

Our Ref – Job Number 1832092004

13/03/2026

**RE: Structural Certification of Single-Story Lightweight Structure Class 10a.**

**For: Ross Schalk**

**Location: 23 East Street, Uralia NSW 2358**

To whom it may concern

The purpose of this letter is to provide structural certification over the aspects of the buildings mentioned above, namely the drawings referenced in this certification are

- Structural Drawings, ref Job Number 1832092004 dated 13/03/2026

I have relied on the following reference documents

- AS 1170.0 General Principals (2002)
- AS 1170.1 Permanent & Other Actions (2002)
- AS1170.2 AS1170.2- (2021)
- AS 1170.3 Ice and Snow Actions (2021)
- AS 1170.4 Earthquake Loads (2007)
- AS 3600 Concrete Structures (2018)
- AS 4100 Steel Structures Code (2021)
- AS 4600 Cold Formed Section Code (2018)
- AS 2870 Residential Slab and Footing (2011)
- National Construction 2022

Yours faithfully,



**Camilo Pineda Moreno**  
**Beng MIEAust RPeng, RPEQ.**  
**BPB: 2769 (NSW)**

# ENGINEERING SCHEDULE

CERTIFIED STEEL PORTAL FRAME SHED DESIGN IN ACCORDANCE WITH NCC 2022 FOR SITE WIND SPEED "37.3m/s", WIND

REGION "A3", TERRAIN CATEGORY "3", IMPORTANCE LEVEL "2"

Internal Pressure: 0.5

Design Snow Load: 1.20 KPa, Roof Snow Load: 1.20 KPa

Customer: Ross Schalk

Site Address: 23 East Street, Uralia NSW 2358

Main Building: Span: 11.3, Length: 10, Height: 3.9, Roof Pitch: 11 degrees

The length being comprised of 2 bays, the largest bay is 5m bays.

Left Leanto: NA

Right Leanto: NA

Total Kit Weight: 3853.01kg

INTERNAL PORTALS	
Column:	C25024
Rafter:	2C25024
Knee Brace:	2C15024
Knee Brace Length:	2900
Apex Brace:	2C15024
Apex Brace Length:	5800

END PORTALS	
Column:	C25024
Rafter:	C25024
Knee Brace:	NA
Knee Brace Length:	NA
Apex Brace:	NA
Apex Brace Length:	NA
Endwall Mullion:	C25024

LEFT LEAN TO PORTALS	
Internal Column:	NA
Internal Rafter:	NA
End Column:	NA
End Rafter:	NA
Knee Brace:	NA
Knee Brace Length:	NA

RIGHT LEAN TO PORTALS	
Internal Column:	NA
Internal Rafter:	NA
End Column:	NA
End Rafter:	NA
Knee Brace:	NA
Knee Brace Length:	NA

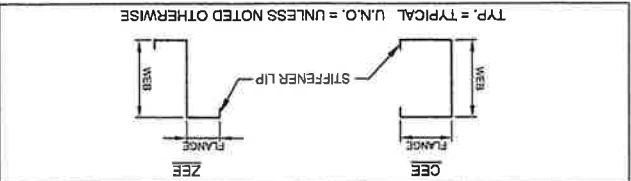
NOTE: All unclad intermediate columns are always back to back (refer to drawing: Floor Plan).

PURLINS AND GIRTS	
Eave Purlin:	TH120100
Side Wall Girts:	TH120100
Max Spacing:	1100
Overlap:	10%
Front End Wall Girts:	TH120100
Max Spacing:	1100
Overlap:	10%
Back End Wall Girts:	TH120100
Max Spacing:	1000
Overlap:	10%
Roof Purlins:	TH120100
Max Spacing:	1000
Overlap:	10%

NOTE: Girt spacing will vary to a maximum 1.1m where windows are located.

FASTENERS	
Sleeve Anchor Bolts:	M16x105 Sleeve Anchor
Frame Bolts:	M16x45 Purlin Assembly Zinc (Mild)
Frame Screws:	Frame Screw 14x14x22
Cross Bracing Strap:	32mm x 1.2 strap
Open Bay Header Height:	NA

COLOUR SCHEDULE	
Roof Sheets:	Colour
External Wall Sheets:	Colour
Roller Doors:	Colour
Flashing:	Colour
PA Doors:	Colour
Windows:	Colour



COMPONENT DIAGRAM

TYP. = TYPICAL U.N.O. = UNLESS NOTED OTHERWISE

SNOW LOAD  
Following conditions only apply to buildings with snow loading:  
No maintenance or roof traffic permitted on the roof while there is snow present.  
No other structure to be erected within 500mm of the gutters of this building.

GENERAL  
The designs as portrayed on the drawings remain the intellectual property of Best Sheds Pty Ltd and are provided for building approval and construction purposes only.

Occupational Health and Safety Regulations and with plans provided.

CONSTRUCTION  
Erection of the structure is to be in compliance with local and state ordinances.

For sites where these conditions are considered to be inadequate, a customized foundation design for the structure can be supplied to suit a specific purpose.

25mm deep concrete saw cut, to be made into the surface of the concrete slab every 6m in width or length as crack control joints. 80mm for light pneumatic tyred traffic all vehicable floors.

