### ENGINEERING SCHEDULE

CERTIFIED STEEL PORTAL FRAME SHED DESIGN IN ACCORDANCE WITH NCC 2022 FOR SITE WIND SPEED "41.49m/s", WIND REGION "A0", TERRAIN CATEGORY "2", IMPORTANCE LEVEL "2"

Internal Pressure: 0.5

Design Snow Load: 0.00 KPa, Roof Snow Load: 0.00 KPa

Customer: Tara Clarke

Site Address: 919 Spring Ridge Rd, Beryl NSW 2852

Main Building: Span: 12, Length: 24, Height: 5, Roof Pitch: 11 degrees The length being comprised of 4 bays, the largest bay is 6m bays.

Left LeanTo: NA

Right LeanTo: Span: 6, Length: 24, Eave Height: 4.475, Roof Pitch: 5 degrees, Open

Total Kit Weight: 9815.08kg

**INTERNAL PORTALS** Column: 2C25024 Rafter: 2C25024 Knee Brace: 2C15015 Knee Brace Length: 2600 Apex Brace: 2C15015 Apex Brace Length: 5200

**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: 2C25024 Internal Rafter: 2C25024 End Column: C25024 End Rafter: C25024 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: 1250	Overlap: 10%
Front End Wall Girts: TH120100	Max Spacing: 1250	Overlap: 10%
Back End Wall Girts: TH120100	Max Spacing: 1250	Overlap: 10%
Roof Purlins: TH120100	Max Spacing: 1250	Overlap: 10%

NOTE: Girt spacing will vary to a maximum 1.25m where window/s 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: Mist Green External Wall Sheets: Mist Green Roller Doors: Mist Green Flashings: Mist Green PA Doors: NA Windows: NA

> COMMERCIAL - INDUSTRIAL - RESIDENTIAL - FOR

**CIVIL & STRUCTURAL ENGIN** 

Bend MIEAust RPEng RPEQ 15562 TBP PE003976 (VIC)

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

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.

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

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.

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

#### **ENGINEERING**

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

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

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

Concrete pad footings and slab supply and placement is to be in compliance with AS2870-2011 Residential Slabs & Footings, AS3600-2009 Concrete Structures for A2 and B2 exposure (i.e. 25mPa strength @ 28 days strength) with recommended slump 75 to 80mm for light pneumatic tyred traffic all trafficable floors.

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.

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.

#### CONSTRUCTION

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

Occupational Health and Safety Regulations and with plans provided.

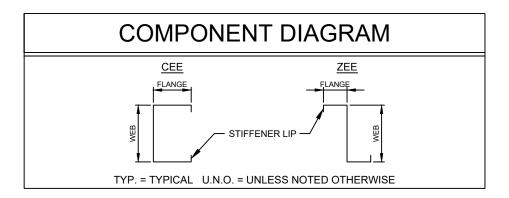
#### **GENERAL**

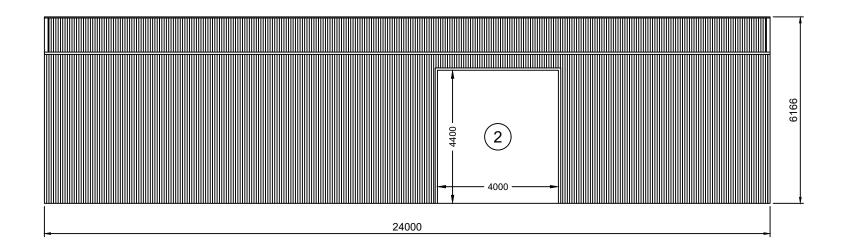
The designs as portrayed on the drawings remain the intellectual property of Best Sheds Pty Ltd and are provided for building approval and construction purposes only.

