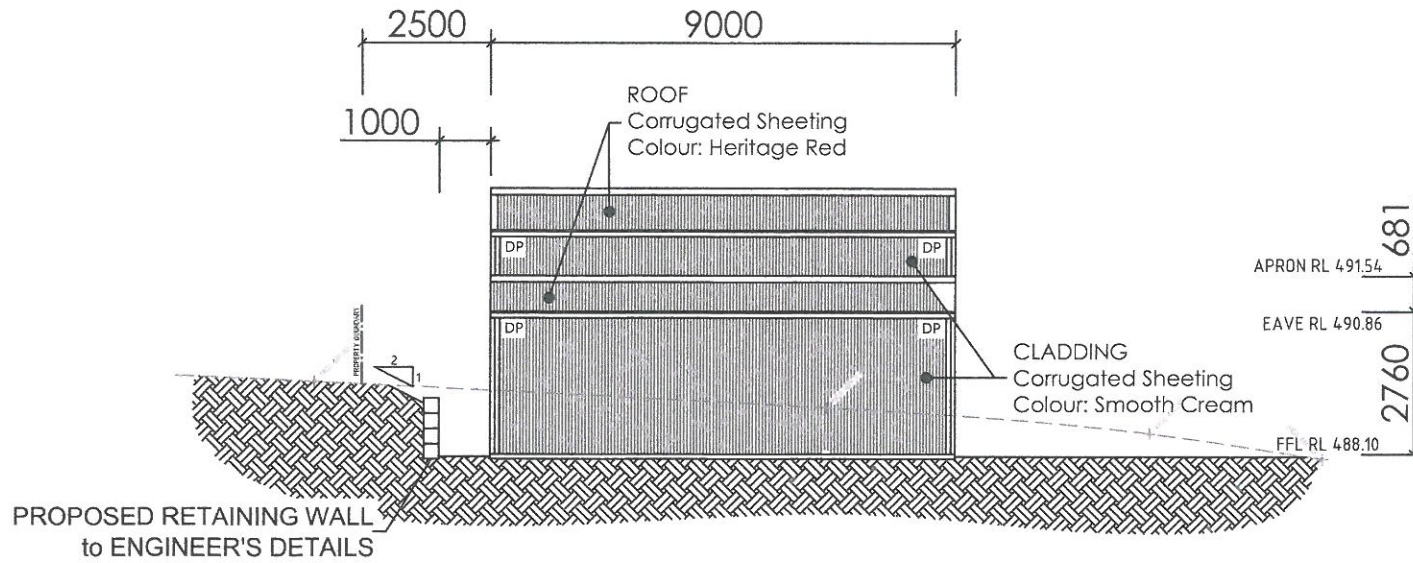


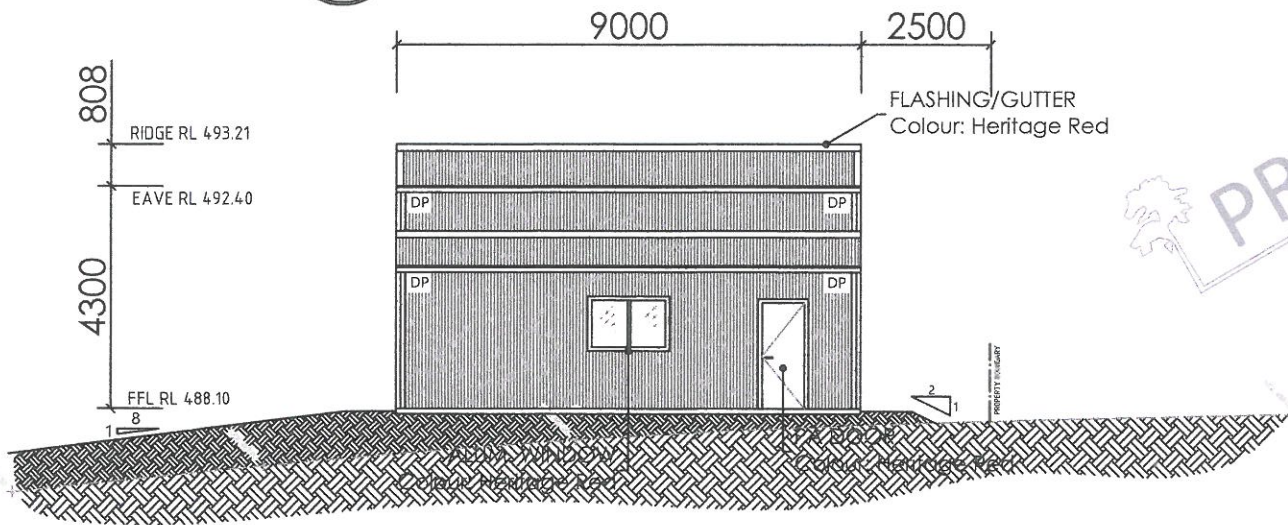
Supplied By:



03  
04

### South-West Elevation

1:100



04  
04

### North-East Elevation

1:100

PRELIMINARY PLANS

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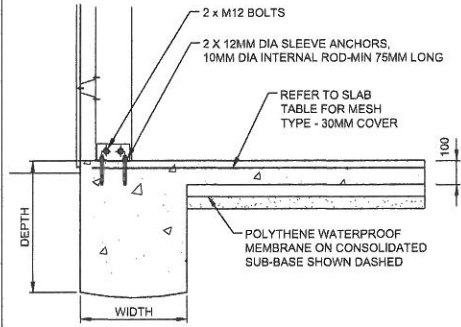
**Proposed:** Steel Frame Shed  
**Client:** Steve NEELY  
**Address:** 4 Eleanor Dark Court MUDGEE NSW 2850  
 Lot 305/-/DP 1185016  
**Council:** MID-WESTERN REGIONAL COUNCIL

<b>Plan:</b>	ELEVATION VIEWS NORTH-EAST & SOUTH-WEST	
<b>Drawn:</b>	K.R.K	<b>Sheet:</b>
<b>Date:</b>	16 Mar 2022	<b>Of:</b>
<b>Scale:</b>		05
<b>Job No:</b>	220212-SNE	05

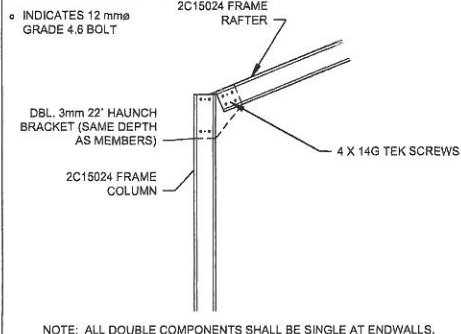
**Note:** Plans to be printed on A3 to be to scale. Do not scale off plans.  
 All dimensions to be checked and verified on site.