Concrete pad footings and slab supply and placement is to be in compliance with AS2870-2011 Residential Slabs & Footings. AS3600-2018 Concrete Structures for A2 and B2 exposure (i.e. 25mPa strength @ 28 days strength) with recommended slump 75

Where (suitable) fill is required to level the site, it should be placed and compacted in layers of 150mm maximum.

The class 10a buildings are designed for erection on pad footings or slab based on soil or classification "A", "P" with minimum bearing capacity 100kPa (i.e. organic soil is to be removed to a suitable material below natural surface).

ENGINEERING  
The undersigning engineer has checked that the design of the structure complies with relevant current Australian Standards as stated above and the following: AS4671-2001 Steel Reinforcing materials, AS3600 - Concrete structures. However, he will not be present during construction, neither will he conduct inspections nor construction supervision.

All rainwater products are compliant with AS2179.1 (Metal).

Secondary framing steel bracing, with purlins and girts lapped, are all tek fastened to primary steel with a minimum of two (2) teks per connection as specified in details.

Primary framing is fastened together with 4.6 Class galvanized bolts adequately tensioned on ground prior to erection.

The structures are clad with corrugated pre-painted finish, 0.42mm walls and 0.42mm roof (compliant with AS1562.1 Metal) over cold formed 450 to 550mPa galvanized steel C sections primary frames.

0.25kPa as "Air Leaky Structures" providing stability when openings are prevalent.

DOMESTIC & LIGHT INDUSTRIAL STEEL PORTAL FRAME SHED STRUCTURES  
This structure is designed in compliance with AS4600, AS3600 and AS1170 1 to 4 as Importance Level 2 with a Live Load of

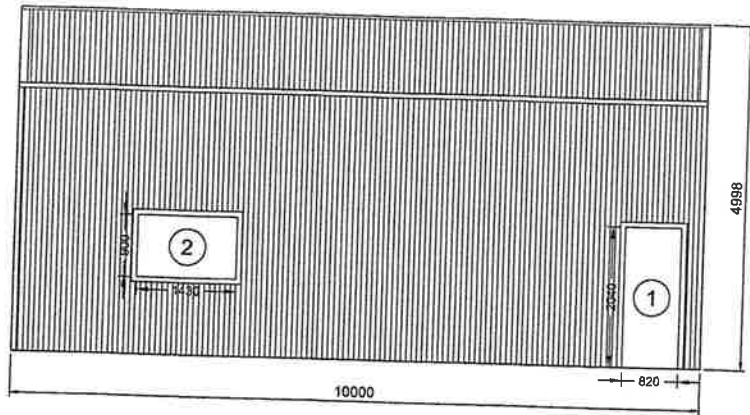
151 Smeaton Grange Road,  
Smeaton Grange, NSW, 2567  
Phone: 02 4648 7777  
Fax: 02 4648 7700  
Email: sales@bestsheds.com.au



CIVIL & STRUCTURAL ENGINEERS  
COMMERCIAL - INDUSTRIAL - RESIDENTIAL - FORENSIC - STEEL DETAILING  
CAMILLO PINEDA MORENO  
Signature: \_\_\_\_\_  
Date: 13.03.2026

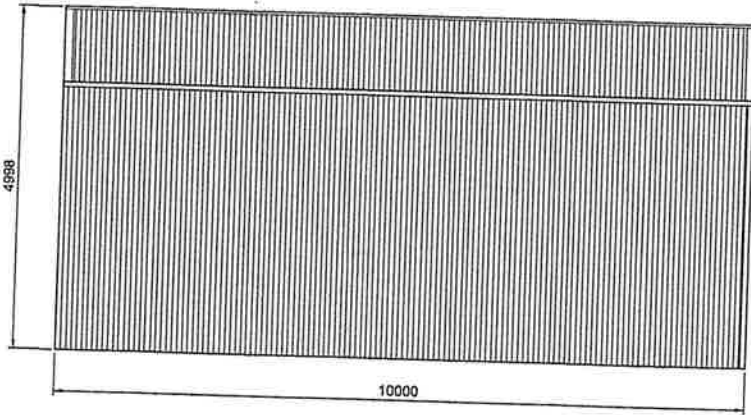
Customer Name: Ross Schalk  
Site Address: 23 East Street,  
Uralia,  
NSW, 2358

