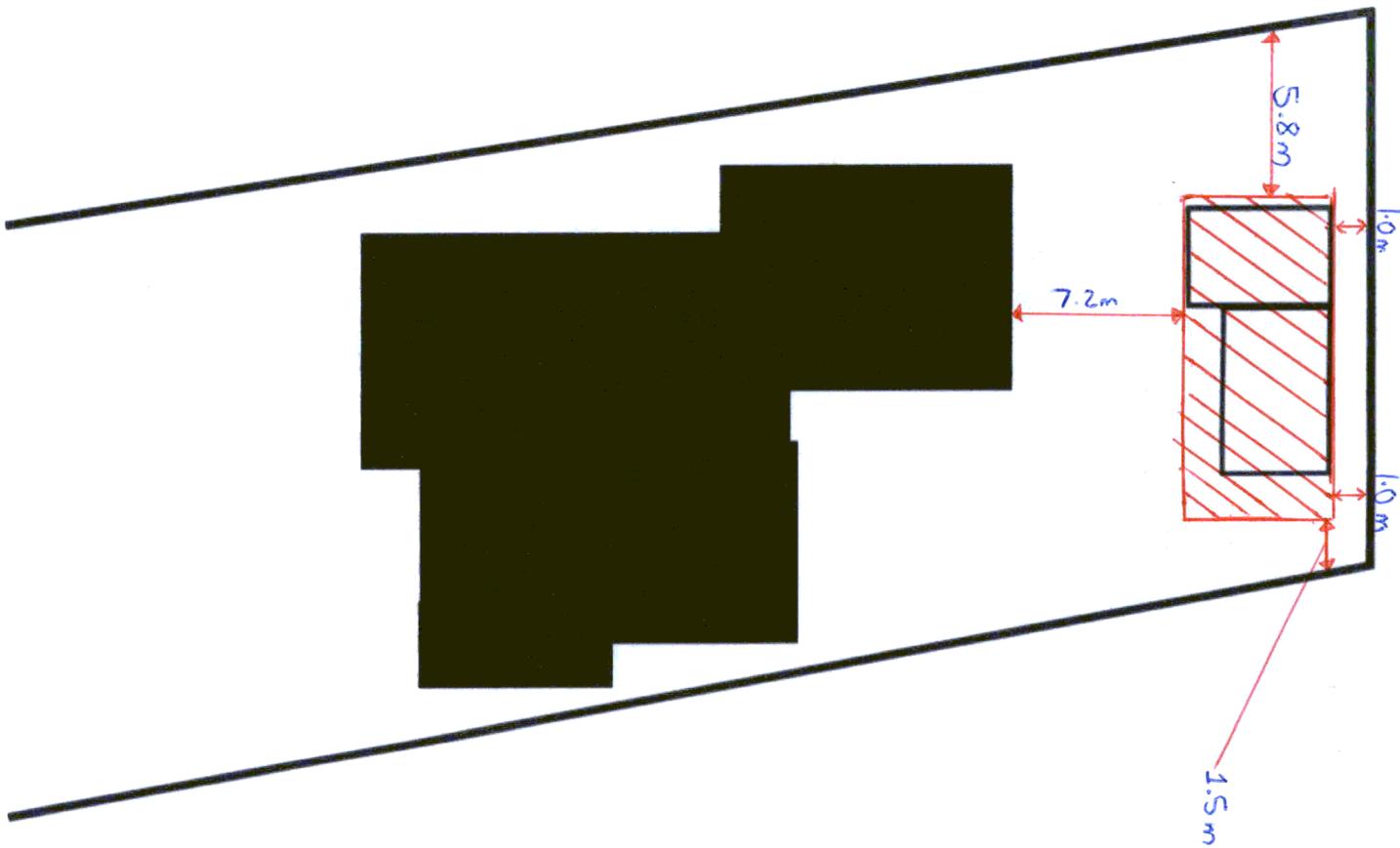


- 06 HARROD STREET, VILLAGEE -
- correct paperwork has been submitted as pool and existing shed have been ~~removed~~ bulldozed.

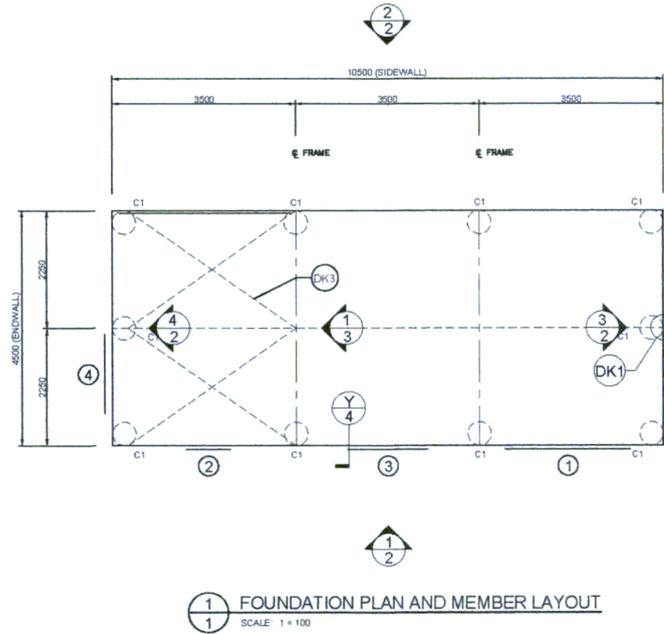
06 HARROD STREET, WILLAGEE.



 - Proposal for 10.5m x 4.5m x 3.0m shed  
(Existing shed and pool ~~have~~ as seen on Google earth have been demolished, council paperwork already submitted)

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IF IN DOUBT, ASK.



