# **ENGINEERING SCHEDULE**

CERTIFIED STEEL PORTAL FRAME SHED DESIGN FOR "REGION A" TERRAIN CATEGORY 2.0, 2.5 & 3.0 - IMPORTANCE LEVEL 2.

Internal Pressure: 0.5

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

Customer: Kelly Martin-Dye

Site Address: 31 North Street, Harden NSW 2587

Main Building: Span: 6, Length: 7, Height: 2.4, Roof Pitch: 11 degrees The length being comprised of 2 bays, the largest bay is 3.5m bays. Left LeanTo: NA

Right LeanTo: NA

Total Kit Weight: 1000.7kg

**INTERNAL PORTALS** 

Column: C15015 Rafter: C15015 Knee Brace: NA Knee Brace Length: NA Apex Brace: NA

Apex Brace Length: NA

END PORTALS

Column: C15015 Rafter: C15015 Knee Brace: NA Knee Brace Length: NA Apex Brace: NA Apex Brace Length: NA Endwall Mullion: C15015

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:	C10010			
	Side Wall Girts:	TH64075	Max Spacing:	1250	Overlap: 10%
	Front End Wall Girts:	TH64075	Max Spacing:	1250	Overlap: 10%
	Back End Wall Girts:	TH64075	Max Spacing:	1250	Overlap: 10%
	Roof Purlins:	TH64075	Max Spacing.	1000	Overlap: 10%

NOTE: Girt spacing will vary to a maximum 1.25m where window/s are located.

**FASTENERS** 

Sleeve Anchor Bolts: M12x80 Sleeve Anchor Yellow Zinc Frame Bolts: M12x30 Purlin Assembly Zinc (Mild) Frame Screws: Frame Screw 14x14x22

Cross Bracing Strap: NA Open Bay Header Height: NA

COLOUR SCHEDULE

Roof Sheets: Slate Grev External Wall Sheets: Slate Grey Roller Doors: Slate Grey Flashings: Slate Grey PA Doors: Slate Grey Windows: NA

> **EMERALD**

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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.

This structure is designed in compliance with AS4600, AS3600 and AS1170 1 to 4 as Importance Level 2 with a Live Load of

The structures are clad with corrugated pre-painted finish, 0.42mm walls and 0.42mm roof (compliant with AS1562.1 Metal) over

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

DOMESTIC & LIGHT INDUSTRIAL STEEL PORTAL FRAME SHED STRUCTURES

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

cold formed 450 to 550mPa galvanized steel C sections primary frames.

#### **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.

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.

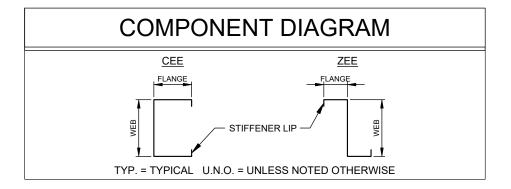
#### **GENERAL**

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.



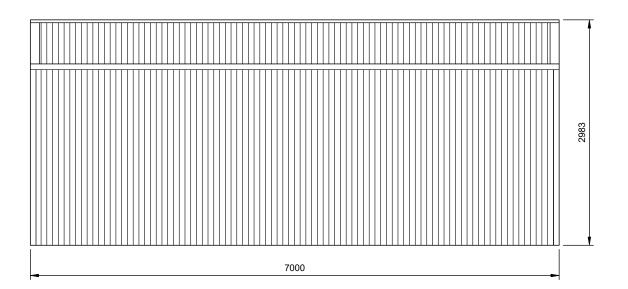
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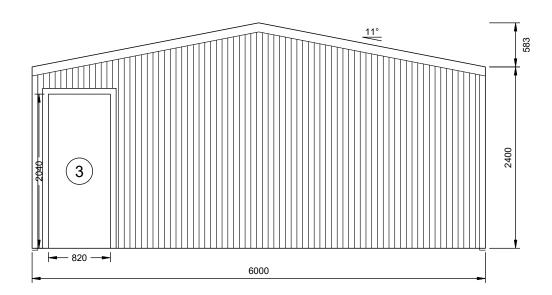
Customer Name: Kelly Martin-Dye Site Address: 31 North Street Harden.