DATE 13-03-2026  
JOB NO. 1832092004  
SHEET 1 of 7



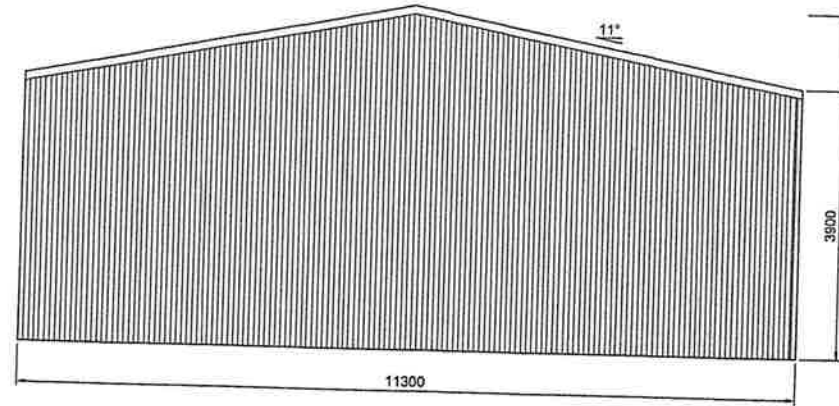
**2 LEFT ELEVATION**

SCALE: 1:75



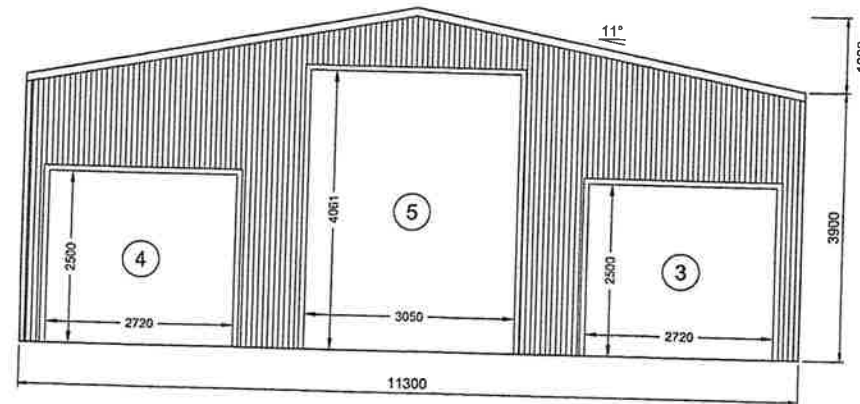
**1 RIGHT ELEVATION**

SCALE: 1:75



**3 REAR ELEVATION**

SCALE: 1:75



**4 FRONT ELEVATION**

SCALE: 1:75



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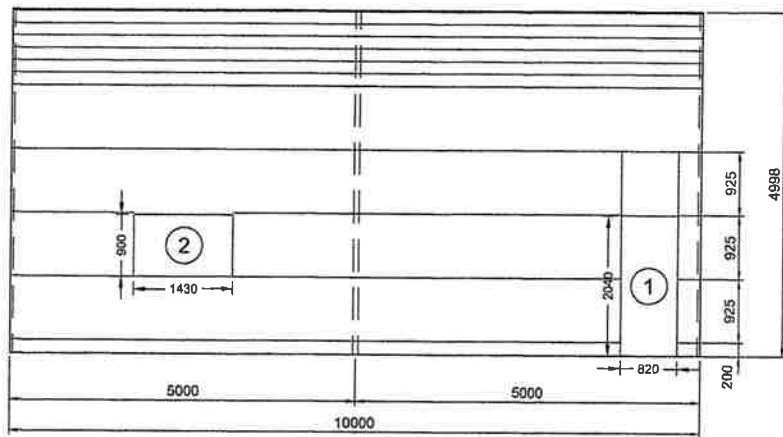
**CIVIL & STRUCTURAL ENGINEERS**  
COMMERCIAL - INDUSTRIAL - RESIDENTIAL - FORENSIC - STEEL DETAILING  
**CAMILO PINEDA MORENO**  
BEng MEng Aust RP/Eng  
ASPEC 15962 TRIP P/1 063976 (VIC)

Signature:

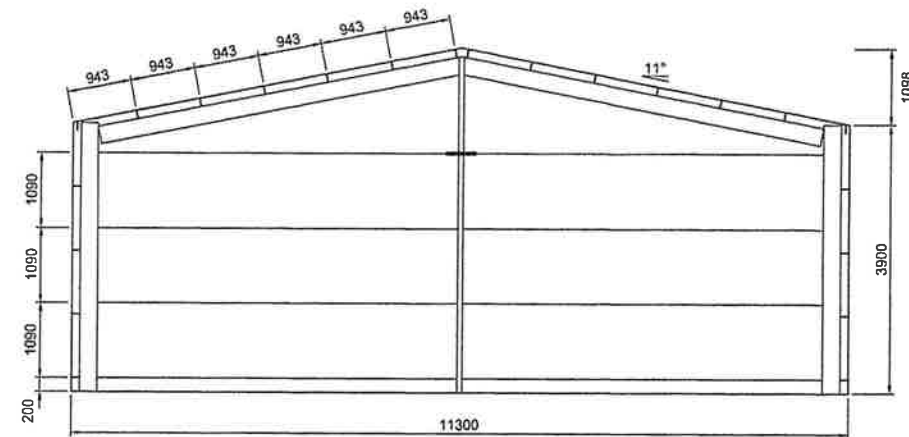
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Site Address: 23 East Street  
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NSW, 2358