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

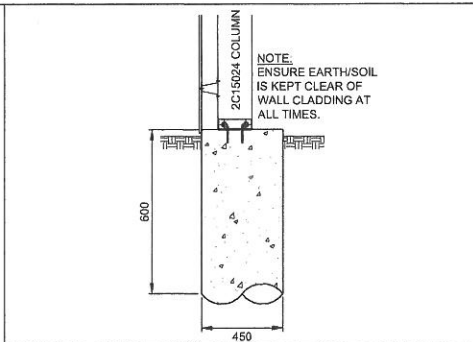
THICKNESS: 100MM WITH MINIMUM 30MM COVER. REFER TO SLAB FOUNDATION TABLE FOR REINFORCING SPECIFICATION  
STRENGTH: 25mPa



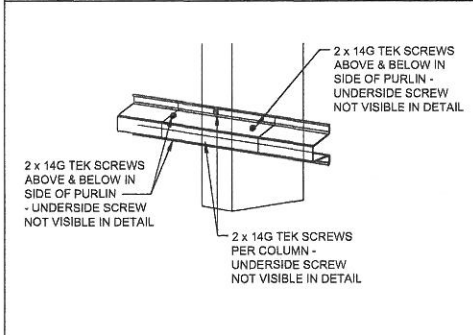
**Y** SLAB DETAIL



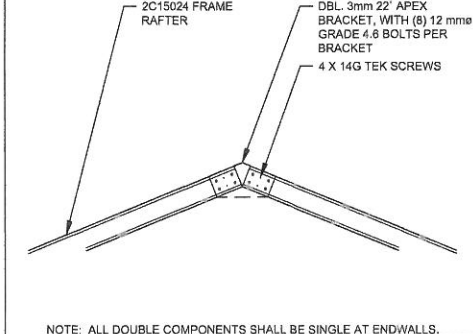
**A** HAUNCH CONNECTION



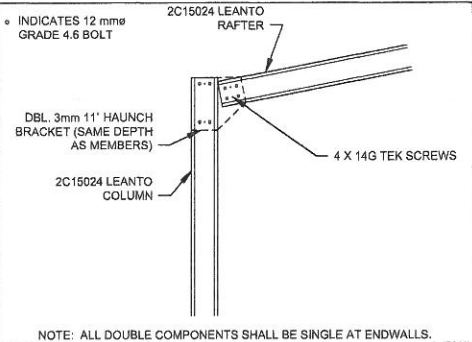
**Z** ALTERNATE PIER DETAIL



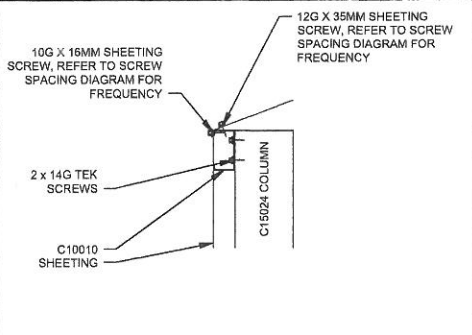
**E** TOP HAT CONNECTION



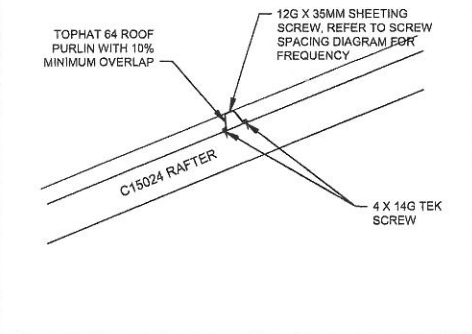
**B** APEX CONNECTION



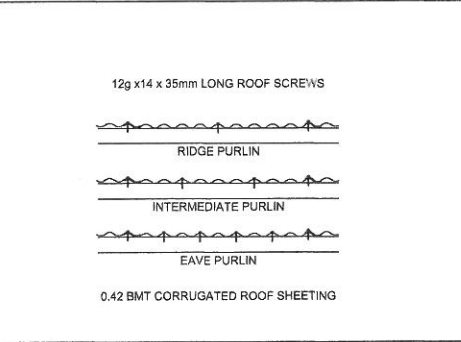
**R** LEANTO HAUNCH CONNECTION



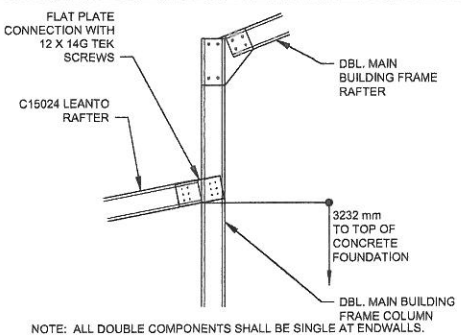
**F** EAVE CONNECTION



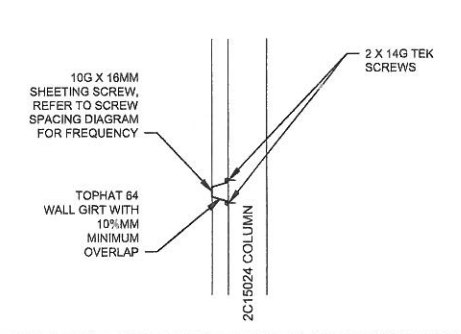
**E** PURLIN CONNECTION



**I** ROOF SHEETING



**Q** LEANTO RAFTER CONNECTION



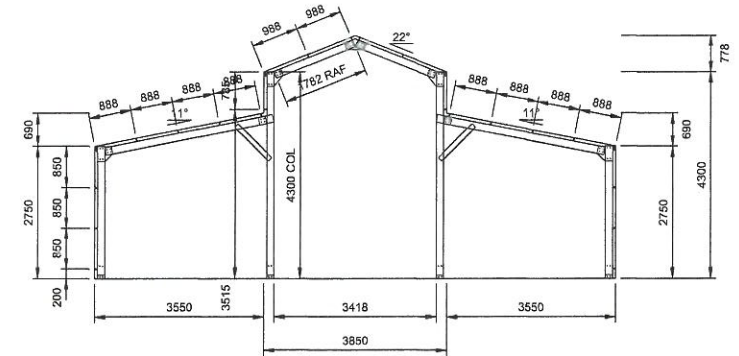
**F** GIRT CONNECTION

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

**EMERALD** CIVIL & STRUCTURAL ENGINEERS  
COMMERCIAL - INDUSTRIAL - RESIDENTIAL - FORENSIC - STEEL DETAILING  
CAMILO PINEDA MORENO  
Bond MIEAust RPEng  
RPEQ 15562 TBP RC41817 (VIC)  
Signature: [Redacted] Date: 14.06.2021