ROOF STRAP BRACING TO BE CONNECTED TO THE PURLIN CLOSEST TO THE LINE OF THE END WALL MULLION

MEMBER LEGEND

C1	C15012
----	--------

1 OF 6	SHEET
	JOB NO. PER150636
DATE 24/3/2021	DATE 2016
CHECKED TM	DRAWN FDS

STEEL BUILDING BY (CONTACT)  
**WESTERN SHEDS PTY LTD**  
08 94178880  
FOR **PADDY BAKER**  
AT **6 HARROD STREET WILLAGEE**



**NORTHERN CONSULTING engineers**  
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Currajong, Qld 4812  
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Email: design@nceng.com.au  
ABN 341 008 173 56

Registered Chartered Professional Engineer  
Registered Professional Engineer (Civil & Structural) QLD  
Registered Consulting Engineer (Structural) N.T.  
Registered Engineer - (CIVIL) VIC  
Registered Engineer - (CIVIL) TAS

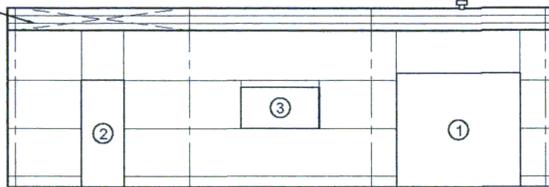
Regn. No. 2568980  
Regn. No. 5985  
Regn. No. 116373ES  
Regn. No. EC36692  
Regn. No. CC5648M

Mr Timothy Roy Messer BE MIEAust RPEQ  
Signature *T. Messer*  
Date 24/3/2021  
Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register

DO NOT SCALE THIS DRAWING. USE FIGURED DIMENSIONS ONLY. ALL DIMENSIONS TO BE VERIFIED ON SITE.

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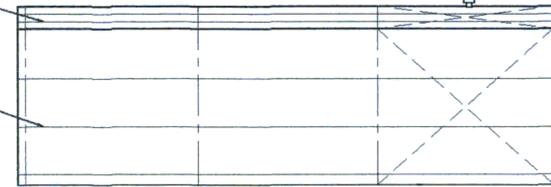
ROOF PURLINS PER MEMBER SCHEDULE ON SHEET 5



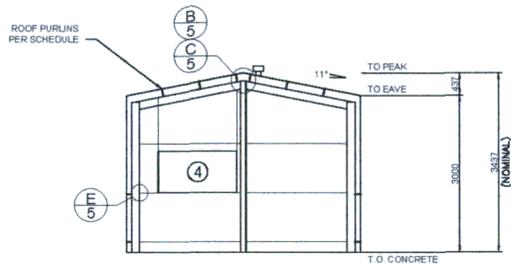
1 SIDEWALL EXTERIOR ELEVATION  
2 SCALE: 1 = 100

ROOF PURLINS PER MEMBER SCHEDULE ON SHEET 5

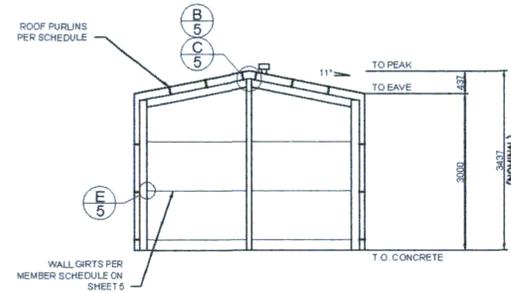
SIDEWALL GRTS PER MEMBER SCHEDULE ON SHEET 5



2 SIDEWALL EXTERIOR ELEVATION  
2 SCALE: 1 = 100



4 ENDWALL INTERIOR ELEVATION  
2 SCALE: 1 = 100



3 ENDWALL INTERIOR ELEVATION  
2 SCALE: 1 = 100

X BRACING IS REQUIRED IN 1 SIDE BAY(S) AND 1 ROOF BAY(S) (BOTH SIDES).

2 OF 6 SHEET	JOB NO. PERTH06936	DATE 24/3/2021	CHECKED TJM	DRAWN FDS
	NO. 2016			

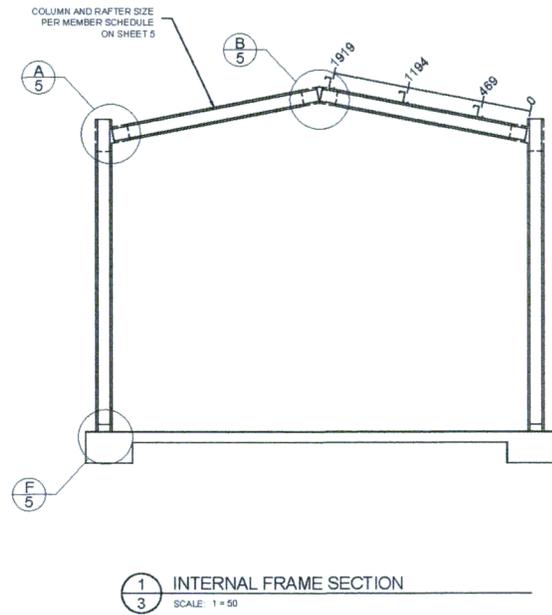
STEEL BUILDING BY (CONTACT)  
**WESTERN SHEDS PTY LTD**  
08 94178880  
**PADDY BAKER**  
6 HARROD STREET  
WILLAGEE



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Registered Professional Engineer (Civil & Structural) QLD  
Regn. No. 3985  
Registered Certifying Engineer (Structural) N.T.  
Regn. No. 116372ES  
Registered Engineer - (Civil) VIC  
Regn. No. EC-56692  
Registered Engineer - (Civil) TAS  
Regn. No. CC-5648M

Mr Timothy Roy Messer BE MIEAust RPEQ  
Signature *T. Messer*  
Date 24/3/2021  
Registered on the NPER in the areas of practice  
of Civil & Structural National Professional  
Engineers Register

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Refer to Sheet #4 for concrete specification.