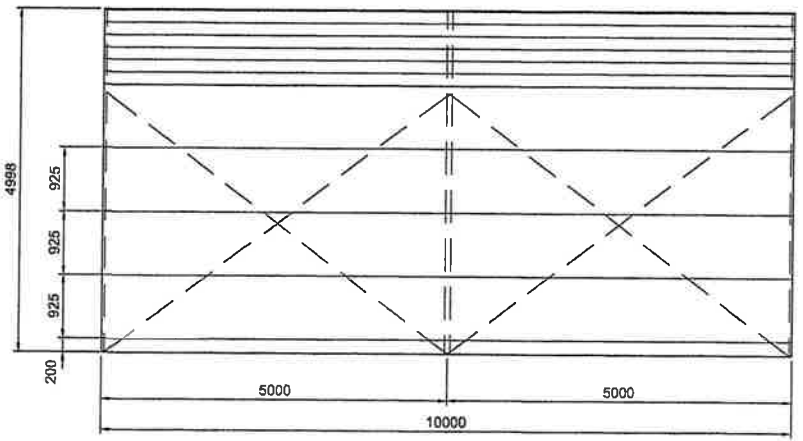
DATE 13-03-2026  
JOB NO. 1832092004  
SHEET 2 of 7



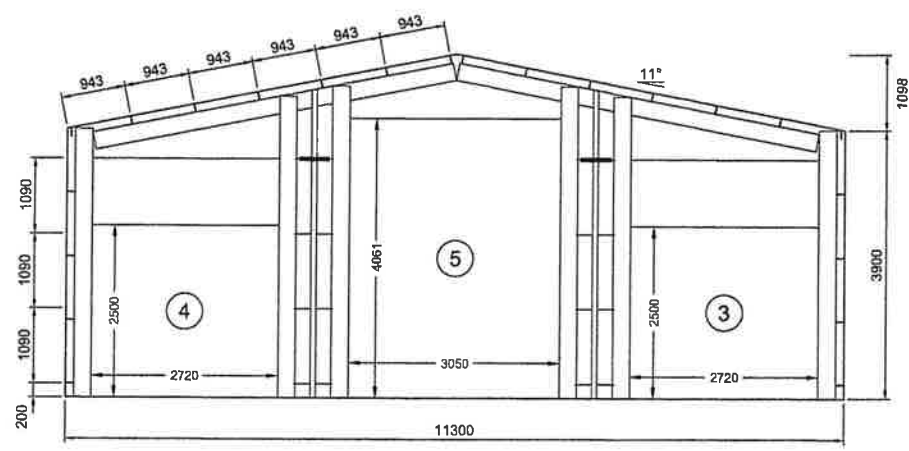
**2** LEFT ELEVATION  
**3** SCALE: 1:75



**3** REAR ELEVATION  
**3** SCALE: 1:75  
 FRAME #3



**1** RIGHT ELEVATION  
**3** SCALE: 1:75



**4** FRONT ELEVATION  
**3** SCALE: 1:75  
 FRAME #1

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**EMERALD**  
 DESIGN & CONSTRUCTION

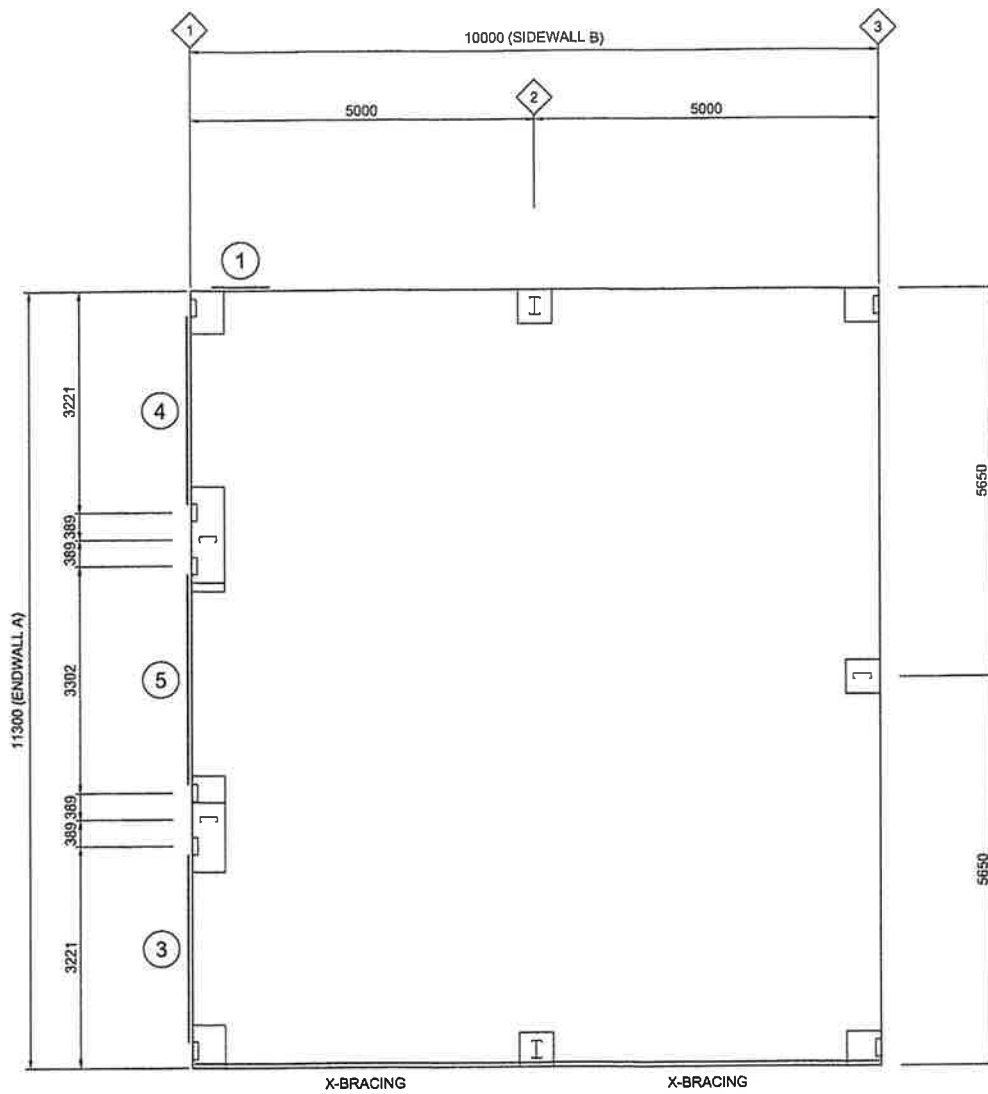
**CIVIL & STRUCTURAL ENGINEERS**  
 COMMERCIAL - INDUSTRIAL - RESIDENTIAL - FORENSIC - STEEL DETAILING