Customer Name: Steve Neely  
Site Address: 4 Eleanor Dark Court  
Mudgee, NSW, 2850

DATE: 14-06-2021  
JOB NO. 0386095094  
SHEET 5 of 6



**1** **TYP. FRAME CROSS-SECTION**  
**6** SCALE: 1:100 FRAMES 2, 3

<p><b>N</b> END DOOR HEADER AND JAMB</p>	<p><b>O</b> COLUMN ADJACENT TO ROLLER DOOR</p>		
<p><b>J</b> WALL SHEETING</p>	<p><b>K</b> CORNER COLUMN BASE</p>	<p><b>L</b> INTERNAL COLUMN BASE</p>	<p><b>M</b> ENDWALL GIRTS BRACKET</p>

# ENGINEERING SCHEDULE

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

Internal Pressure: 0.7  
Design Snow Load: 0.00 KPa, Roof Snow Load: 0.00 KPa

Customer: Steve Neely  
Site Address: 4 Eleanor Dark Court, Mudgee NSW 2850

Main Building: Span: 3.85, Length: 9, Height: 4.3, Roof Pitch: 22 degrees  
The length being comprised of 3 bays, the largest bay is 3m bays.  
Left LeanTo: Span: 3.55, Length: 9, Eave Height: 2.75, Roof Pitch: 11 degrees, Enclosed  
Right LeanTo: Span: 3.55, Length: 9, Eave Height: 2.75, Roof Pitch: 11 degrees, Enclosed

Total Kit Weight: 3110.57kg

INTERNAL PORTALS
Column: 2C15024
Rafter: 2C15024
Knee Brace: NA
Knee Brace Length: NA
Apex Brace: NA
Apex Brace Length: NA

END PORTALS
Column: C15024
Rafter: C15024
Knee Brace: NA
Knee Brace Length: NA
Apex Brace: NA
Apex Brace Length: NA
Endwall Mullion: C15024

LEFT LEAN TO PORTALS
Internal Column: 2C15024
Internal Rafter: 2C15024
End Column: C15024
End Rafter: C15024
Knee Brace: N/A
Knee Brace Length: 1000

RIGHT LEAN TO PORTALS
Internal Column: 2C15024
Internal Rafter: 2C15024
End Column: C15024
End Rafter: C15024
Knee Brace: N/A
Knee Brace Length: 1000

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

PURLINS AND GIRTS		
Eave Purlin: C10010	Max Spacing: 1100	Overlap: 10%
Side Wall Girts: TH64120	Max Spacing: 1100	Overlap: 10%
Front End Wall Girts: TH64120	Max Spacing: 1100	Overlap: 10%
Back End Wall Girts: TH64120	Max Spacing: 1100	Overlap: 10%
Roof Purlins: TH64120	Max Spacing: 1000	Overlap: 10%

NOTE: Girt spacing will vary to a maximum 1.1m 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: 860

COLOUR SCHEDULE
Roof Sheets: Heritage Red
External Wall Sheets: Smooth Cream
Roller Doors: Heritage Red
Flashings: Heritage Red
PA Doors: Heritage Red
Windows: Heritage Red

## 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.

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.

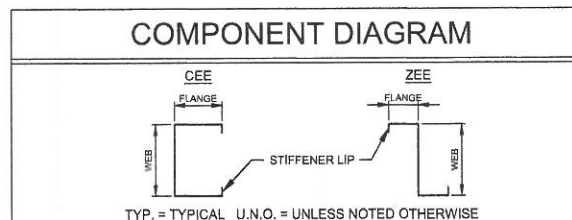
## GENERAL

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.



**best sheds**  
Value & Quality Direct to You

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

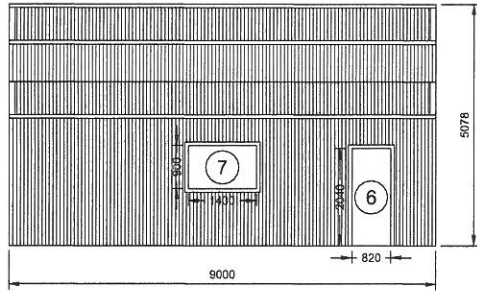
**CIVIL & STRUCTURAL ENGINEERS**  
COMMERCIAL - INDUSTRIAL - RESIDENTIAL - FORENSIC - STEEL DETAILING

**CAMILO PINEDA MORENO**  
BEng MEng RP Eng  
RPEQ 15362 TBP RC41617 (VIC)

Signature: \_\_\_\_\_ Date: 14.06.2021

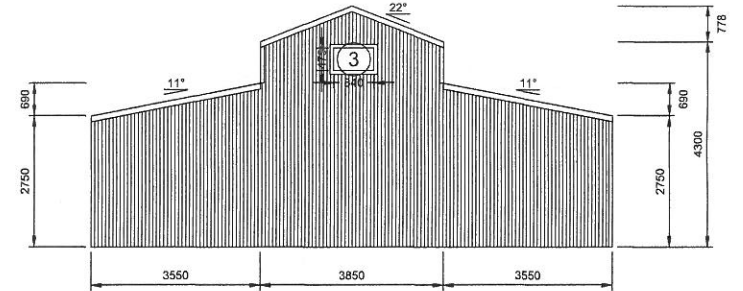
Customer Name: Steve Neely  
Site Address: 4 Eleanor Dark Court  
Mudgee,  
NSW, 2850