NSW, 2587

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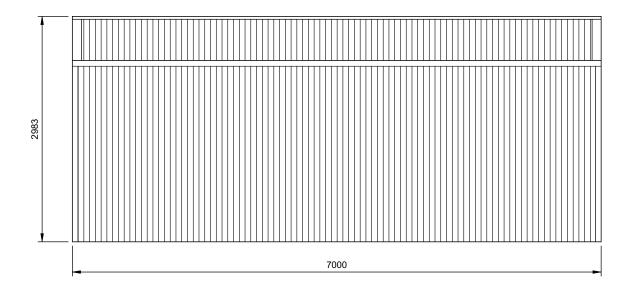
SHEET 1 of 7





LEFT ELEVATION

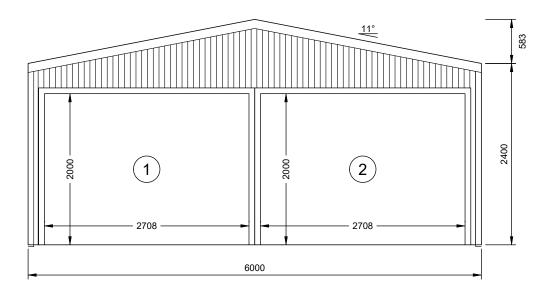
SCALE: 1:50



**REAR ELEVATION** 

SCALE: 1:50

FRAME #3



**RIGHT ELEVATION** 

SCALE: 1:50

**FRONT ELEVATION** 

SCALE: 1:50

FRAME #1

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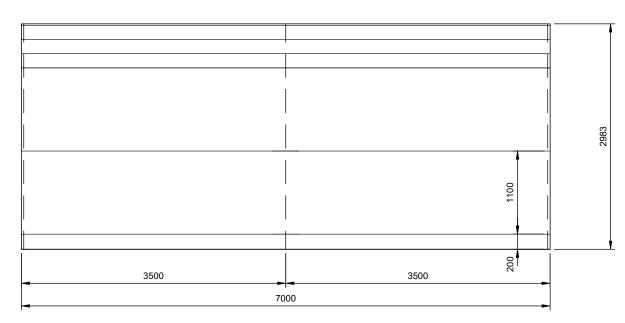
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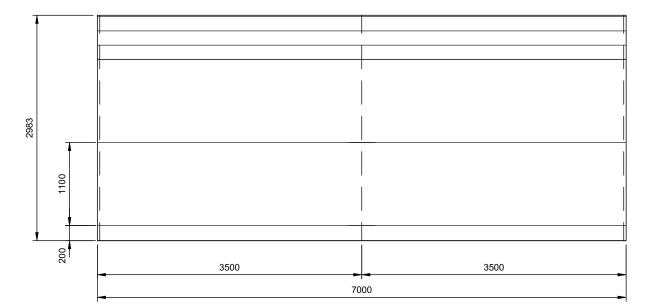
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LEFT ELEVATION

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**RIGHT ELEVATION** 

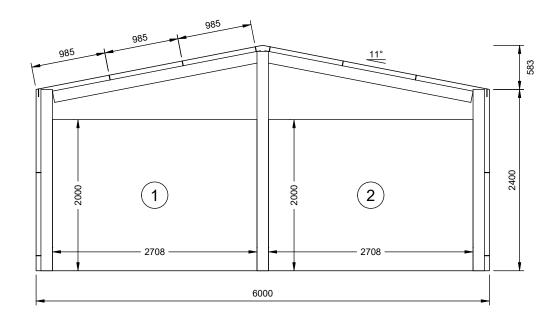
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**REAR ELEVATION** 