3 OF 6	SHEET
	JOB NO. PERH50636
DATE 24/3/2021	CHECKED TM
DRAWN FDS	STEEL BUILDING BY FOR AT

(CONTACT)  
**WESTERN SHEDS PTY LTD**  
 08 94178880  
**PADDY BAKER**  
 6 HARROD STREET  
 WILLAGEE



**NORTHERN CONSULTING**  
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 Registered Engineer - (Civil) VIC  
 Registered Engineer - (Civil) TAS

Regn. No. 2258980  
 Regn. No. 9988  
 Regn. No. 116373ES  
 Regn. No. EC56692  
 Regn. No. CC5648M

Mr Timothy Roy Messer BE MIEAust RPEQ

Signature *T. Messer*

Date 24/3/2021

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**STRUCTURAL GENERAL NOTES**

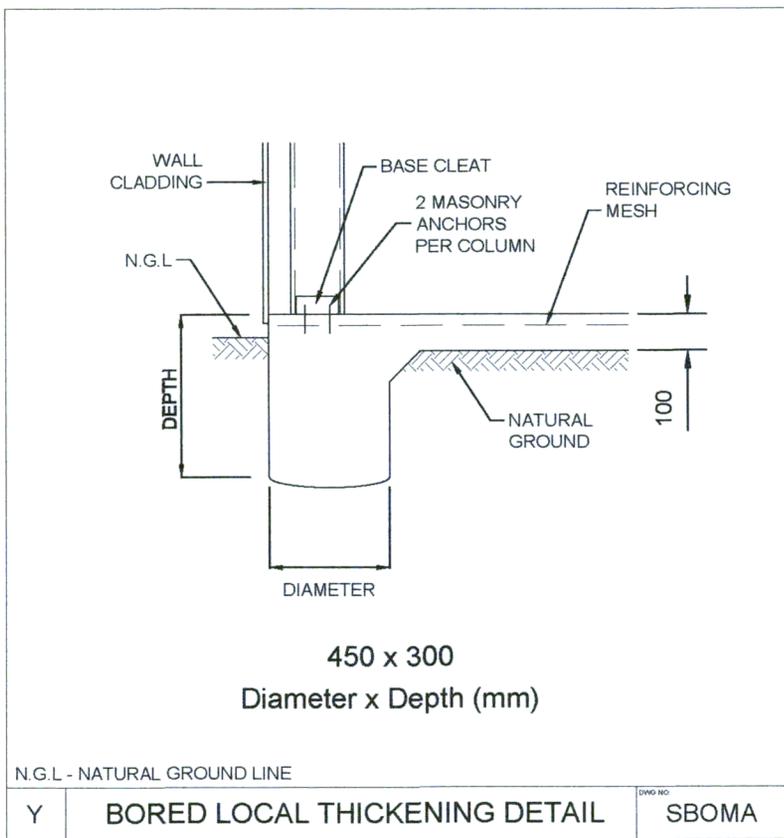
- GOVERNING CODE** : NATIONAL CONSTRUCTION CODE (NCC), LOADING TO AS1170 - ALL SECTIONS, BUILDING SUITABLE AS EITHER A PRIVATE GARAGE CLASS 10a, OR A FARM SHED (CLASS 7 OR 8), UNLESS OTHERWISE SPECIFICALLY NOTED. FOR USE AS A FARM SHED, IT MUST MEET THE FOLLOWING REQUIREMENTS:
  - BE LESS THAN 2000 SQM IN AREA (EXCLUDING ANY MEZZANINE FLOOR AREA)
  - MUST BE LOCATED ON A FARM AND USED IN CONNECTION WITH FARMING PURPOSES.
  - BUILDING IS NOT TO BE OCCUPIED FREQUENTLY NOR FOR EXTENDED PERIODS BY PEOPLE, WITH A MAXIMUM OF 1 PERSON PER 200 SQM OR 2 PERSONS MAXIMUM IN TOTAL, WHICHEVER IS THE LESSER.
- DRAWING CONVENTIONS** : THESE DRAWINGS REMAIN THE PROPERTY OF FBHS (AUST) PTY LIMITED. ENGINEERING SIGNATURE AND CERTIFICATION IS ONLY VALID WHEN BUILDING IS SUPERSEDED BY A DISTRIBUTOR OF FBHS. DRAWINGS ARE PROVIDED FOR THE USE OF PERSONS OF OBTAINING BUILDING PERMITS AND AIDING CONSTRUCTION. ANY OTHER USE OR REPRODUCTION IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM FBHS.
- DRAWING SIGNATURE REQUIREMENTS** : THESE DRAWINGS ARE NOT VALID UNLESS SIGNED BY THE ENGINEER. THE ENGINEER ACCEPTS NO LIABILITY OR RESPONSIBILITY FOR DRAWINGS WITHOUT A SIGNATURE. EACH TITLE BLOCK CONTAINS A WATER MARK UNDER THE CUSTOMER NAME CONTAINING THE DATES OF PRODUCTION OF THE DRAWINGS; THE DRAWINGS ARE TO BE SUBMITTED TO COUNCIL WITHIN 21 DAYS OF THIS DATE. THIS IS TO ENSURE THAT ONLY CURRENT DRAWINGS ARE IN CIRCULATION.
- CONTRACTOR RESPONSIBILITIES** : CERTIFIER AND CONTRACTOR TO CONFIRM (ON SITE) THAT THE WIND LOADINGS APPLIED TO THIS DESIGN ARE TRUE AND CORRECT FOR THE ADDRESS STATED BY THE TITLE BLOCK. CONTRACTOR SHALL VERIFY AND CONFIRM ALL EXISTING CONDITIONS AND DIMENSIONS. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN DRAWINGS AND EXISTING CONDITIONS PRIOR TO START OF WORK. CONTRACTOR MUST NOT MAKE ANY DEVIATION FROM THE PROVIDED PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM ONE OF THE UNDERSIGNED ENGINEERS. THE ENGINEER / FBHS TAKE NO RESPONSIBILITY FOR CHANGES MADE WITHOUT WRITTEN APPROVAL. CONTRACTOR IS RESPONSIBLE FOR ENSURING NO PART OF THE STRUCTURE BECOMES OVERSTRESSED DURING CONSTRUCTION. BUILDING IS NOT STRUCTURALLY ADEQUATE UNTIL THE INSTALLATION OF ALL COMPONENTS AND DETAILS SHOWN IS COMPLETED IN ACCORDANCE WITH THESE DRAWINGS. THE INDICATED DRAWING SCALES ARE APPROXIMATE. DO NOT SCALE DRAWINGS FOR CONSTRUCTION PURPOSES. FOR FURTHER DIRECTIONS ON CONSTRUCTION THE CONTRACTOR SHOULD CONSULT THE APPROPRIATE INSTRUCTION MANUAL.