DATE 14-06-2021  
JOB NO. 0386095094  
SHEET 1 of 6



2 LEFT ELEVATION

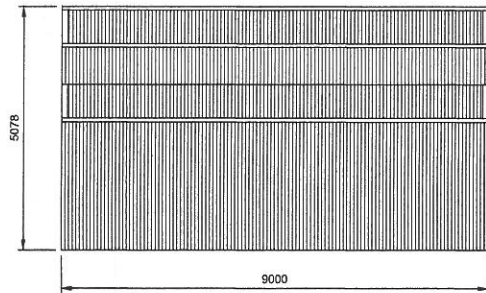
SCALE: 1:100



3 REAR ELEVATION

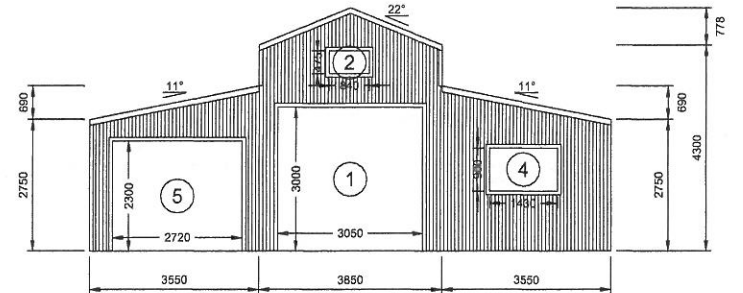
SCALE: 1:100

FRAME #4



1 RIGHT ELEVATION

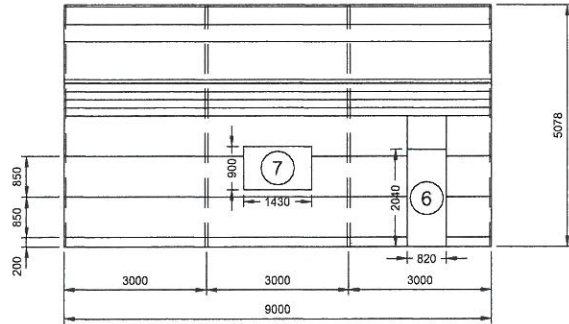
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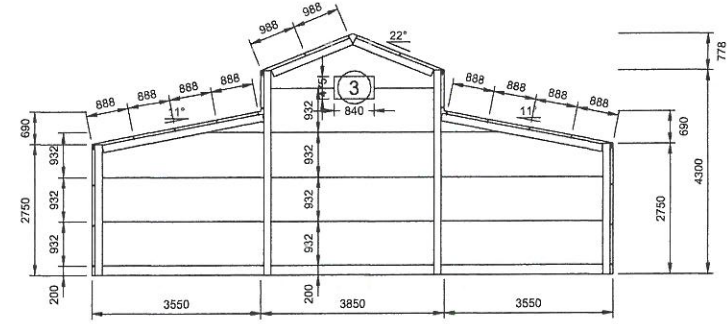
4 FRONT ELEVATION

SCALE: 1:100

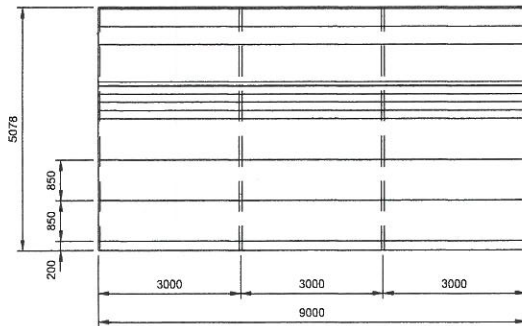
FRAME #1



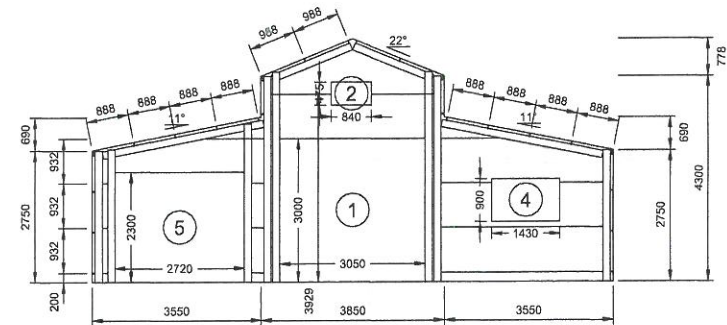
2 LEFT ELEVATION  
3 SCALE: 1:100



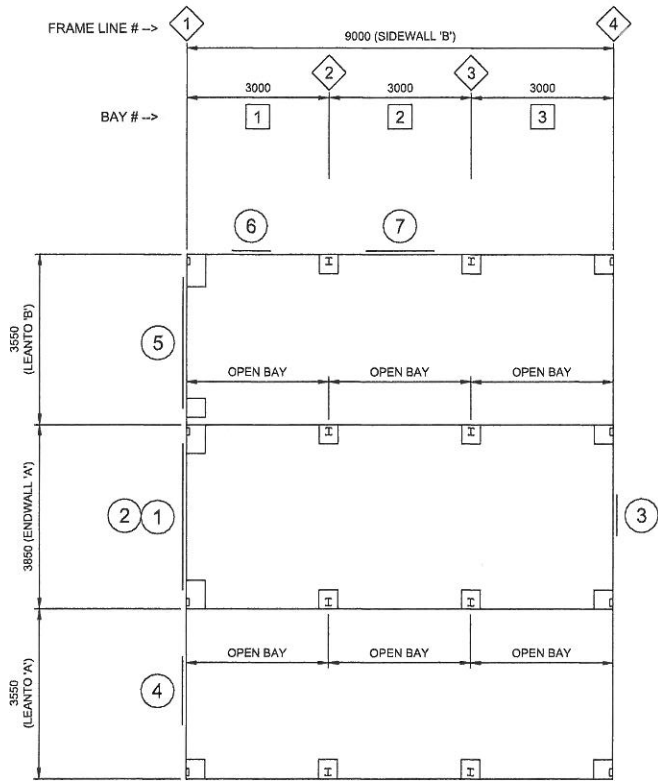
3 REAR ELEVATION  
3 SCALE: 1:100 FRAME #4