**CAMILO PINEDA MORENO**  
 Grad MBE(Aust) RPEng  
 RPEng 13562 TBP PE000976 (VIC)

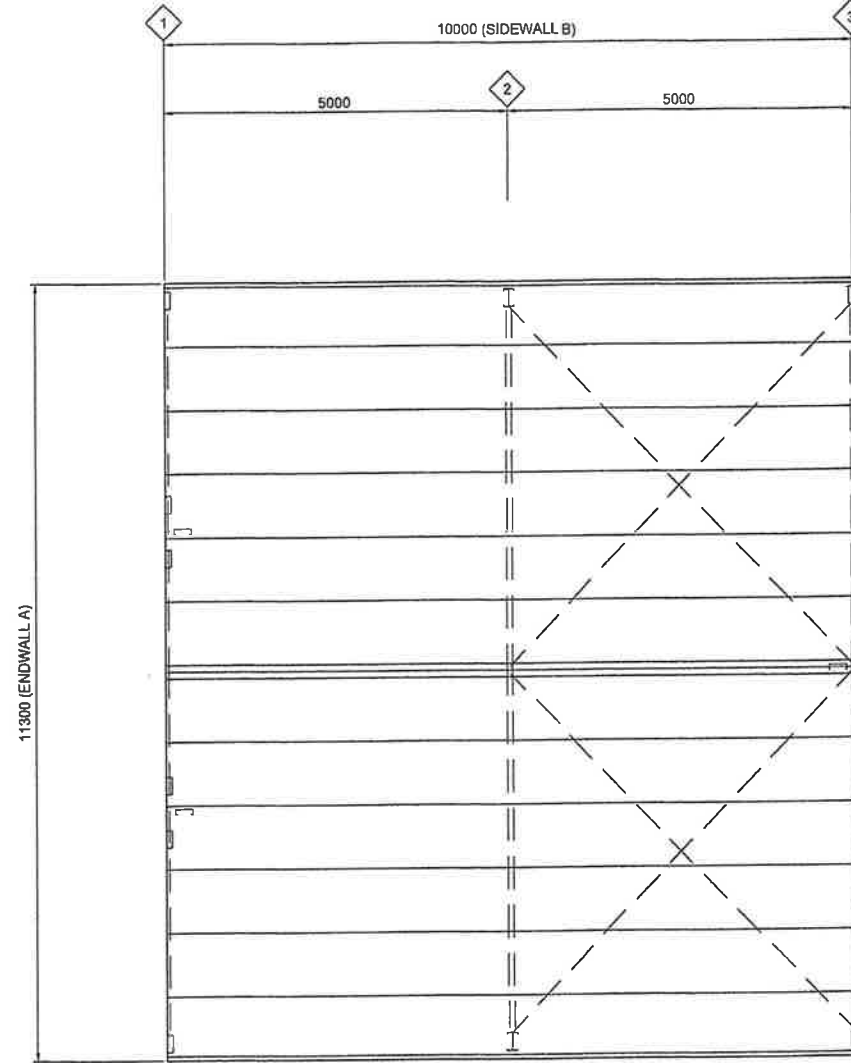
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DATE 13-03-2026  
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 SHEET 3 of 7



1 FLOOR PLAN  
4 SCALE: 1:75

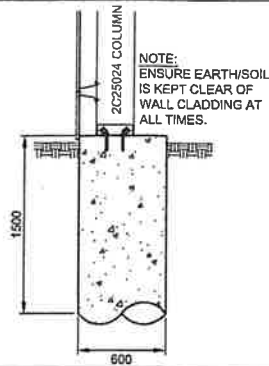
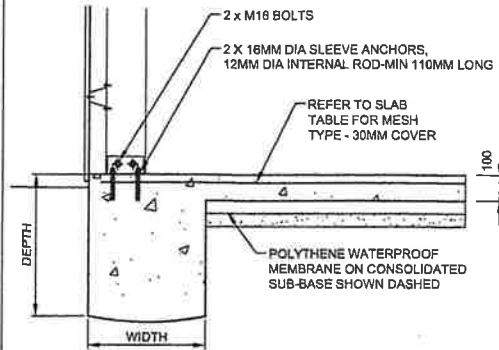


