#### **ENGINEERING SCHEDULE**

CERTIFIED STEEL PORTAL FRAME SHED DESIGN IN ACCORDANCE WITH NCC 2022 FOR SITE WIND SPEED "39,56m/s", WIND REGION "A3". TERRAIN CATEGORY "2,38". IMPORTANCE LEVEL "2"

Internal Pressure: 0.5

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

Customer: Frank Suvajvich

Site Address: 24 Malbec Drive, Murrumbateman NSW 2582

Main Building: Span: 12, Length: 25, Height: 4, Roof Pitch: 11 degrees The length being comprised of 5 bays, the largest bay is 5m bays. Left LeanTo: NA

Right LeanTo: NA

Total Kit Weight: 7426.15kg

INTERNAL PORTALS

Column: C30024 Rafter: C30024 Knee Brace: C15024 Knee Brace Length: 2000 Apex Brace: NA

END PORTALS

Column: C30024 Rafter: C30024 Knee Brace: NA Knee Brace Length: NA Apex Brace: NA Apex Brace Length: NA Endwall Mullion: C30024

LEFT LEAN TO PORTALS

Internal Column: NA Internal Rafter: NA End Column: NA End Rafter: NA Knee Brace: NA Knee Brace Length: NA

Apex 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: 1200 | Overlap: 10% |
| Front End Wall Girts: TH120100 | Max Spacing: 1200 | Overlap: 10% |
| Back End Wall Girts: TH120100  | Max Spacing: 1200 | Overlap: 10% |
| Roof Purlins: TH120100         | Max Spacing: 1100 | Overlap: 10% |

NOTE: Girt spacing will vary to a maximum 1.2m 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: Colour External Wall Sheets: Colour Roller Doors: Colour Flashings: Colour PA Doors: Colour Windows: NA

**EMERALD** 

**CIVIL & STRUCTURAL ENGINEERS** 

CAMILO PINEDA MORENO

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 be 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.

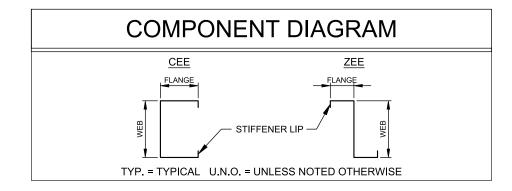
#### **GENERAL**

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 and are only valid when blue ink signed and dated by the engineer.

#### 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.



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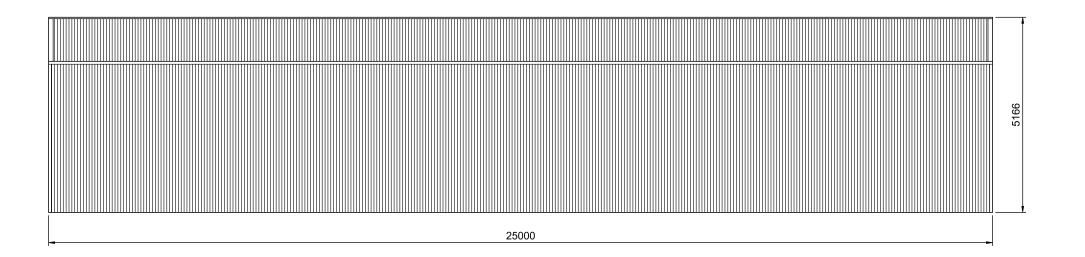
COMMERCIAL - INDUSTRIAL - RESIDENTIAL - FORENSIC - STEEL DETAILING

Bend MIEAust RPEng RPEQ 15562 TBP PE003976 (VIC)

Customer Name: Frank Suvajvich Site Address: 24 Malbec Drive Murrumbateman. NSW, 2582