#### 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.

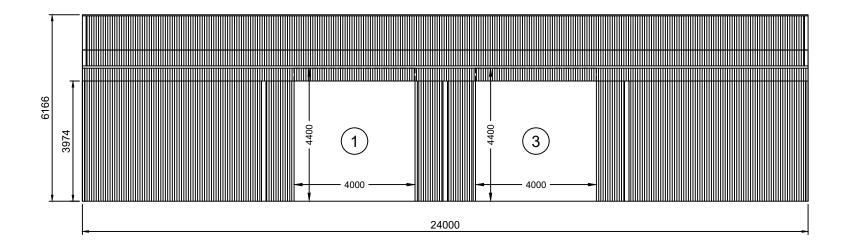






# LEFT ELEVATION

SCALE: 1:125





# **RIGHT ELEVATION**

SCALE: 1:125





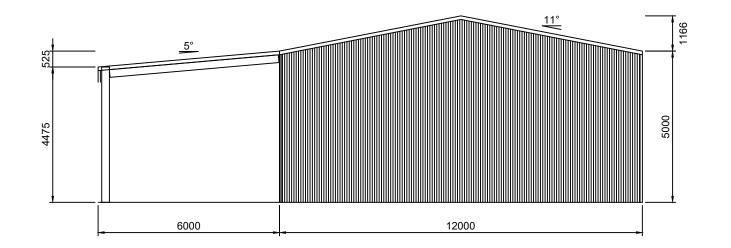


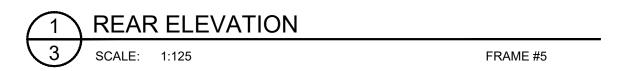


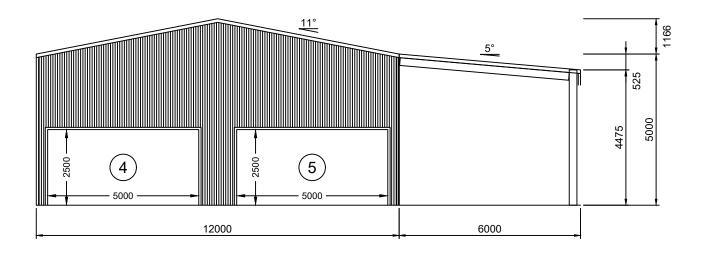
02.12.2024

Customer Name: Tara Clarke Site Address: 919 Spring Ridge Rd Beryl, NSW, 2852

DATE 02-12-2024 JOB NO. 0598471145 SHEET 2 of 10









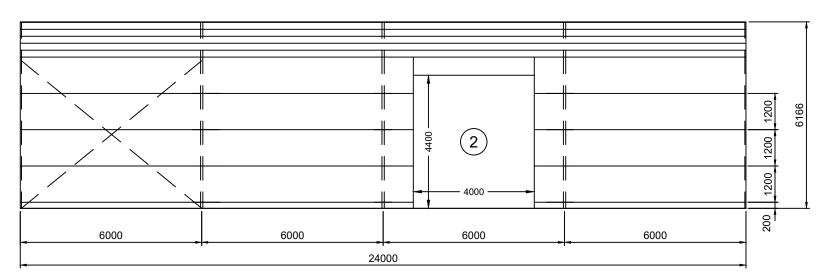


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COMMERCIAL - INDUSTRIAL - RESIDENTIAL - FORENSIO Signa Customer Name: Tara Clarke Site Address: 919 Spring Ridge Rd Beryl, NSW, 2852

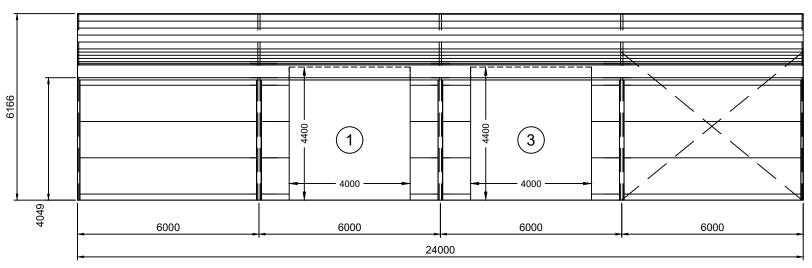
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DATE 02-12-2024 JOB NO. 0598471145 SHEET 3 of 10



# **LEFT ELEVATION**

SCALE: 1:125







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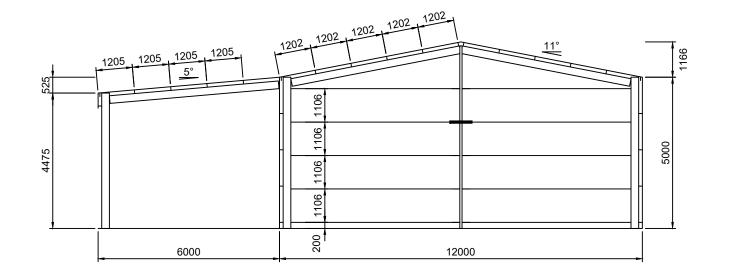