- ENGINEERING** : THE ENGINEER / FBHS ARE NOT ACTING AS PROJECT MANAGERS FOR THIS DEVELOPMENT, AND WILL NOT BE PRESENT DURING CONSTRUCTION. THE UNDERSIGNED ENGINEERS HAVE REVIEWED THIS BUILDING FOR CONFORMITY ONLY TO THE STRUCTURAL DESIGN PORTIONS OF THE GOVERNING CODE. THE PROJECT MANAGER IS RESPONSIBLE FOR ADDRESSING ANY OTHER CODE REQUIREMENTS APPLICABLE TO THIS DEVELOPMENT. THESE DOCUMENTS ARE ISSUED ONLY AS TO THE COMPONENTS SUPPLIED BY FBHS. IT IS THE RESPONSIBILITY OF THE PURCHASER TO COORDINATE DRAWINGS PROVIDED BY FBHS WITH OTHER PLANS AND/OR OTHER COMPONENTS THAT ARE PART OF THE OVERALL PROJECT. IN CASES OF DISCREPANCIES, THE LATEST DRAWINGS PROVIDED BY FBHS SHALL GOVERN. NO ALTERATIONS TO THIS STRUCTURE (INCLUDING REMOVAL OF CLADDING) ARE TO BE UNDERTAKEN WITHOUT THE CONSENT OF THE CERTIFYING ENGINEER. OPENINGS SUCH AS WINDOWS AND DOORS NEED TO BE INSTALLED AS PER THE PRODUCT MANUFACTURER'S INFORMATION DETAILS.
- INSPECTIONS** : NO SPECIAL INSPECTIONS ARE REQUIRED BY THE GOVERNING CODE ON THIS JOB. ANY OTHER INSPECTIONS REQUESTED BY THE LOCAL BUILDING DEPARTMENT SHALL BE CONDUCTED AT THE OWNER'S EXPENSE.
- SOIL REQUIREMENTS** : SITE CLASSIFICATION TO BE A, B OR M ONLY. SOIL SAFE BEARING CAPACITY VALUE INDICATED ON DRAWING SHEET 4 OCCURS AT 100mm BELOW FINISH GRADE, EXISTING NATURAL GRADE, OR AT FROST DEPTH SPECIFIED BY LOCAL BUILDING DEPARTMENT, WHICHEVER IS THE LOWEST ELEVATION. REGARDLESS OF DETAIL Y ON SHEET 4 THE MINIMUM FOUNDATION DEPTH SHOULD BE 100MM INTO NATURAL GROUND OR BELOW FROST DEPTH SPECIFIED BY LOCAL COUNCIL. ROLLED OR COMPACTED FILL MAY BE USED UNDER SLAB, COMPACTED IN 150mm LAYERS TO A MAXIMUM DEPTH OF 300mm. CONCRETE FOUNDATION EMBEDMENT DEPTHS DO NOT APPLY TO LOCATIONS WHERE ANY UNCOMPACTED FILL OR DISTURBED GROUND EXISTS OR WHERE WALLS OF THE EXCAVATION WILL NOT STAND WITHOUT SUPPLEMENTAL SUPPORT. IN THIS CASE SEEK FURTHER ENGINEERING ADVICE.
- CLASS 10a or Class 7 FOOTING DESIGN** : THE FOUNDATION DOCUMENTED IS ALSO APPROPRIATE FOR CLASS 10a or CLASS 7 BUILDING DESIGNS ON 'H-D', 'H', 'H-D' OR 'E' CLASS SOILS, IF TOTAL SLAB AREA IS UNDER 100m SQUARE AND THE MAXIMUM SLAB DIMENSION (LENGTH AND WIDTH) IS LESS THAN OR EQUAL TO 12m. PLEASE BE AWARE THAT THE SLAB DESIGN FOR H & E CLASS SOILS IN THESE INSTANCES ARE DESIGNED TO EXPERIENCE SOME CRACKING. THIS CRACKING IS NOT CONSIDERED A STRUCTURAL FLAW OR DESIGN ISSUE, AND IS SILENT COMPETE IN NATURE. IF THIS IS A CONCERN TO THE CLIENT IT IS ADVISED THEY DISCUSS OTHER OPTIONS WITH THE RELEVANT DISTRIBUTOR PRIOR TO THE POURING OF THE SLAB.
- CONCRETE REQUIREMENTS** : ALL CONCRETE DETAILS AND PLACEMENT SHALL BE PERFORMED IN ACCORDANCE WITH AS2670 AND AS3600. CONCRETE SHALL HAVE A MIN. 28-DAY STRENGTH OF 20MPa FOR EXPOSURE A1 & B1, 25MPa FOR EXPOSURE A2 & B2 AND 32MPa FOR EXPOSURE C. IN ACCORDANCE WITH SECTION 4, AS3600, CEMENT TO BE TYPE A. MAX AGGREGATE SIZE OF 20mm. SLUMP TO BE 100mm-150mm. SLABS TO BE CURED FOR 7 DAYS BY WETTING OR COVERING WITH A PLASTIC MEMBRANE, AFTER WHICH CONSTRUCTION CAN BEGIN, DUE CARE GIVEN NOT TO OVER-TIGHTEN HOLD DOWN BOLTS. GIVEN ALLOWABLE SOIL TYPES 1 LAYER OF S172 REINFORCING MESH IS TO BE INSTALLED ON STANDARD SLABS WITH A MINIMUM 30MM COVER FROM CONCRETE SURFACE. CONCRETE REINFORCING TO CONFORM TO AS 1302, AS1303 & AS 1304. ALL REINFORCING COVER TO BE A MINIMUM OF 30mm.
- STRUCTURAL STEEL REQUIREMENTS** : ALL STRUCTURAL STEEL, INCLUDING SHEETING THROUGH THINWALL CONCRETE REINFORCING, SHALL CONFORM TO AS 1397 (GAUGE <= 1mm fy = 500MPa, GAUGE > 1mm < 1.5mm fy = 500MPa, GAUGE > 1.5mm fy = 450MPa). NO BENDING IS TO BE PERFORMED ON THIS BUILDING. ALL STRUCTURAL MEMBERS AND CONNECTIONS DESIGNED TO AS4600. ALL BOLT HOLE DIMENSIONS TO STRAWIT GENERAL FINISHINGS.
- FOOT TRAFFIC** : FOR ERECTION AND MAINTENANCE PLEASE NOTE THE FOLLOWING DEFINED FOOT TRAFFIC BOARDS:
  - CORRUGATED: WALK ONLY WITHIN 200MM OF SCREW LINES. FEET STRADDLE OVER AT LEAST TWO RIBS.
  - MONOLAD: WALK ONLY IN BAY, OR ON RIBS AT SCREW LINES.