20-12-2023 JOB NO. 0323901612

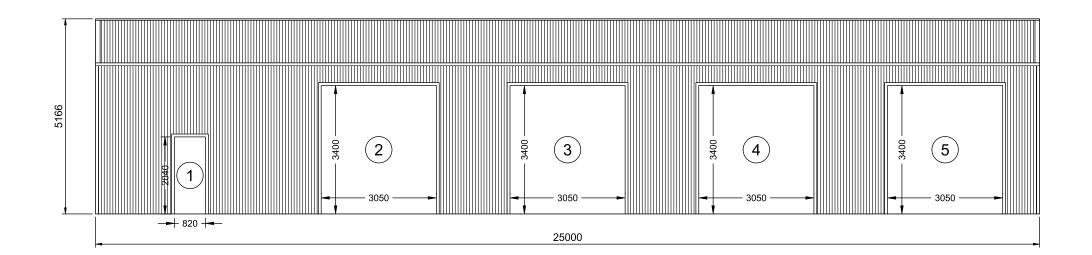
SHEET 1 of 9





### LEFT ELEVATION

SCALE: 1:100



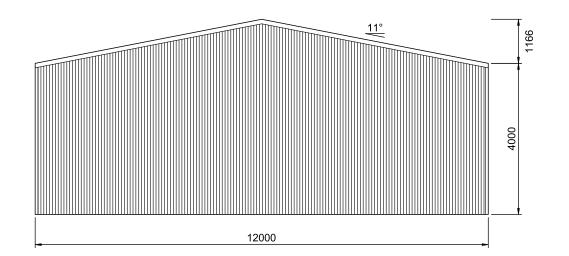


#### **RIGHT ELEVATION**

SCALE: 1:100



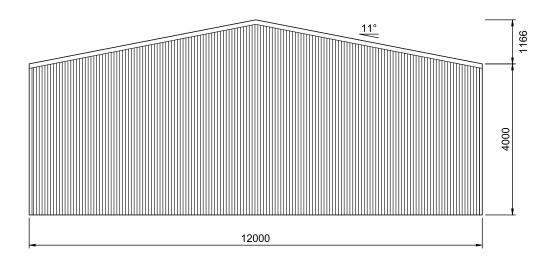




## **REAR ELEVATION**

SCALE: 1:100

FRAME #6



## FRONT ELEVATION

SCALE: 1:100

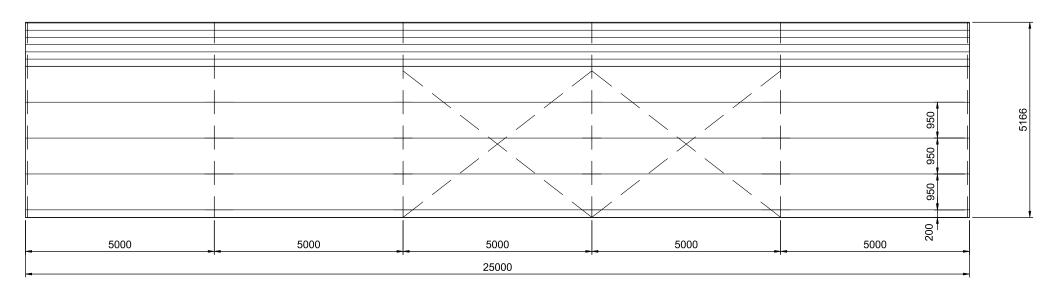
FRAME #1



Signature: Date: 20.12.2023

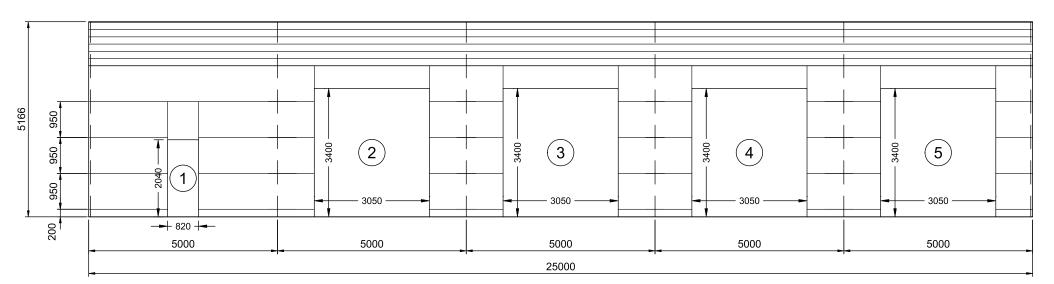
Customer Name: Frank Suvajvich Site Address: 24 Malbec Drive Murrumbateman, NSW, 2582