## **CIVIL & STRUCTURAL ENGINEERS**

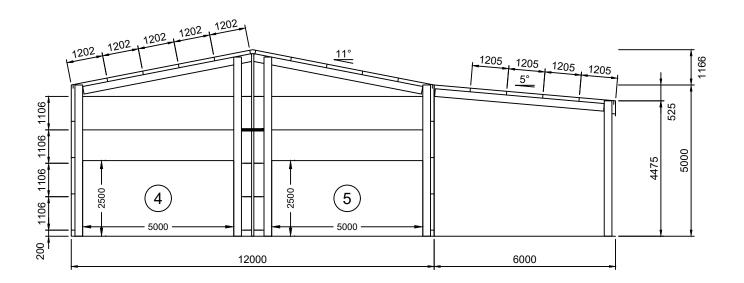
Customer Name: Tara Clarke Site Address: 919 Spring Ridge Rd Beryl, NSW, 2852

ate: 02.12.2024

DATE 02-12-2024 JOB NO. 0598471145 SHEET 4 of 10



**REAR ELEVATION** SCALE: 1:125 FRAME #5







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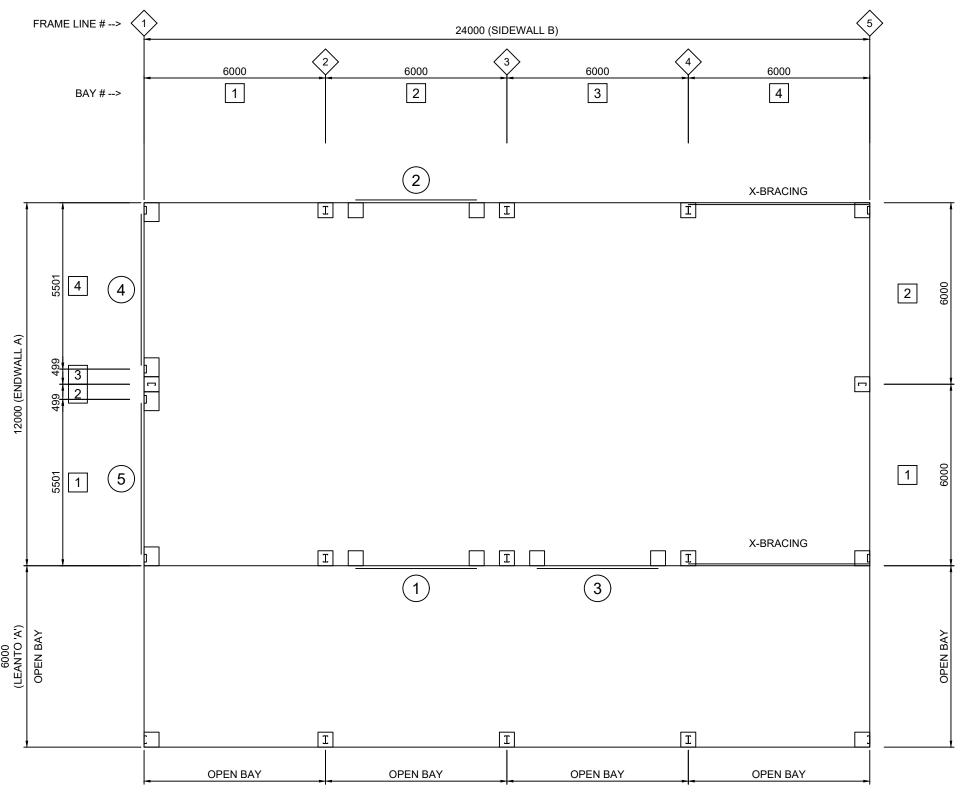
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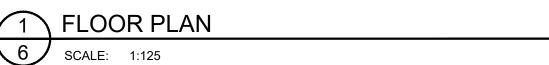
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RPEQ 15562 TBP PE003976 (VIC) CAMILO PINEDA MORENO

Date: .....

