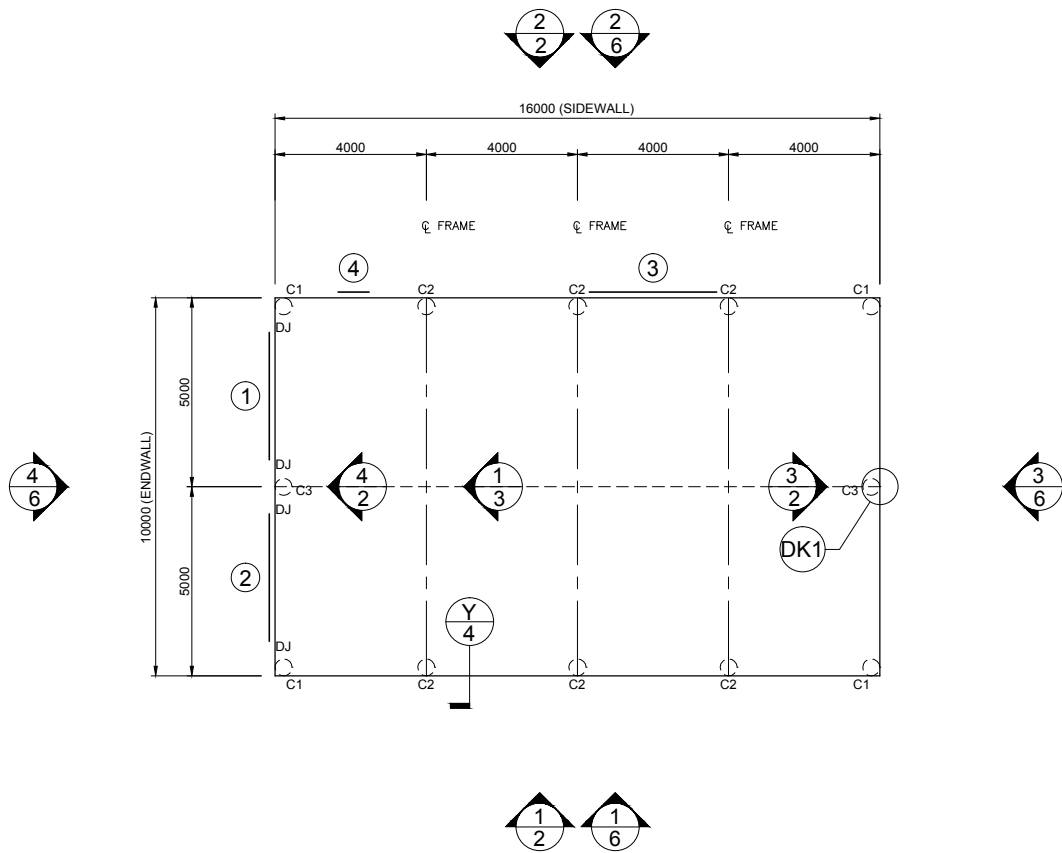


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IF IN DOUBT, ASK.



1 FOUNDATION PLAN AND MEMBER LAYOUT  
SCALE: 1 = 200

MEMBER LEGEND

C1	C15012
C2	C15024
C3	C15015

DJ - INDICATES DOOR JAMBS AT THESE LOCATIONS. REFER TO SHEET #4 ON THE DOOR SCHEDULE FOR SIZES

1 OF 6

SHEET

JOB NO.  
TARE46475

DATE  
6/2/2025

CHECKED  
TM

DRAWN  
FDS

STEEL BUILDING BY  
(CONTACT)  
**STABLE SHEDS & GARAGES**  
PHONE 02 6551 6860  
**MANNING RIVER LIONS DAVID CLARK**  
36 ARKWRIGHT CRESCENT  
TAREE

Civil & Structural Engineers  
50 Punari Street  
Currajong, Qld 4812  
Fax: 07 4725 5850  
Email: design@nceng.com.au  
ABN 341 008 173 56