2 ROOF FRAMING PLAN  
4 SCALE: 1:75

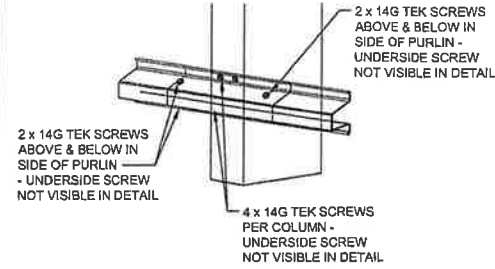
SLAB FOUNDATIONS DOMESTIC / LIGHT INDUSTRIAL (100mm MINIMUM CONCRETE SLAB INCLUDED)					
SOIL CLASSIFICATION (COMPACTED)	REINFORCING IN SLAB	EDGE BEAM	PIER	EDGE BEAM (slab thickness not included)	
	MESH REINFORCING	TRENCH MESH	Ø x DEPTH	DEPTH	WIDTH
A, S, & M	SL72	---	450 x 400	---	---
M - D	SL82	L11TM3	---	300	300
H TO H - D	SL82	L11TM3	---	400	300
E TO E - D	SL82	L11TM4	---	400	400
P (DROP EDGE BEAM OR STANDARD EDGE BEAM WITH PIERS UNDER COLUMNS 300 INTO FIRM GROUND)	SL82	L11TM4	450Ø	400	400