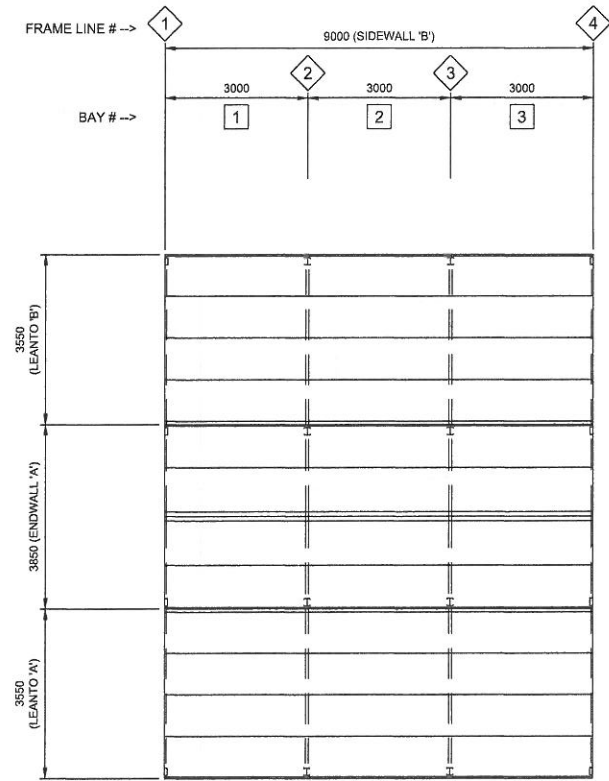
1 RIGHT ELEVATION  
3 SCALE: 1:100



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

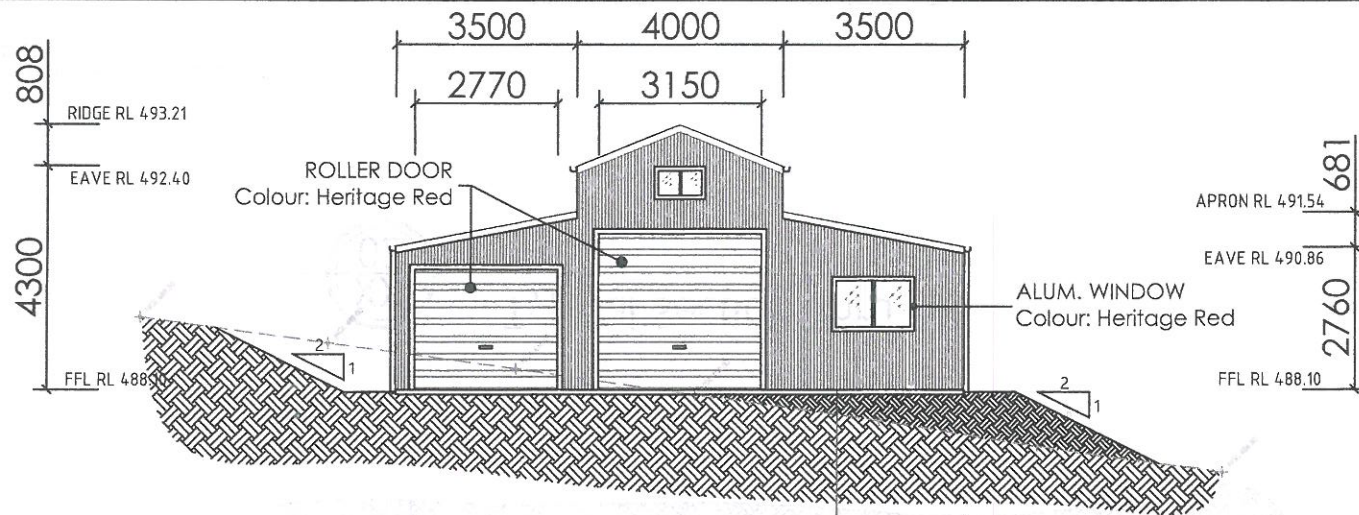


1 FLOOR PLAN  
4 SCALE: 1:100

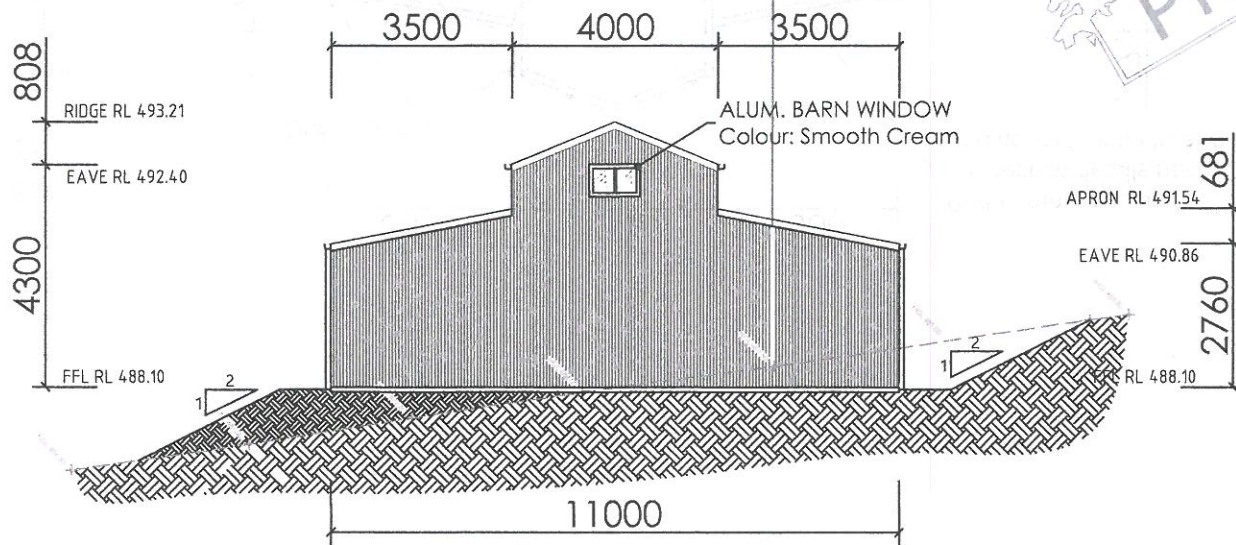


2 ROOF FRAMING PLAN  
4 SCALE: 1:100

Supplied By:



11000  
 01  
 04  
 South-East Elevation  
 1:100



11000  
 02  
 04  
 North-West Elevation  
 1:100

PRELIMINARY PLANS

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**Proposed:** Steel Frame Shed  
**Client:** Steve NEELY  
**Address:** 4 Eleanor Dark Court MUDGEE NSW 2850  
 Lot 305/-/DP 1185016  
**Council:** MID-WESTERN REGIONAL COUNCIL

**Plan:** SHED ELEVATION VIEWS  
 SOUTH-EAST & NORTH-WEST

<b>Drawn:</b> K.R.K	Sheet : 04 05
<b>Date:</b> 16 Mar 2022	
<b>Scale:</b> 1:100 @ A3	
<b>Job No:</b> 220212-SNE	

**Note:** Plans to be printed on A3 to be to scale. Do not scale off plans.  
 All dimensions to be checked and verified on site.