PROJECT DESIGN CRITERIA	
ROOF LIVE LOAD:	0.25 kPa
BASIC WIND SPEED:	VR 45 m/s
SITE WIND SPEED:	Vs10 30.6 m/s
WIND REGION:	Reg A
TOPOGRAPHY FACTOR, Mt:	1
SHIELDING FACTOR, Ms:	0.82
MAX GROUND SNOW LOAD:	N/A
MAX ROOF SNOW LOAD:	N/A
SITE ALTITUDE:	N/A
TERRAIN CATEGORY:	Tcat 3
SOIL SAFE BEARING CAPACITY:	100 kPa
RETURN PERIOD:	1:500
LIMITING CPI 1:	0-3
LIMITING CPI 2:	0
IMPORTANCE LEVEL:	2

DETAIL KEYS	
(DK1)	ENDWALL VERTICAL MULLION (SEE DETAIL C/S FOR TOP CONN. AND F/S FOR BASE CONN.)
(DK2)	FLYBRACING PER DETAIL L/S
(DK3)	X-BRACING IN ROOF ABOVE (SEE DETAIL M/S)
(DK4)	DOUBLE X-BRACING IN ROOF ABOVE (SEE DETAIL M/S)

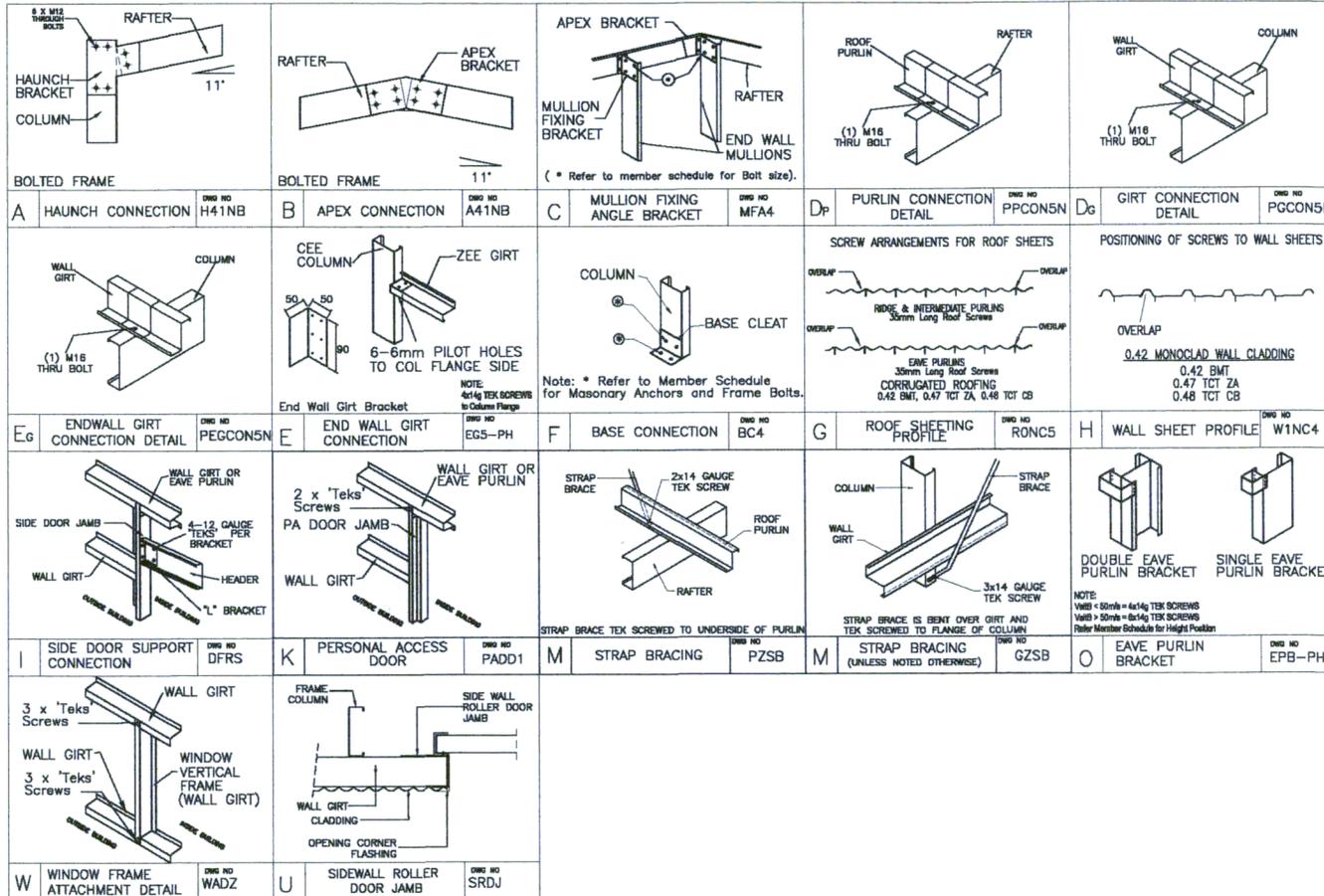
DOOR SCHEDULE						
DOOR	WIDTH	HEIGHT	OPENING TYPE	HEADER GIRT	OPENING JAMBS	WIND RATED
①	2380	2180	2300 x 244 CB SERIES A #	SINGLE	SRDZ10000	N/D
②	820	2040	EXTERNAL PA DOOR 180 DEG	SINGLE		YES
③	1510	750	WINDOW	SINGLE		YES
④	1510	750	WINDOW	SINGLE		YES

NOTES: 1) SEE SHEET 5 FOR DOOR OPENING FRAMING INFORMATION  
 2) ALL DOOR SCHEDULE MEASUREMENTS ARE ACTUAL DOOR/WINDOW SIZE NOT OPENING SIZE  
 \* ROLLER DOOR OPENING HEIGHT DEPENDENT ON FINAL BUILD LOCATION.