THICKNESS: 100MM WITH MINIMUM 30MM COVER. REFER TO SLAB FOUNDATION TABLE FOR REINFORCING SPECIFICATION

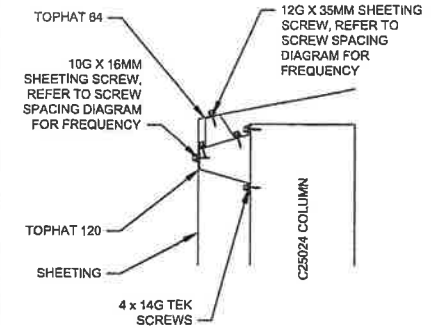
STRENGTH: 25mPa



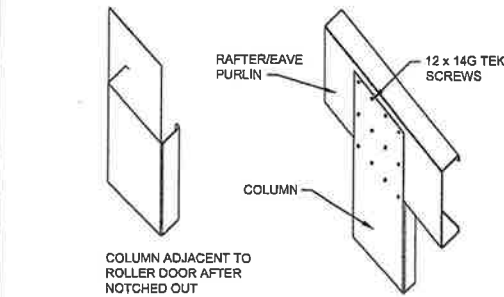
**Z** ALTERNATE PIER DETAIL



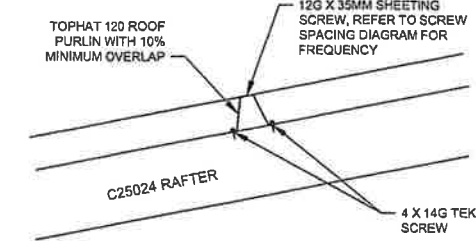
**G** TOP HAT CONNECTION



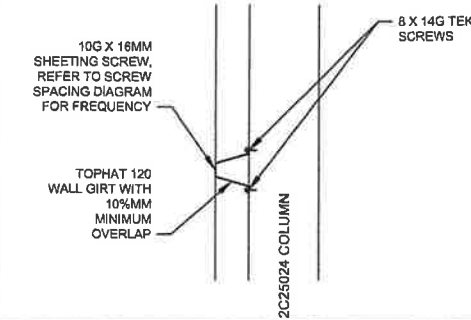
**H** EAVE CONNECTION



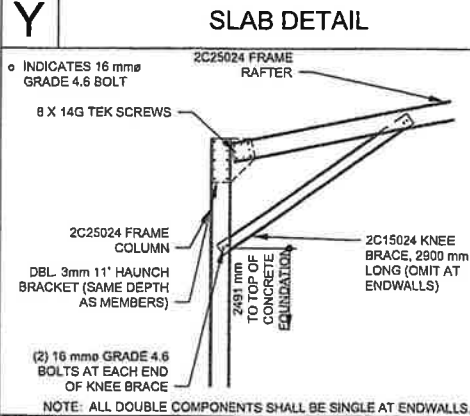
**D** ENDWALL MULLION ROTATED



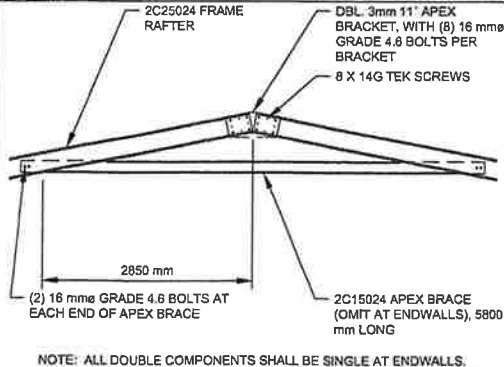
**E** PURLIN CONNECTION



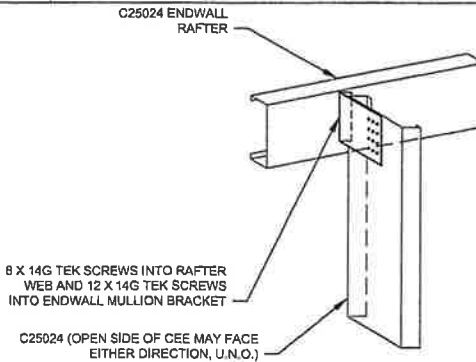
**F** GIRTS CONNECTION



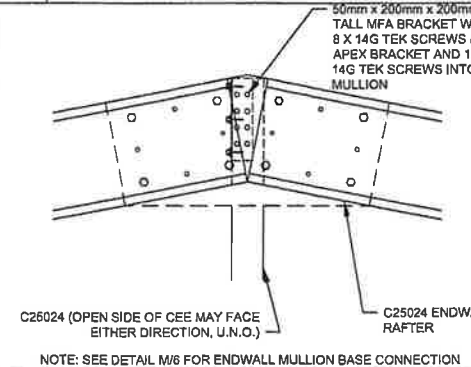
**A** HAUNCH CONNECTION



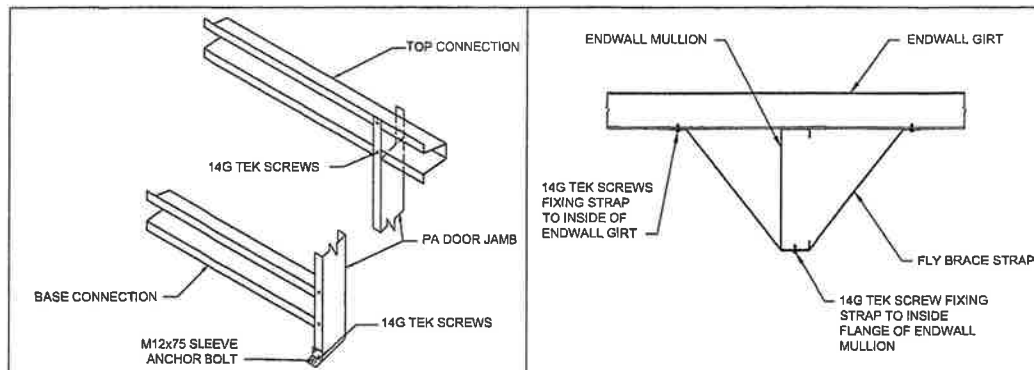
**B** APEX CONNECTION



**C1** ENDWALL MULLION TO RAFTER

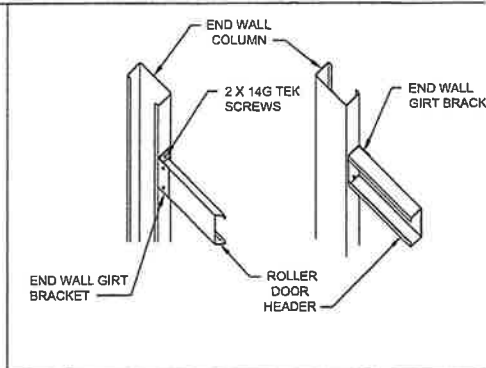
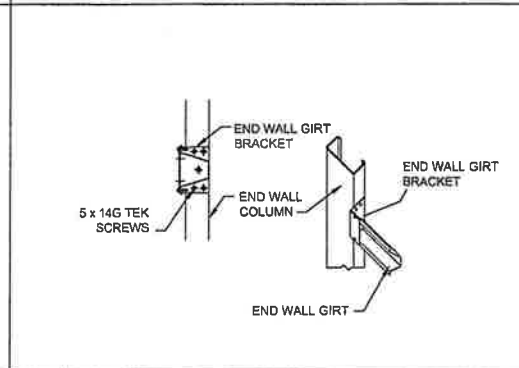
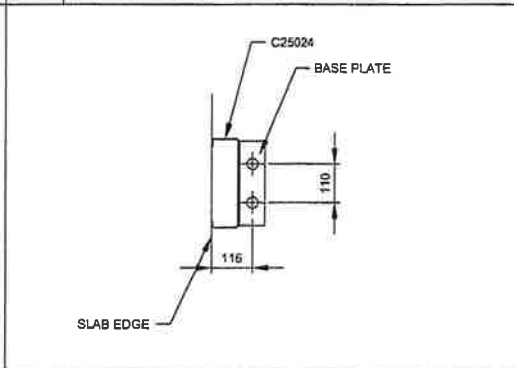
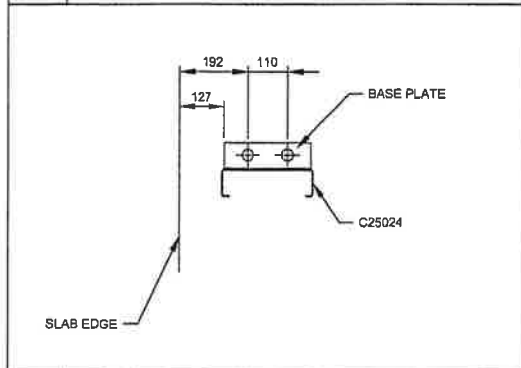