Customer Name: Tara Clarke Site Address: 919 Spring Ridge Rd Beryl, NSW, 2852

DATE 02-12-2024 JOB NO. 0598471145 SHEET 5 of 10





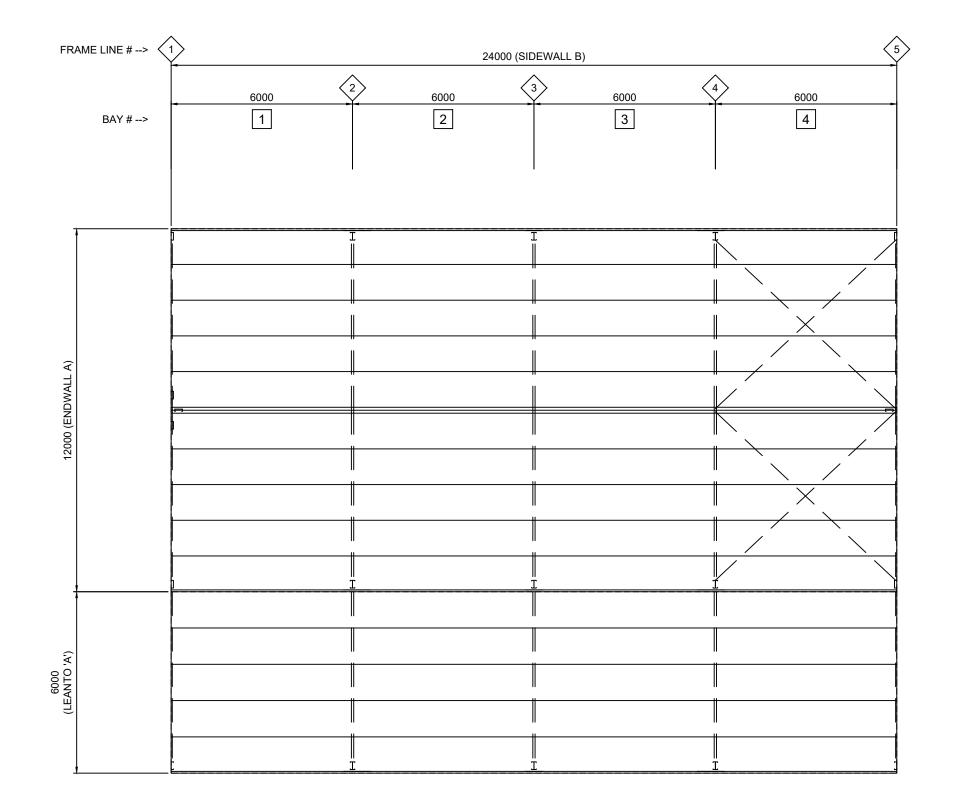


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RPEQ 15562 TBP PE003976 (VIC)

**CIVIL & STRUCTURAL ENGINEERS** COMMERCIAL - INDUSTRIAL - RESIDENTIAL - FORENSI

CAMILO PINEDA MORENO Sign Customer Name: Tara Clarke Site Address: 919 Spring Ridge Rd Beryl, NSW, 2852