DATE 20-12-2023 JOB NO. 0323901612 SHEET 3 of 9



# LEFT ELEVATION

SCALE: 1:100





### **RIGHT ELEVATION**

SCALE: 1:100



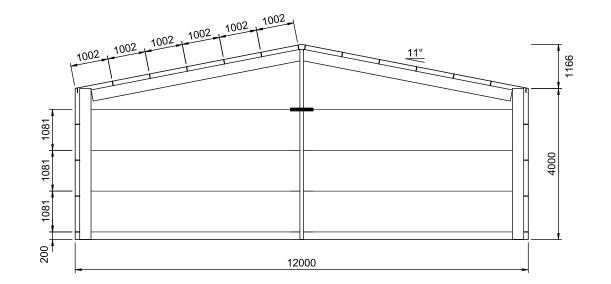
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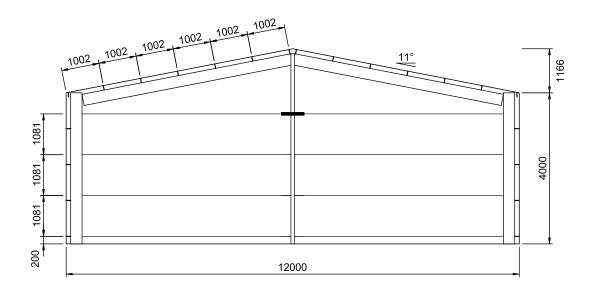
Customer Name: Frank Suvajvich Site Address: 24 Malbec Drive Murrumbateman, NSW, 2582

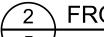
DATE 20-12-2023 JOB NO. 0323901612 SHEET 4 of 9