4 OF 6 SHEET	JOB NO. PERH50038 NCC 2016	DATE 24/3/2021	CHECKED TM	DRAWN FDS	STEEL BUILDING BY	FOR AT	(CONTACT) <b>WESTERN SHEDS PTY LTD</b> 08 94178880 <b>PADDY BAKER</b> 6 HARROD STREET WILLAGEE	 	 Civil & Structural Engineers 50 Punari Street Currajong, Cld 4812 Fax: 07 4725 5850 Email: design@nceng.com.au ABN 341 008 173 56 Regn. No. 2559980 Regn. No. 3906 Regn. No. 116378E5 Regn. No. EC36692 Regn. No. CC5648M	Mr Timothy Roy Messer BE MIEAust RPEQ  Signature Date 24/3/2021 Registered on the NPFR in the areas of practice of Civil & Structural National Professional Engineers Register
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**MEMBER AND MATERIAL SCHEDULE**

1	END WALL RAFTER	Single C15012
2	C.S. FRAME RAFTER	Single C15012
3	END FRAME COLUMN (C1)	Single C15012
4	C.S. FRAME COLUMN (C1)	Single C15012
5	MULLION (C-1)	Single C15012
6	ANCHOR BOLTS (# PER DETS.)	Sleeve Anchor 12.0x75.2ZY
7	EAVE PURLIN	C10015 (Eave Purlin Bracket 0mm from top of column)
8	TYP. ROOF PURLIN SIZE	Z10010
9	MAIN BLDG. PURLIN SPACING	0.725 m. (3 rows) (Max Allow. 1.003m)
10	MAIN BLDG. PURLIN LENGTH	3.8 m. (0.3m Overlap)
11	TYP. SIDEWALL GIRT SIZE	Z10010
12	MAIN BLDG. SIDEWALL GIRT SPACING	0.916 m. (3 rows) (Max Allow. 1.293m)
13	MAIN BLDG. SIDEWALL GIRT LENGTH	3.8 m. (0.3m Overlap)
14	TYP. ENDWALL GIRT SIZE	Z10010
15	MAIN BLDG. ENDWALL GIRT SPACING	0.943 m. (3 rows) (Max Allow. 1.293m)
16	MAIN BLDG. ENDWALL GIRT LENGTH	2.3 m. (0.3m Overlap)
17	FRAME SCREW FASTENERS	14-13x22 Hex CS (SP HD 5/16" Hex Drive)
18	PURLIN/GIRT FASTENERS	Purlin Assy M12x30 ZP
19	X-BRACING STRAP AND FASTENERS	Single Bracing Strap Per Roll Light
20	WALL COLOUR	CLASSIC_CREAM
21	ROOF COLOUR	CLASSIC_CREAM
22	ROLLER DOOR COLOUR	CLASSIC_CREAM
23	P.A. DOOR COLOUR	CLASSIC_CREAM
24	WINDOW COLOUR	CLASSIC_CREAM
25	ROOF VENT COLOUR	CLASSIC_CREAM
26	DOWNPIPE COLOUR	CLASSIC_CREAM
27	GUTTER COLOUR	CLASSIC_CREAM
28	CORNER FLASHING COLOUR	CLASSIC_CREAM
29	BARGE FLASHING COLOUR	CLASSIC_CREAM
30	OPENING FLASHING COLOUR	CLASSIC_CREAM
31	OPEN BAY HEADER HEIGHT	0.5

\*C.S.\* = CLEARSPAN "L" = LEFT "R" = RIGHT



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ABN 341 008 173 56

Mr Timothy Roy Messer BE MIEAust RPEQ  
Signature: *T. Messer*  
Date: 24/3/2021  
Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register

STEEL BUILDING BY (CONTACT)  
**WESTERN SHEDS PTY LTD**  
08 94178880  
**PADDY BAKER**  
6 HARROD STREET  
WILLAGEE

5 OF 6 SHEETS  
JOB NO. PERH50636  
DATE 24/3/2021  
CHECKED TM  
DRAWN FDS  
FOR AT  
STEEL BUILDING BY

Registered Chartered Professional Engineer  
Registered Professional Engineer (Civil & Structural) QLD  
Registered Certifying Engineer (Structural) N.T.  
Registered Engineer - (Civil) VIC  
Registered Engineer - (Civil) TAS

Regn. No. 2556980  
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**NOTES:**

**BRACING MATERIALS** - THE SHED ERECTOR TO SUPPLY SPECIFIC BRACING. SUITABLE RIGID MEMBERS CAPABLE OF TENSION AND COMPRESSION OR OPPOSING CHAINS OR OPPOSING LOAD RATED RATCHET STRAPS TO BE USED. (RIGID BRACING AS SHOWN ON DIAGRAM) ROPE BRACING SUITABLE ONLY FOR SMALLER STRUCTURES IN IDEAL CONDITIONS.

**BRACING LOCATION** - TEMPORARY BRACING TO BE ERECTED AS CLOSE TO 45 DEGREE ANGLE AND FIXED TO THE TOP OF THE COLUMN OR MULLION TO ACHIEVE THE OPTIMUM EFFECTIVENESS. IF THERE IS NOT ENOUGH SPACE FOR A 45 DEGREE ANGLE, THEN 20 DEGREE ANGLE IS TO BE THE MINIMUM ANGLE ALLOWED (REFER TO DIAGRAM). RIGID TEMPORARY BRACING MEMBER TO BE BOLTED TO HEAVY ANGLE PEGS HAMMERED INTO THE GROUND OR TO A BRACKET, MASONRY WHEN USED) ARE FIXED.

**BRACING REMOVAL** - TEMPORARY BRACING TO REMAIN IN PLACE UNTIL CLADDING IS FULLY INSTALLED WHERE POSSIBLE. IN NO CASE SHOULD TEMPORARY BRACING BE REMOVED UNTIL ALL PURLINS, GIRTS (AND PERMANENT CROSS BRACING WHERE USED) ARE FIXED.