**C3** ENDWALL MULLION TO RAFTER PEAK CONDITION



**Q PA DOOR STYLE CONNECTION**

**R FLYBRACE**

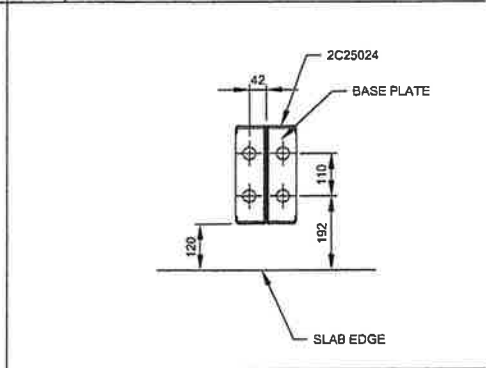
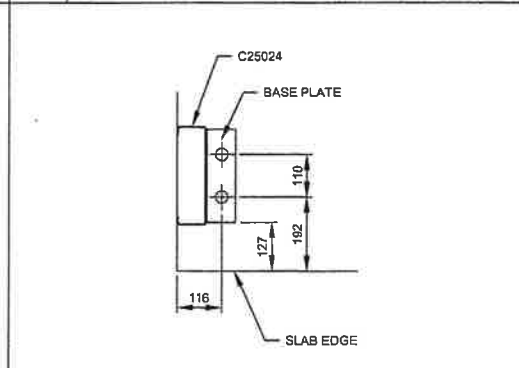
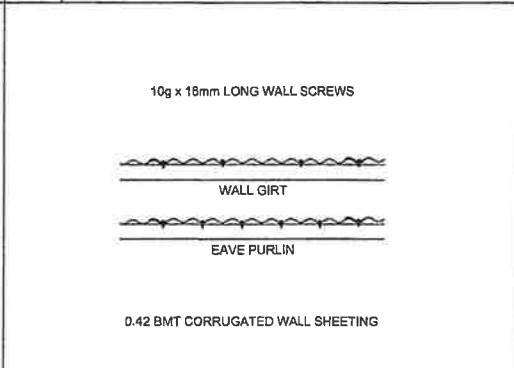
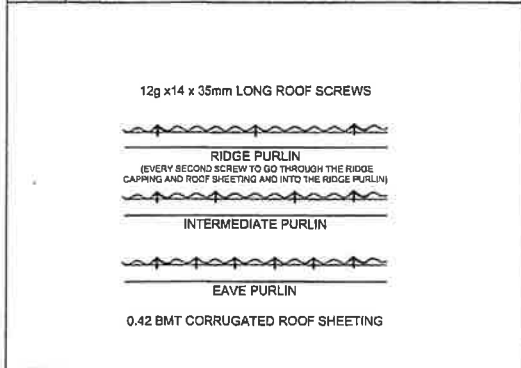


**M ENDWALL MULLION BASE**

**N ROTATED ENDWALL MULLION BASE**

**O ENDWALL GIRT BRACKET**

**P END DOOR HEADER AND JAMB**

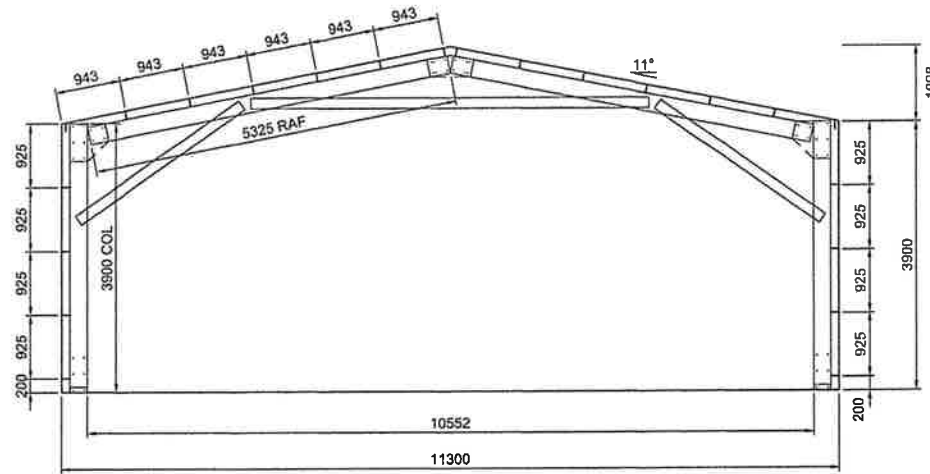


**I ROOF SHEETING**

**J WALL SHEETING**

**K CORNER COLUMN BASE**

**L INTERNAL COLUMN BASE**



1 TYP. FRAME CROSS-SECTION  
 7 SCALE: 1:75 FRAME #2



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 COMMERCIAL - INDUSTRIAL - RESIDENTIAL - FORENSIC - STEEL DETAILING  
**CAMILO PINEDA MORENO**  
 Send MEA to RPE.ing  
 RPEIG 13942 TSP PEG30378 (VIC)

Signature:

Date: 13.03.2026

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 SHEET 7 of 7