SCALE: 1:50

FRAME #3



**FRONT ELEVATION** 

SCALE: 1:50

FRAME #1

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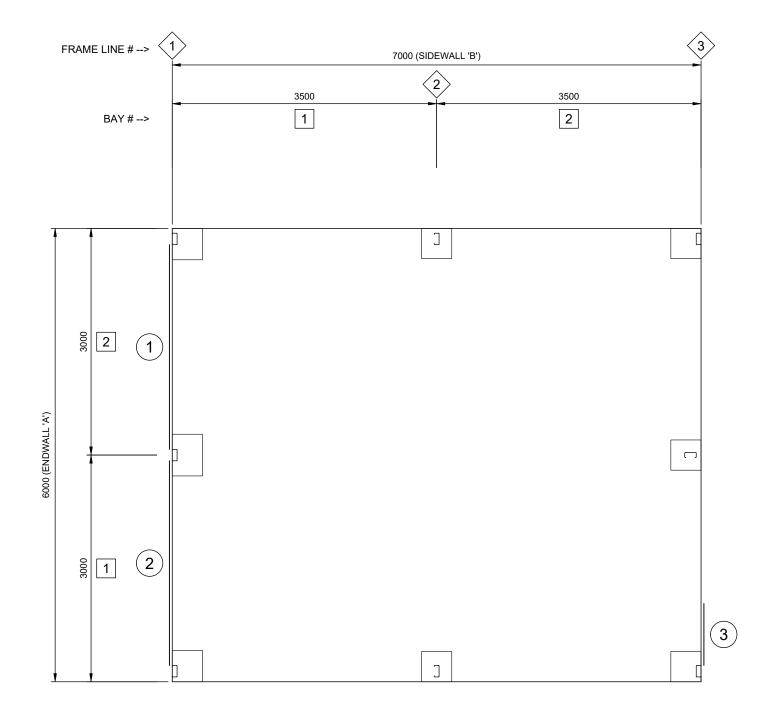
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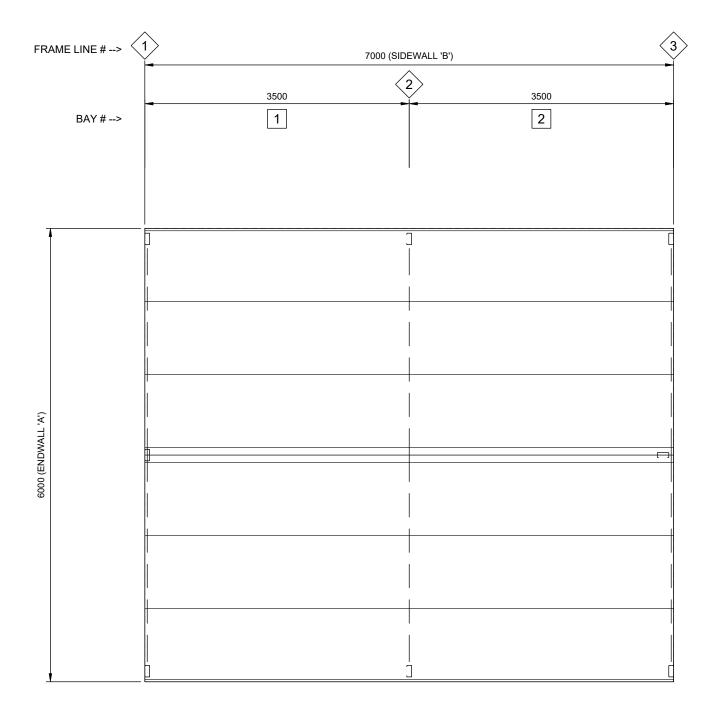
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FLOOR PLAN