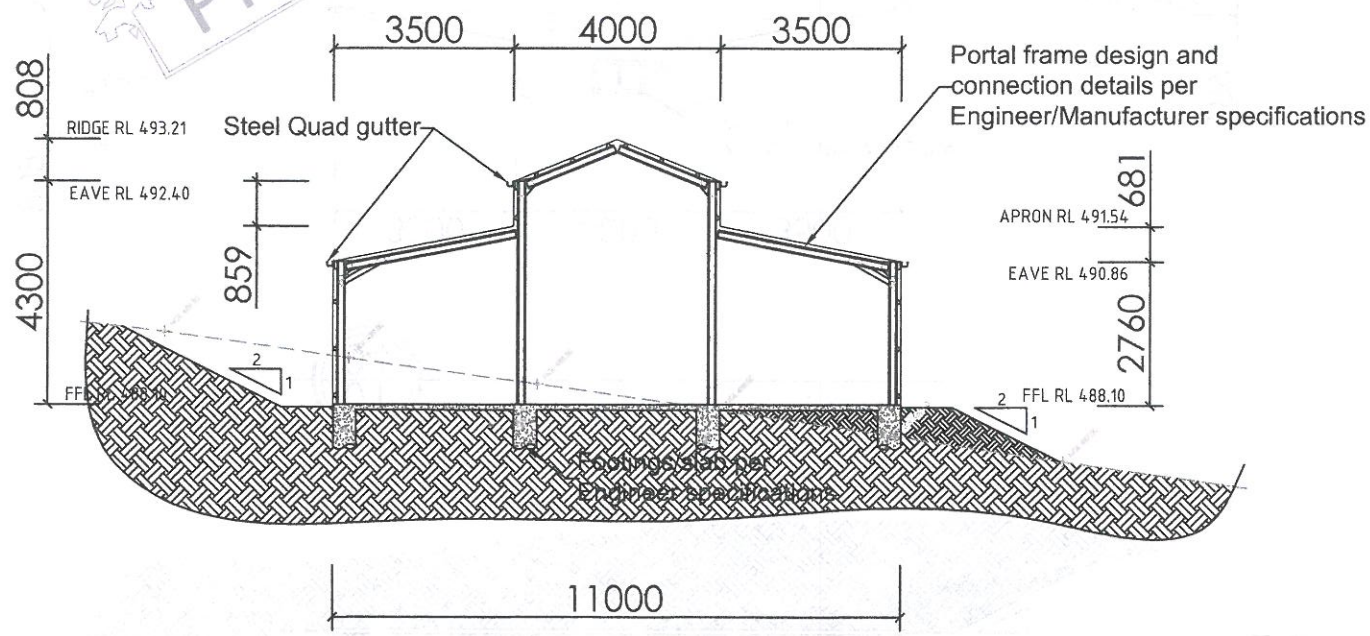
PRELIMINARY PLANS

ISSUED FOR DEVELOPMENT /  
CONSTRUCTION CERTIFICATE PURPOSES

Supplied By:



- All works to be completed in accordance with the performance requirements of the National Construction Code (NCC) 2019 Volume 2 Amendment 1
- Detached Portal Frame Sheds**
- Part 3.1 Site preparation (dealt with in Engineering)**
- Part 3.1.1 Earthworks
  - Part 3.1.2 Earth retaining structures
  - Part 3.1.3 Drainage
- Part 3.2 Footings and slabs (dealt with in Engineering)**
- Part 3.2.2 Preparation
  - Part 3.2.3 Concrete and reinforcing
  - Part 3.2.4 Site classification
  - Part 3.2.5 Footing and slab construction
- Part 3.4 Framing (dealt with in Engineering)**
- Part 3.4.2 Steel framing
  - Part 3.4.4 Structural steel members
- Part 3.5 Roof cladding, gutters and downpipes and wall cladding**
- Part 3.5.1 Sheet roofing
  - Part 3.5.3 Gutters and downpipes
  - Part 3.5.5 Metal wall cladding
- Part 3.9 Safe Movement and Access**
- Part 3.9.1.6 Thresholds
- Part 3.10 Ancillary Provisions and Additional Construction Requirements (dealt with in Engineering)**
- Part 3.10.2 Earthquake areas
  - Part 3.10.5 Construction in bushfire prone areas
- Part 3.6 Glazing**
- Part 3.6.1 Application
  - Part 3.6.2 Glazing sizes and installation
  - Part 3.6.3 Fully framed glazing installed in perimeter of buildings
  - Part 3.6.4 Human impact safety requirements
- Part 3.8 Health and Amenity**
- Part 3.8.1 Wet areas and external waterproofing
  - Part 3.8.2 Room heights