**SITE SAFETY** - DUE CONSIDERATION TO BE GIVEN TO SITE SAFETY IN REGARD TO LOCATIONS OF BRACING AND PEGS.

**GUIDE APPLICATION** - TEMPORARY BRACING AS DESCRIBED IS A MINIMUM REQUIREMENT FOR AN AVERAGE, STANDARD SITE CONDITION. PROVIDE ADDITIONAL BRACING FOR MORE SEVERE AND/OR HIGH EXPOSURE SITE CONDITIONS. ADDITIONAL BRACING TO BE USED AS AND WHERE NECESSARY TO ENSURE THAT ENTIRE FRAME IS RIGID THROUGHOUT CONSTRUCTION. RESPONSIBILITY FOR ENSURING STABILITY OF STRUCTURE REMAINS WITH THE BUILDER.

**TILT UP METHOD**  
FOR STRUCTURES UNDER 9M SPAN, LESS THAN 3M HIGH AND LESS THAN 12M LONG

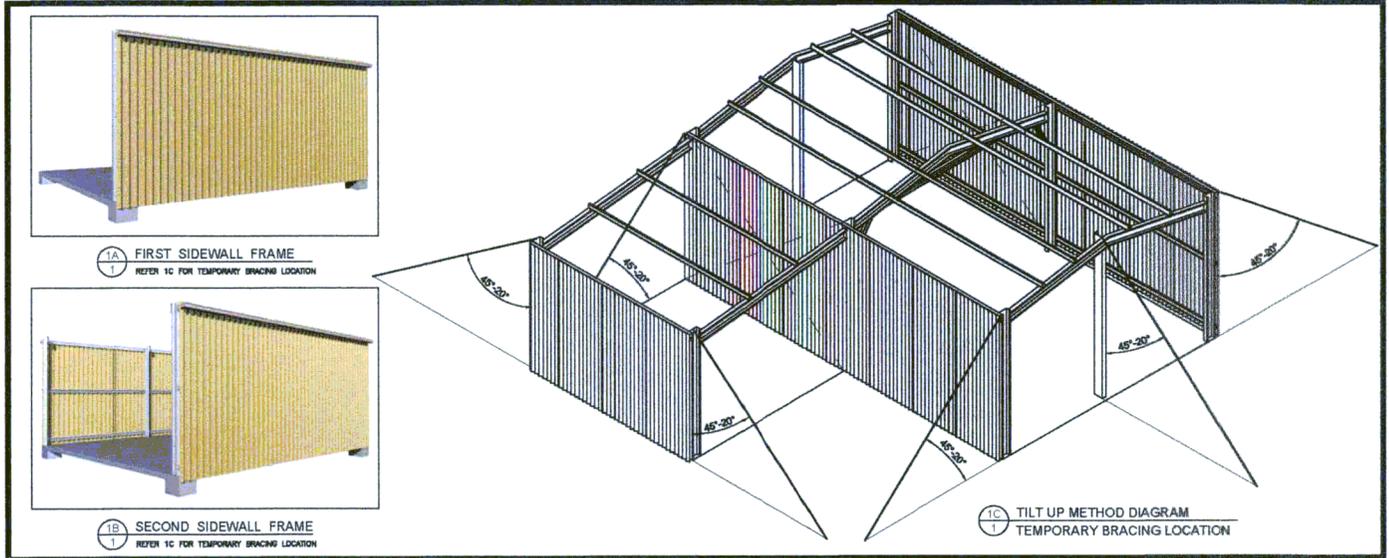
- A. ASSEMBLE THE FIRST SIDEWALL FRAME (COMPLETE WITH WALL SHEETING, BRACING AND GUTTER) ON THE GROUND AND LIFT ASSEMBLED SIDEWALL FRAME INTO POSITION. FIX OFF TEMPORARY SIDE BRACING TO EACH END (REFER TO DIAGRAM). FIX BASE CLEATS.
- B. ASSEMBLE THE SECOND SIDEWALL FRAME AS PER FIRST SIDEWALL FRAME. LIFT INTO POSITION. FIX OFF TEMPORARY WALL BRACING TO EACH END (REFER TO DIAGRAM) FIX BASE CLEATS.
- C. FIX GABLE END RAFTERS TO COLUMNS TO TIE WALLS. PROP APEX UNTIL ENDWALL MULLION AND APEX TEMPORARY BRACE ARE FIXED OFF. IF NO MULLION IS REQUIRED THEN PROP AND BRACE APEX UNTIL CLADDING IS COMPLETE.
- D. INSTALL REMAINING RAFTERS. AS EACH RAFTER PAIR IS INSTALLED, AT LEAST ONE PURLIN PER 3M OF RAFTER LENGTH IS TO BE INSTALLED TO SECURE RAFTERS.
- E. INSTALL REMAINING PURLINS
- F. INSTALL KNEE AND APEX BRACES IF AND WHERE APPLICABLE.
- G. REPEAT FOR LEANTO'S.