### **REAR ELEVATION**

SCALE: 1:100 FRAME #6





FRONT ELEVATION

SCALE: 1:100 FRAME #1



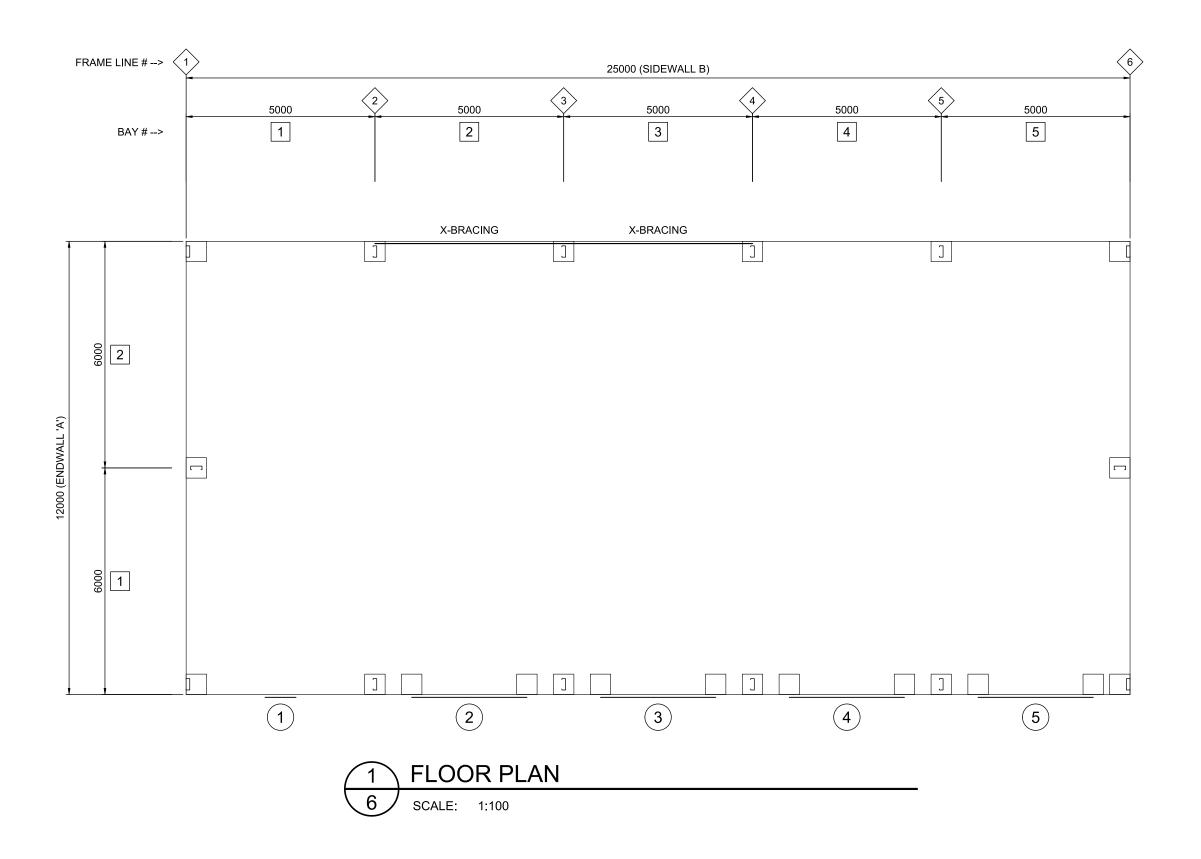
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Customer Name: Frank Suvajvich Site Address: 24 Malbec Drive Murrumbateman, NSW, 2582

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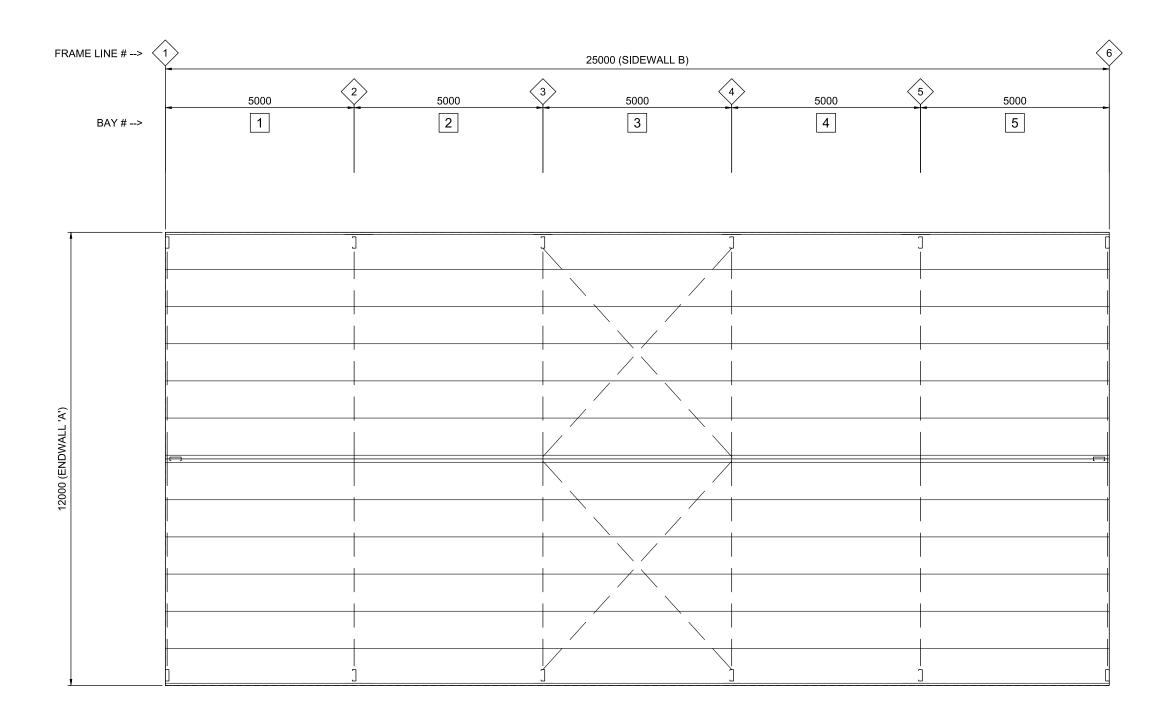