Typical Section Thru - X

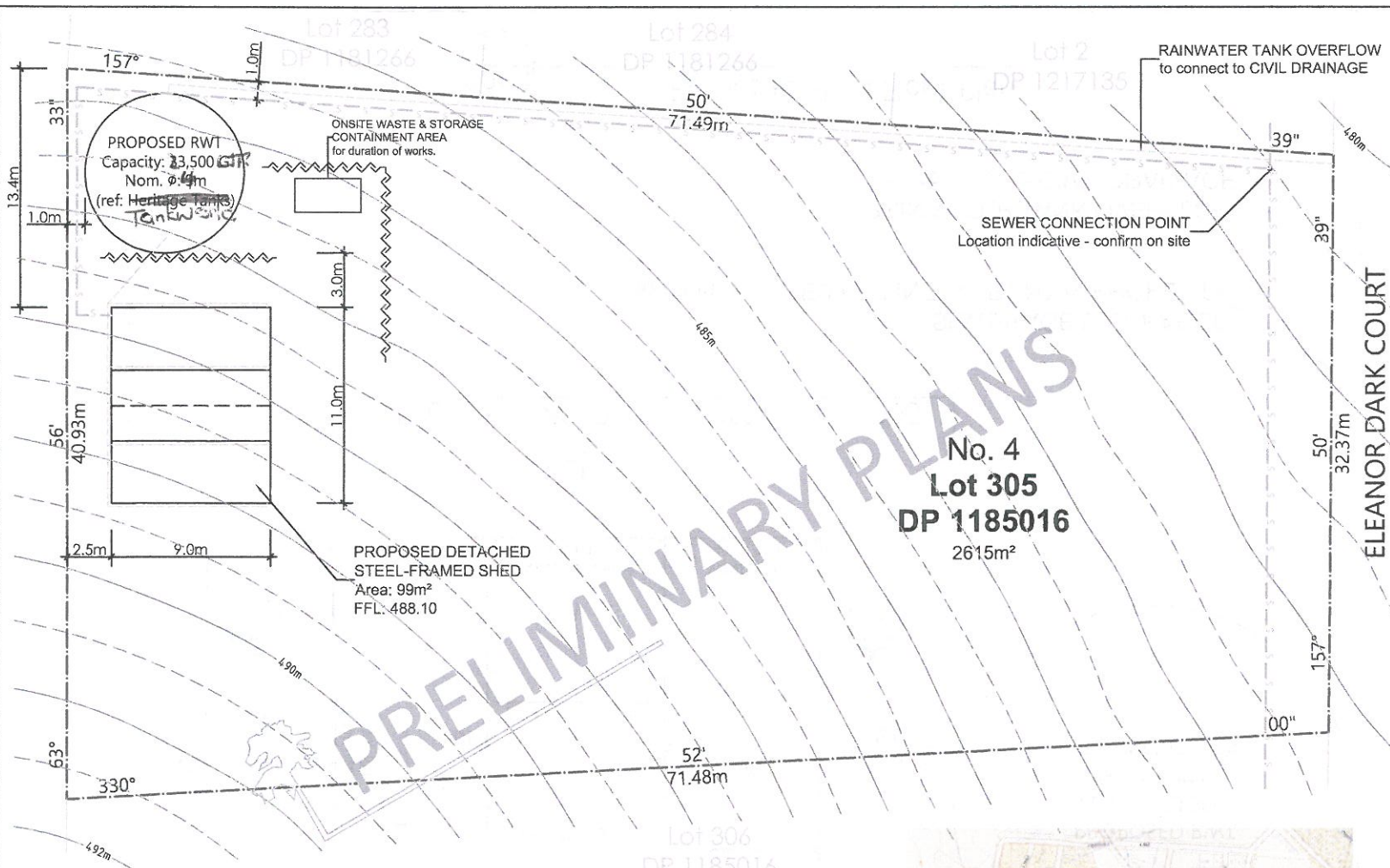
1:100

\*If any Fill is required on Site, Class 'P' site is applicable.

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Proposed:	Steel Frame Shed
Client:	Steve NEELY
Address:	4 Eleanor Dark Court MUDGEE NSW 2850 Lot 305/-/DP 1185016
Council:	MID-WESTERN REGIONAL COUNCIL
Plan:	ELEVATION TYPICAL SECTION
Drawn:	K.R.K
Date:	16 Mar 2022
Scale:	1:100 @ A3
Job No:	220212-SNE
Sheet:	03 05

Note: Plans to be printed on A3 to be to scale. Do not scale off plans. All dimensions to be checked and verified on site.



Area Ratios: Property Size = 2615m <sup>2</sup>
Proposed Steel Frame Shed = 99m <sup>2</sup> (3.8%)
Existing Structures approx. = 0m <sup>2</sup> (0%)
Free space Approx. = 2516m <sup>2</sup> (96.2%)

**SEDIMENT TRAPPING DEVICES.**

**SEDIMENT FENCES:**   
**DESCRIPTION:**  
 A sediment fence (also known as a silt fence) is a temporary barrier of geotextile filter or fabric, usually supported by steel mesh and steel posts.

**DESIGN LIMITATIONS:**  
 Sediment Fences have the following design limits:  
 \*\* The area draining to the fence is 0.6ha or less.  
 \*\* The maximum slope length behind the fences 60m.

**PURPOSE:**  
 Sediment fences filter runoff, trapping the sediment and allowing filtered water to pass through.

**INSTALLATION:**  
 Sediment fences should have a stable outlet or overflow point in case the flow rates exceed their capacity to filter the water.

**MAINTENANCE:**  
 After each rain event check for undercutting, sagging and overtopping, and repair immediately. Sediment collected should be removed from site.



**01** Site Plan  
1:250

**02** Locality Map  
NTS

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**Proposed:** Steel Frame Shed  
**Client:** Steve NEELY  
**Address:** 4 Eleanor Dark Court MUDGEES NSW 2850  
 Lot 305/-/DP 1185016  
**Council:** MID-WESTERN REGIONAL COUNCIL