**FRAME FIRST METHOD**  
FOR STRUCTURES OVER 9M SPAN, GREATER THAN 3M HIGH AND GREATER THAN 12M LONG

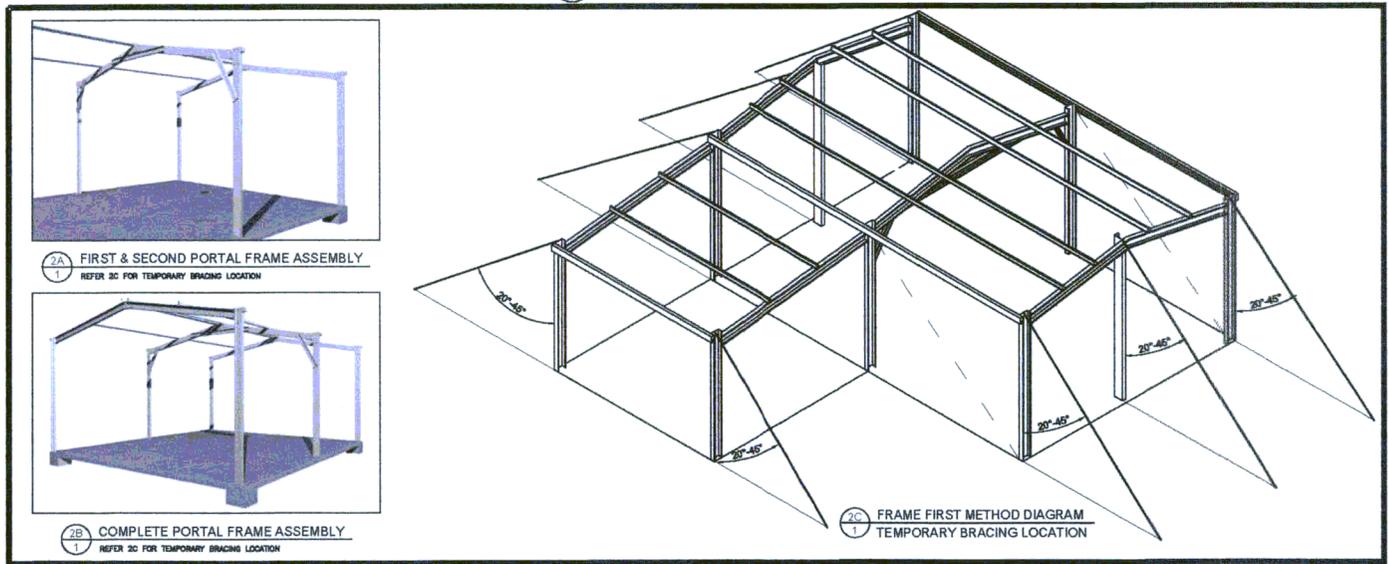
- A. ASSEMBLE PORTAL FRAMES ON THE GROUND (WITH KNEE AND APEX BRACES IF AND WHERE APPLICABLE). LIFT THE FIRST PORTAL FRAME ASSEMBLY INTO POSITION. FIX OFF TEMPORARY END BRACING (REFER TO DIAGRAM). FIX BASE CLEATS.
- B. PROP APEX UNTIL ENDWALL MULLION AND APEX TEMPORARY BRACE ARE FIXED OFF. IF NO MULLION IS REQUIRED THEN PROP AND BRACE APEX UNTIL CLADDING IS COMPLETE.
- C. THE SECOND PORTAL FRAME ASSEMBLY TO BE LIFTED INTO POSITION. FIX EAVE PURLINS AND AT LEAST ONE PURLIN PER 3M OF RAFTER TO SECURE FRAME ASSEMBLY. FIX BASE CLEATS. FIX TEMPORARY SIDEWALL BRACING.
- D. STAND REMAINING PORTAL FRAME ASSEMBLY AS PER STEP C, FIXING TEMPORARY SIDE WALL BRACING TO EVERY SECOND BAY. BRACE OTHER END PORTAL FRAME AS PER FIRST PORTAL FRAME.
- E. INSTALL REMAINING PURLINS AND GIRTS.
- F. REPEAT FOR LEANTO'S.

# GUIDE TO THE INSTALLATION OF TEMPORARY BRACING

(REFER TO INSTALLATION GUIDE MANUAL FOR THE TWO METHODS OF CONSTRUCTION)



1 TILT UP METHOD DIAGRAM  
SCALE: NTS



2 FRAME FIRST METHOD DIAGRAM  
SCALE: NTS

6	OF	SHEET	JOB NO.	DATE	CHECKED	DRAWN	STEEL BUILDING BY
			PER/H06036	24/02/201	TM	FDS	
6	OF	SHEET	N/C				FOR
			2016				AT

(CONTACT)  
**WESTERN SHEDS PTY LTD**  
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**PADDY BAKER**  
 6 HARROD STREET  
 WILLAGEE

**fair dinkum**  
SHEDS

**NORTHERN CONSULTING**  
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Registered Chartered Professional Engineer  
 Registered Professional Engineer (Civil & Structural) QLD  
 Registered Certifying Engineer (Structural) N.T.  
 Registered Engineer - (Civil) VIC  
 Registered Engineer - (Civil) TAS

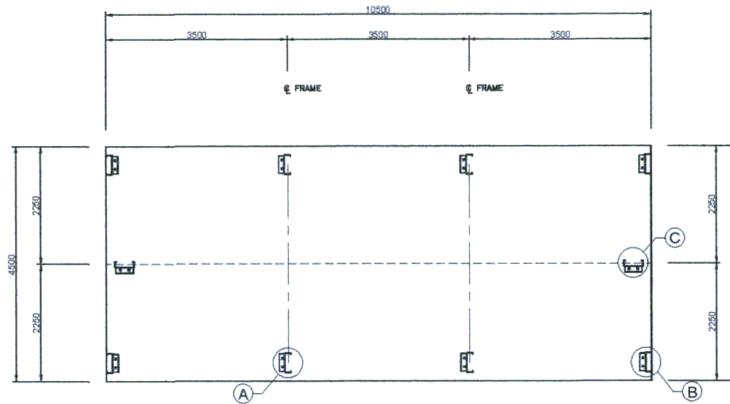
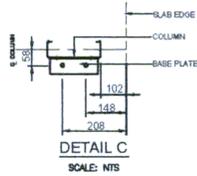
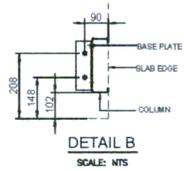
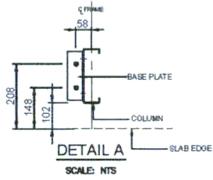
Mr Timothy Roy Messer BE MIEAust RPEQ

Signature *T. Messer*

Date 24/3/2021

Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register

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**1 BOLT LAYOUT PLAN**  
SCALE: 1 = 100

NOT PART OF COUNCIL APPLICATION DOCUMENTATION

IF YOU HAVE A ROLLER DOOR IN THE GABLE END OF YOUR SHED, CONTACT YOUR DISTRIBUTOR TO SEE IF MULLION NEEDS TO BE ROTATED FOR USE AS A DOOR JAMB.

JOB NO. PERH00636	DATE 24/3/2021	CHECKED TM	DRAWN FDS
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STEEL BUILDING BY  
**WESTERN SHEDS PTY LTD**  
08 94178880  
FOR  
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AT  
6 HARROD STREET  
WILLAGEE

24/3/2021



# BOLT LAYOUT PLAN