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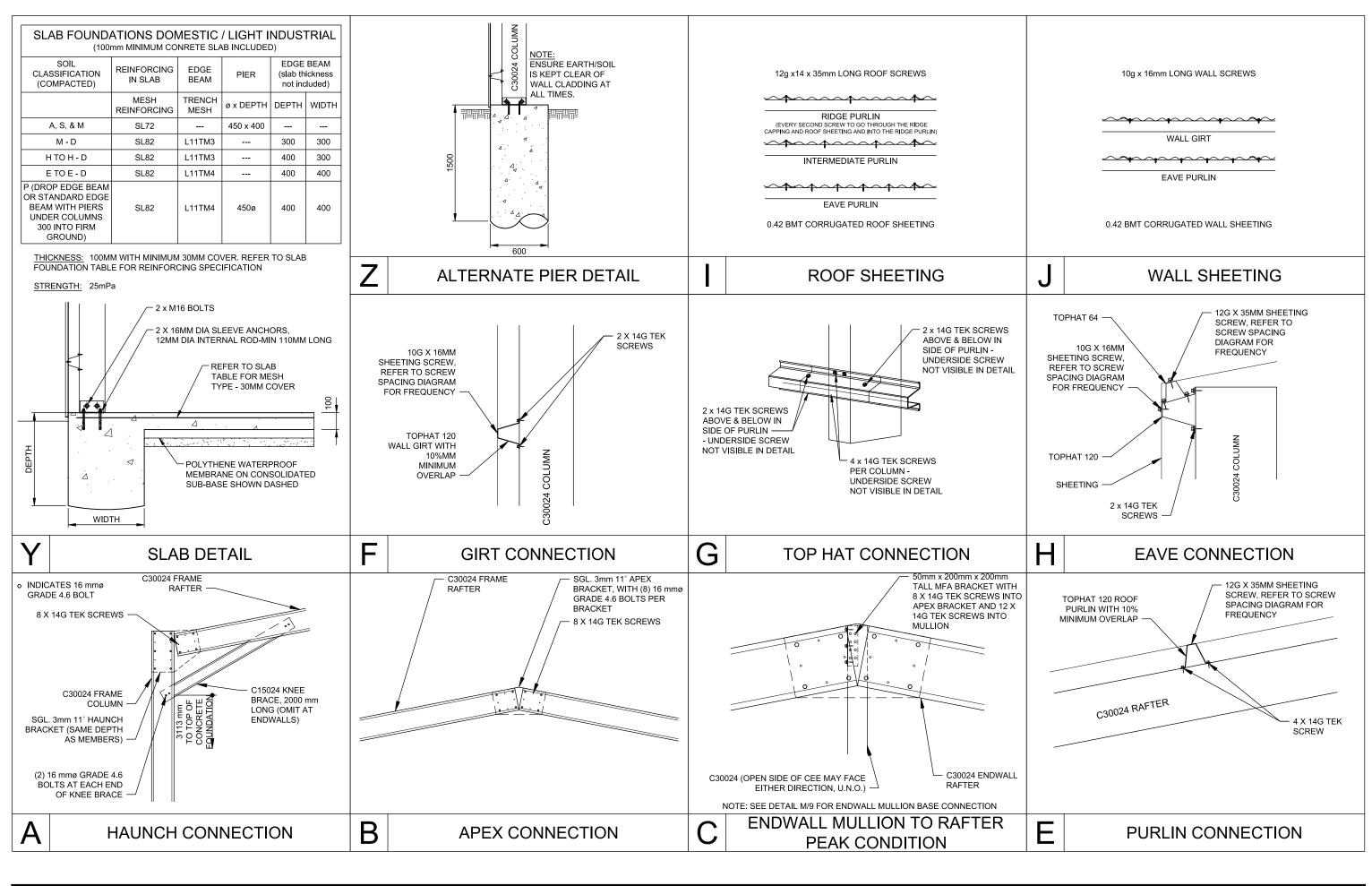