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**ROOF FRAMING PLAN** 

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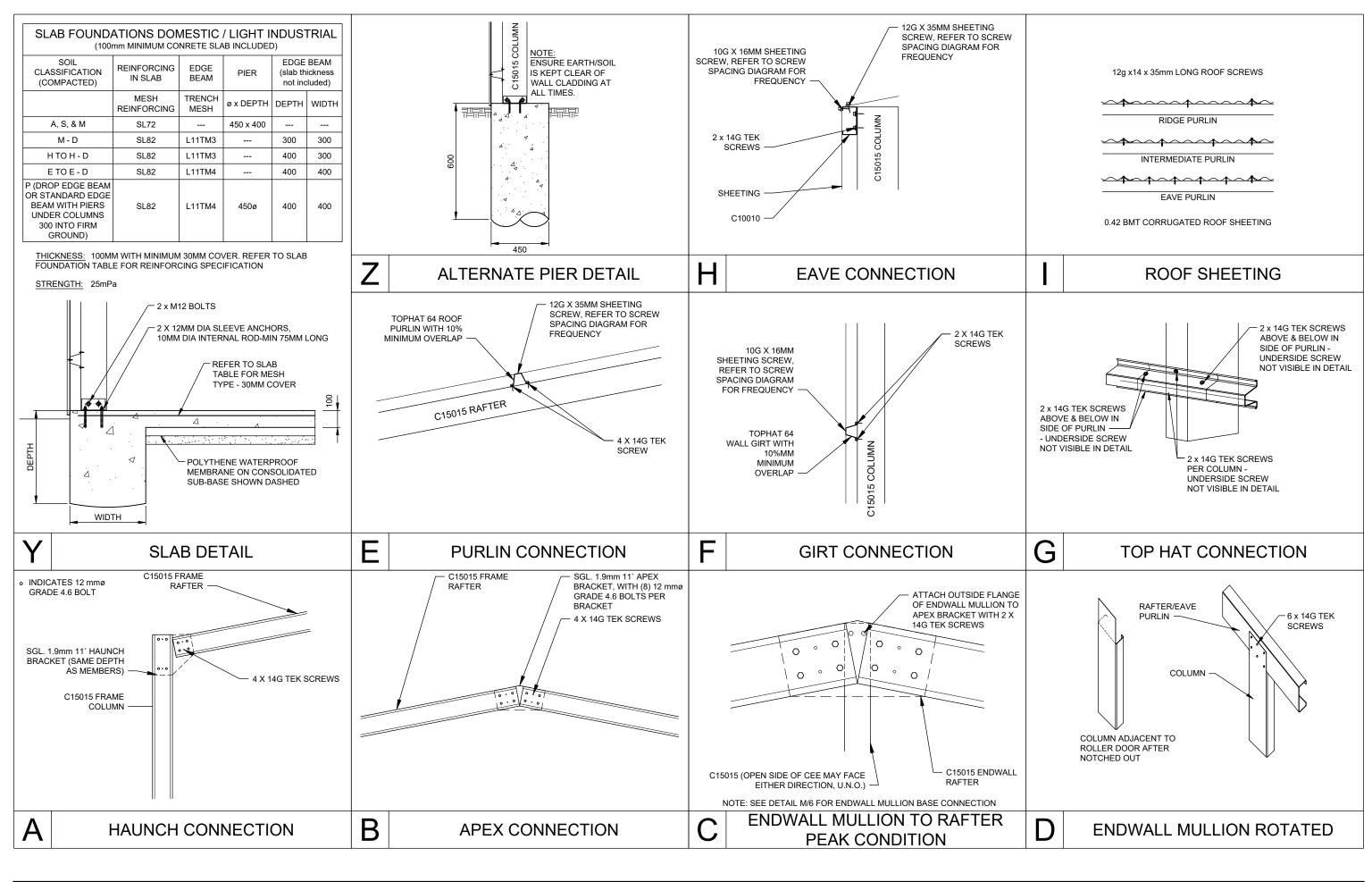
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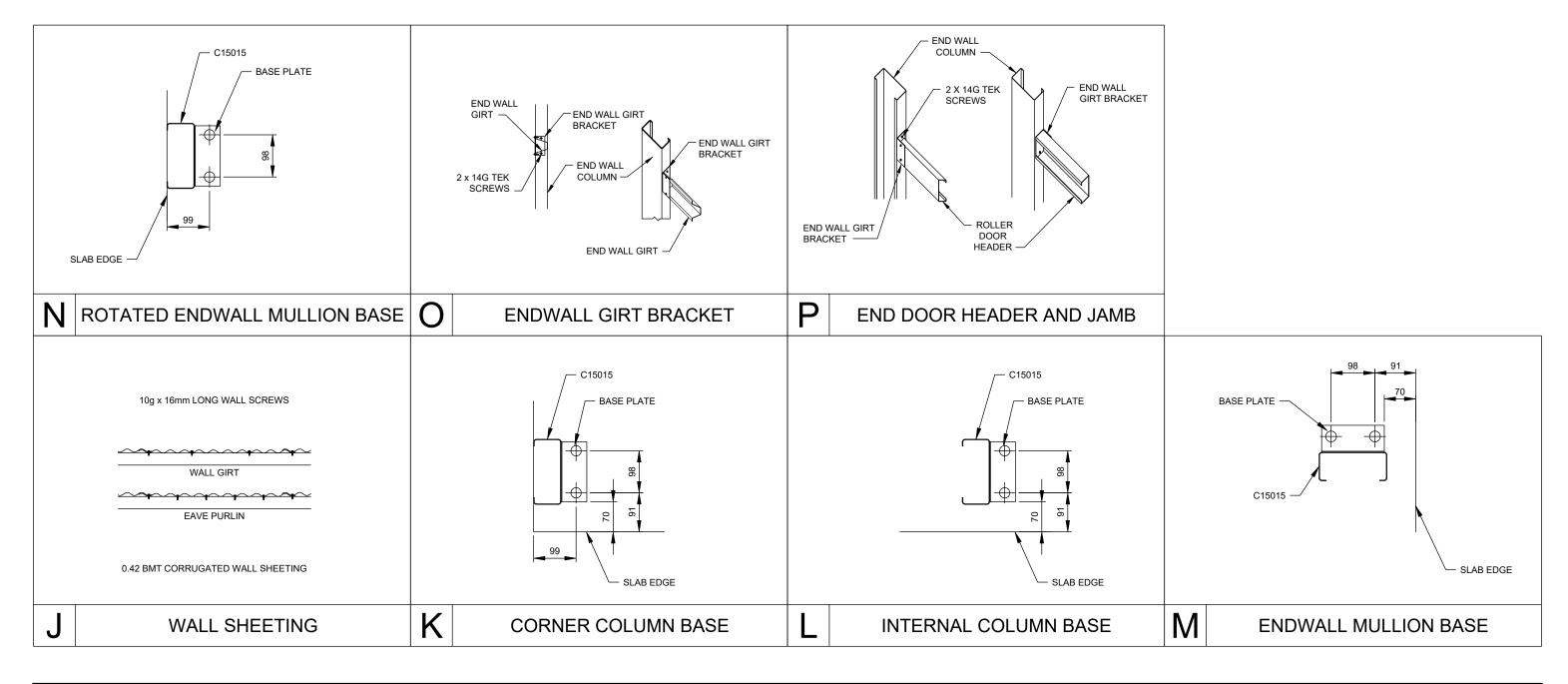
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Signature: Date: 27.05.2022

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NSW, 2587

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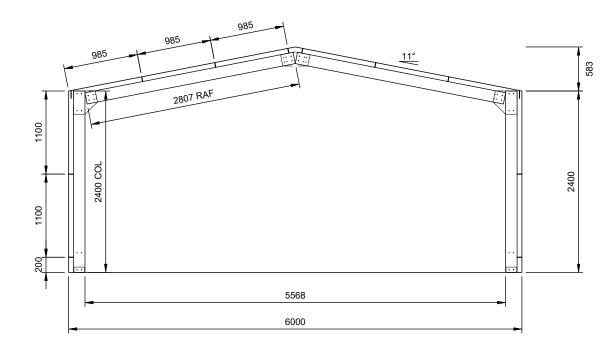


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# TYP. FRAME CROSS-SECTION

SCALE: 1:50 FRAME 2

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