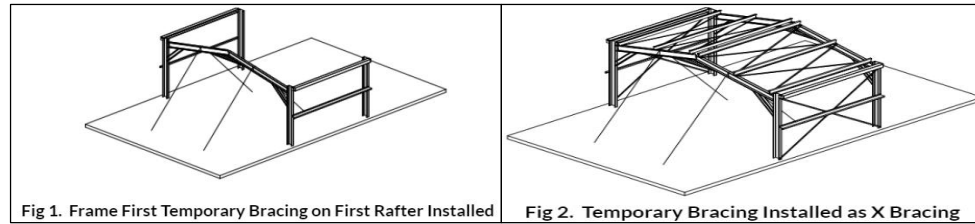
The installation of temporary bracing is critical to avoid building collapse or damaging structural movement during construction. This collapse can occur with no notice and as such the installation of appropriate temporary bracing is critical to avoid damage, injury, and possible death. Determination, procurement, and correct installation of temporary bracing is the responsibility of the builder / primary contractor / installer.

Bracing Materials

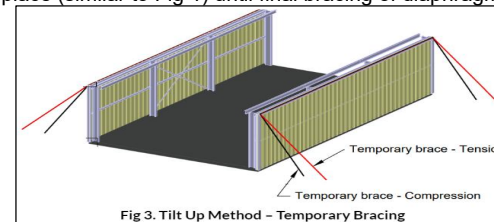
The constructor / installer is to supply suitably sized materials for temporary bracing. These materials are generally capable of tension, but in some circumstances will need to be capable of tension and compression. Load rated ratchet strapping of an appropriate size can be used to temporarily 'x-brace' bays in both directions, until the final bracing systems are fully installed. This is especially critical for buildings where X Bracing is not required in the final structure due to the use of moment frames or diaphragm bracing.

Temporary Bracing Location

The location of Temporary bracing will depend on the installation method used. Installation should be completed in accordance with the Construction Package, Engineering Plans, and Instruction Manuals. If the Frame First Method (most common) is used, then the use of tension only bracing and creating temporarily braced bays as per Fig 1 and Fig 2. can be used. As a basic guide, a minimum of every 4th bay should have temporary bracing installed as per Fig 2.



If the Tilt Up Method Is used (where walls are constructed on the ground And then tilted into place), then the tops of columns are braced with a tension and compression brace in the same direction Fig 3. Then rafters and purlins can be installed with temporary bracing holding rafters in place (similar to Fig 1) until final bracing of diaphragm sheeting is installed.



Typically, braces should be positioned diagonally across the structure from the top to the bottom, intersecting near the midpoint to provide stability, optimally at a 45-degree angle but no less than a 20-degree angle. The connection strength of temporary bracing is a critical consideration and these connections must be capable of resisting the potentially substantial temporary bracing loads – whether this connection point be to the building, the foundations or to the ground. Dependent upon building size this may include heavy angles and post installed concrete anchors. The temporary bracing methods used must be capable of fully stabilising the structure during the construction process.

Additional Temporary Bracing

The temporary bracing described is a minimum requirement for a standard-sized building in average conditions. Additional consideration should be given to larger building spans and/or challenging site conditions. There may also be an increased risk in relation to partially completed buildings and exposed sites. It is recommended that extra temporary bracing is utilized if moderate wind speeds are expected on site. Additional support elements, such as steel cables may need to be introduced that can be attached to the building's framework and anchored to the ground or other stable structures to provide extra stability. The frame should remain rigid throughout and such responsibility lies with the constructor. Buildings should not be left in a partially completed state longer than necessary.

Bracing Removal

The temporary bracing should not be removed until all purlins, girts and permanent cross bracing, diaphragm bracing or moment frames where used are installed. The temporary bracing is to remain in place where possible, until the roof and wall cladding is fully installed. If you need any further information regarding the installation of temporary bracing or are at all unsure of the necessary requirements for this specific building, there are guides available through various industry bodies:

<https://www.safeworkaustralia.gov.au/> 'Construction work – steel erection. Information sheet', 2016.

<https://www.steel.org.au/> 'Structural steelwork fabrication and erection code of practice', 2014.

<https://www.standards.org.au/> AS/NZS 5131:2016 'Structural steelwork – Fabrication and erection.

Support is also available at support@actbuildingsystems.com.

THE ABOVE INFORMATION REGARDING TEMPORARY BRACING DOES NOT FORM PART OF THE ENGINEERING CERTIFICATION FOR THIS DESIGN AND IS PROVIDED AS A GUIDE TO AID INSTALLATION ONLY.