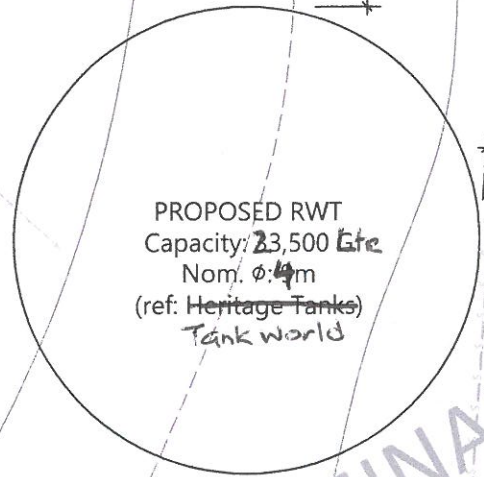
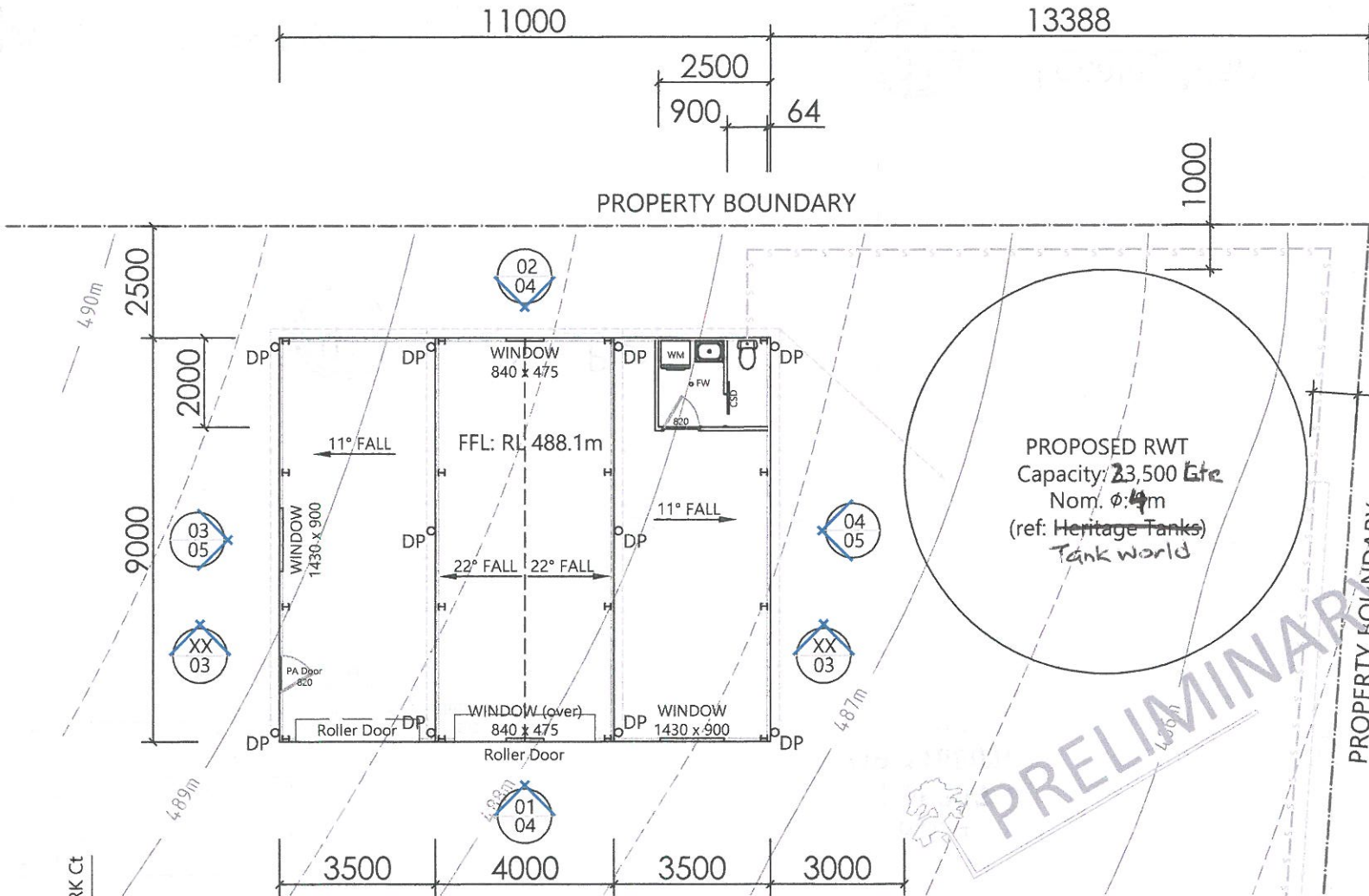
<b>Plan:</b> SITE PLAN		
<b>Drawn:</b> K.R.K	<b>Sheet:</b>	
<b>Date:</b> 16 Mar 2022	<b>Of:</b>	<b>02</b>
<b>Scale:</b> 1:250 @ A3		<b>05</b>
<b>Job No:</b> 220212-SNE		

**Note:** Plans to be printed on A3 to be to scale. Do not scale off plans. All dimensions to be checked and verified on site.

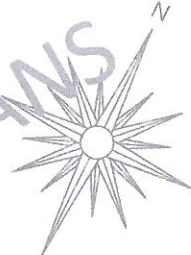


**EASEMENTS and/or UNDERGROUND SERVICES**  
 No easements or services noted on survey provided.  
 Thorough site inspection prior to commencement of works to identify underground services required.

Supplied By:



PRELIMINARY PLANS



SEWERAGE DISCHARGE  
to connect to SEWER LINE at FRONT of PROPERTY

RAINWATER TANK OVERFLOW  
to connect to CIVIL DRAINAGE

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Proposed: Steel Frame Shed  
Client: Steve NEELY  
Address: 4 Eleanor Dark Court MUDGEE NSW 2850  
Lot 305-/DP 1185016  
Council: MID-WESTERN REGIONAL COUNCIL  
Plan: FLOOR PLAN

Drawn: K.R.K. Sheet: 04  
Date: 16 Mar 2022 Of: 05  
Scale: 1:100 @ A3  
Job No: 220212-SNE

01 Proposed Shed Floor Plan

Note: Plans to be printed on A3 to be to scale. Do not scale off plans. All dimensions to be checked and verified on site.



Address: PO BOX 5,  
Avondale Heights, Vic 3034  
Phone: 0416 797 422  
Email: info@edcstruct.com.au

Date: 14/06/2021  
Our Ref – 0386095094

**RE: Structural Certification of Shed  
For Steve Neely**

To whom it may concern

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

- Steel Framed Shed

The drawings referenced in this certification are

<p>0386095094 pages 1 to 6 (14/06/2021) Engineering Schedule page 1 (14/06/2021)</p>
--

I have relied on the following reference documents

- AS 1170.0 General Principals (2002)
- AS 1170.1 Permanent & Other Actions (2002)
- AS 1170.4 Earthquake Loads (2007)
- AS 4100 Steel Structures Code (1998)
- AS 4600 Cold Formed Section Code (2005)
- Building Code of Australia Volume 1 & 2 (as applicable)
  - Clause C1.11 and Specification C1.11 of the BCA 2015

Yours faithfully,