DATE 02-12-2024 JOB NO. 0598471145 SHEET 6 of 10





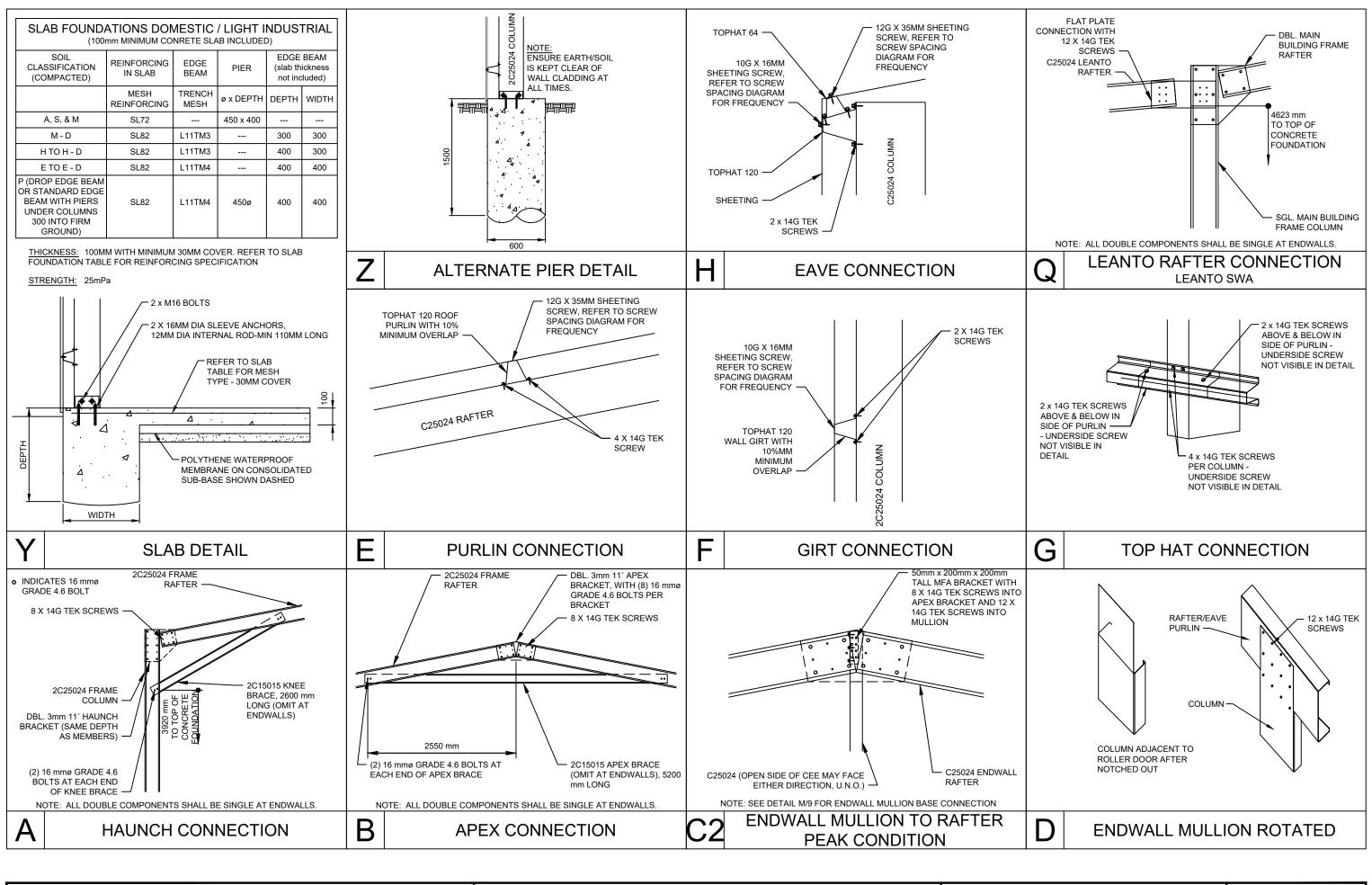


#### **CIVIL & STRUCTURAL ENGINEERS** COMMERCIAL - INDUSTRIAL - RESIDENTIAL

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RPEQ 15562 TBP PE003976 (VIC) CAMILO PINEDA MORENO