# **ROOF FRAMING PLAN**

SCALE: 1:100





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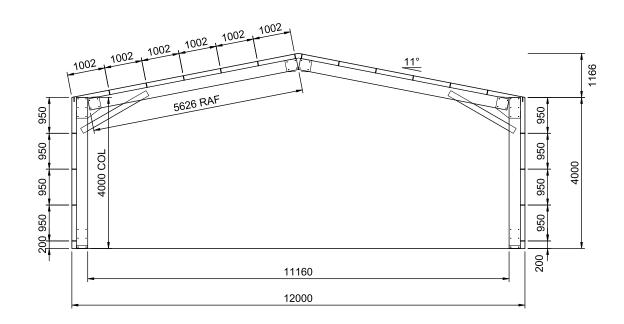
#### **CIVIL & STRUCTURAL ENGINEERS**

COMMERCIAL - INDUSTRIAL - RESIDENTIAL - FORENSIC - STEEL DETAILING

CAMILO PINEDA MORENO

Customer Name: Frank Suvajvich Site Address: 24 Malbec Drive Murrumbateman, NSW, 2582

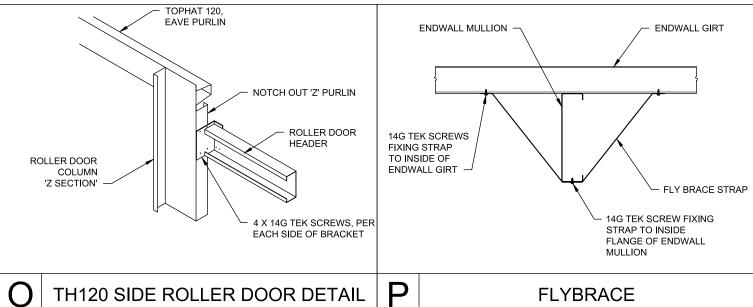
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9

TYP. FRAME CROSS-SECTION

SCALE: 1:100 FRAMES 2-5



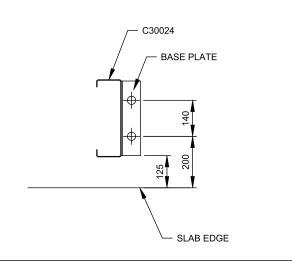
TH120 SIDE ROLLER DOOR DETAIL

C30024

136\_

BASE PLATE

**FLYBRACE** 



INTERNAL COLUMN BASE

SLAB EDGE

M **ENDWALL MULLION BASE** 

200

<del>-</del>

END WALL GIRT BRACKET END WALL GIRT - END WALL 4 x 14G TEK COLUMN -END WALL GIRT

N

**ENDWALL GIRT BRACKET** 



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- SLAB EDGE

**CORNER COLUMN BASE** 



**CIVIL & STRUCTURAL ENGINEERS** 

COMMERCIAL - INDUSTRIAL - RESIDENTIAL - FORENSIC - STEEL DETAILING

CAMILO PINEDA MORENO



BASE PLATE

C30024

Customer Name: Frank Suvajvich Site Address: 24 Malbec Drive Murrumbateman, NSW, 2582

DATE 20-12-2023 JOB NO. 0323901612 SHEET 9 of 9