Customer Name: Tara Clarke Site Address: 919 Spring Ridge Rd Beryl, NSW, 2852

DATE 02-12-2024 JOB NO. 0598471145 SHEET 7 of 10







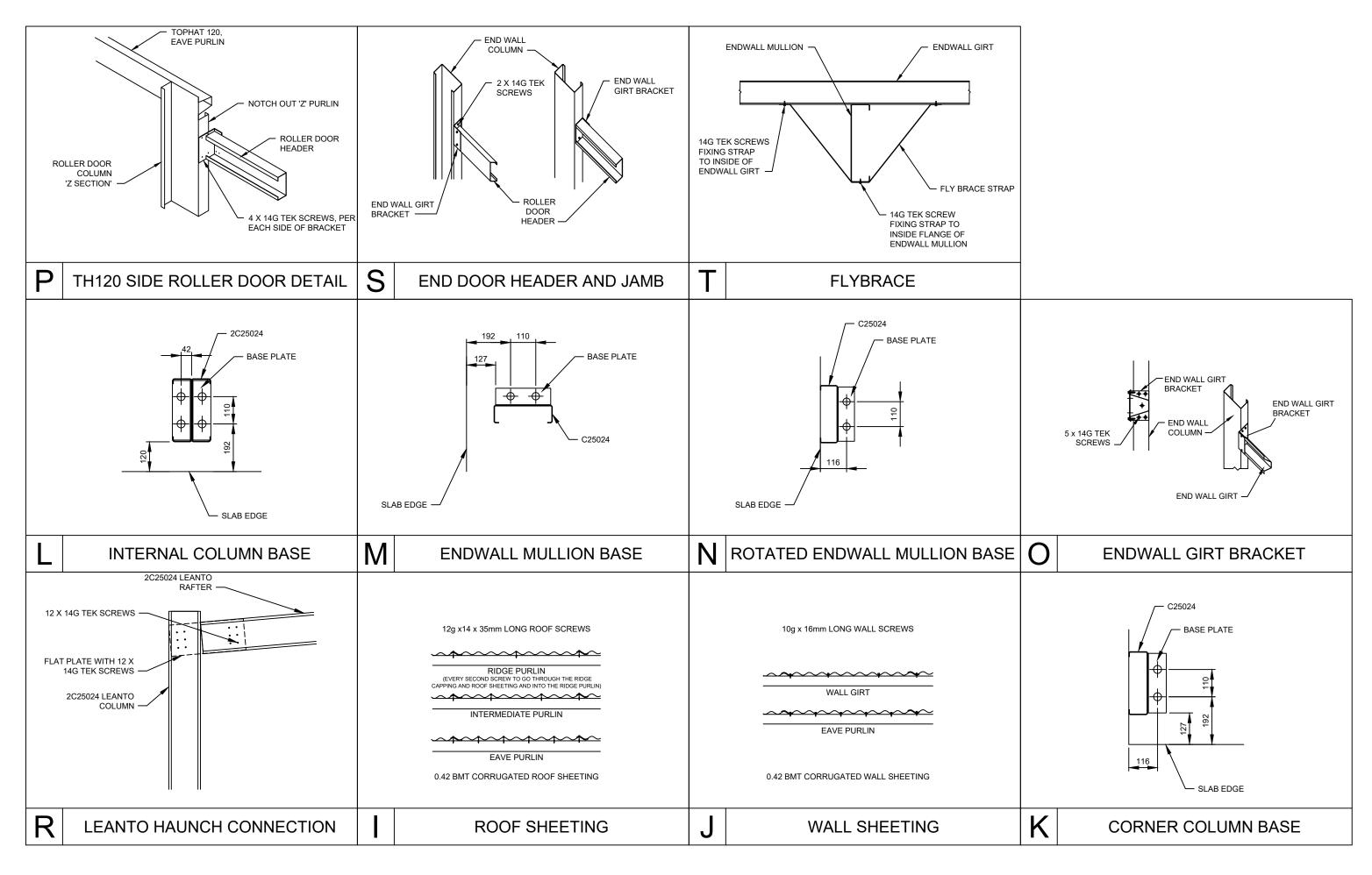


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Customer Name: Tara Clarke Site Address: 919 Spring Ridge Rd Beryl, NSW, 2852

DATE 02-12-2024 JOB NO. 0598471145 SHEET 8 of 10





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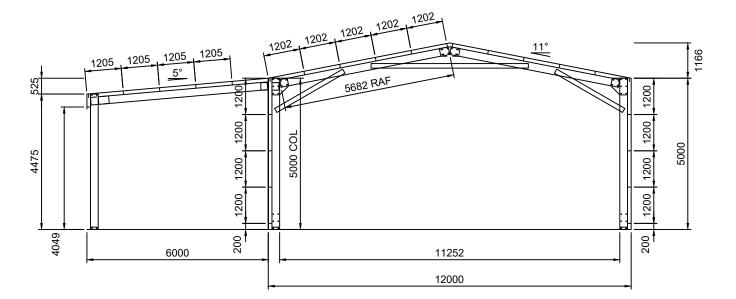
### **CIVIL & STRUCTURAL ENGINEERS**

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02.12.2024

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# TYP. FRAME CROSS-SECTION

SCALE: 1:125

FRAMES 2-4

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Customer Name: Tara Clarke Site Address: 919 Spring Ridge Rd Beryl, NSW, 2852

DATE 02-12-2024 JOB NO. 0598471145 SHEET 10 of 10