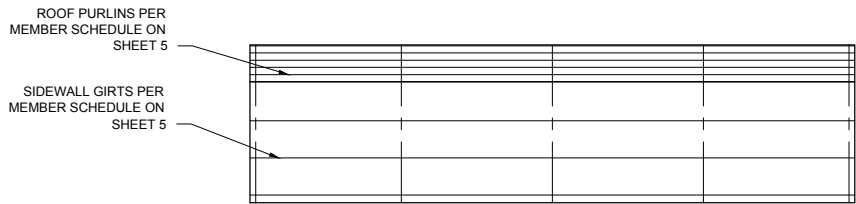
Registered Chartered Professional Engineer  
Registered Professional Engineer (Civil & Structural) QLD  
Registered Certifying Engineer (Structural) N.T.  
Registered Engineer - (Civil) VIC  
Registered Engineer - (Civil) TAS

Regn. No. 2558980  
Regn. No. 9985  
Regn. No. 116373ES  
Regn. No. PE0002216  
Regn. No. CC5648M

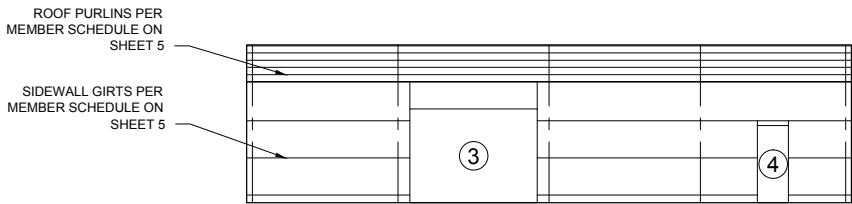
Mr Timothy Roy Messer BE MIEAust RPEQ  
Signature .....  
Date ..... 6/2/2025  
Registered in the NPER in the areas of practice  
of Civil & Structural National Professional  
Engineers Register

**PRELIMINARY ONLY**

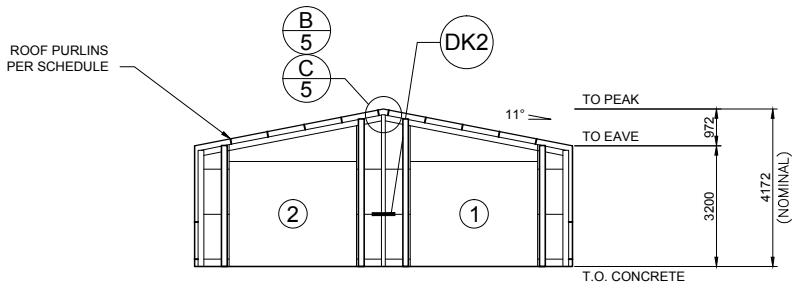
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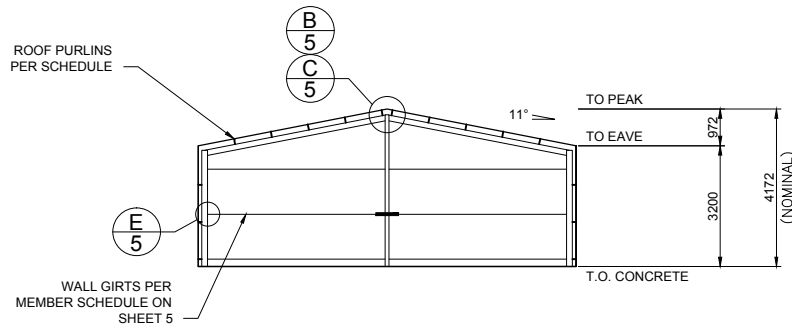
1 SIDEWALL EXTERIOR ELEVATION  
2 SCALE: 1 = 200



2 SIDEWALL EXTERIOR ELEVATION  
2 SCALE: 1 = 200



4 ENDWALL INTERIOR ELEVATION  
2 SCALE: 1 = 200

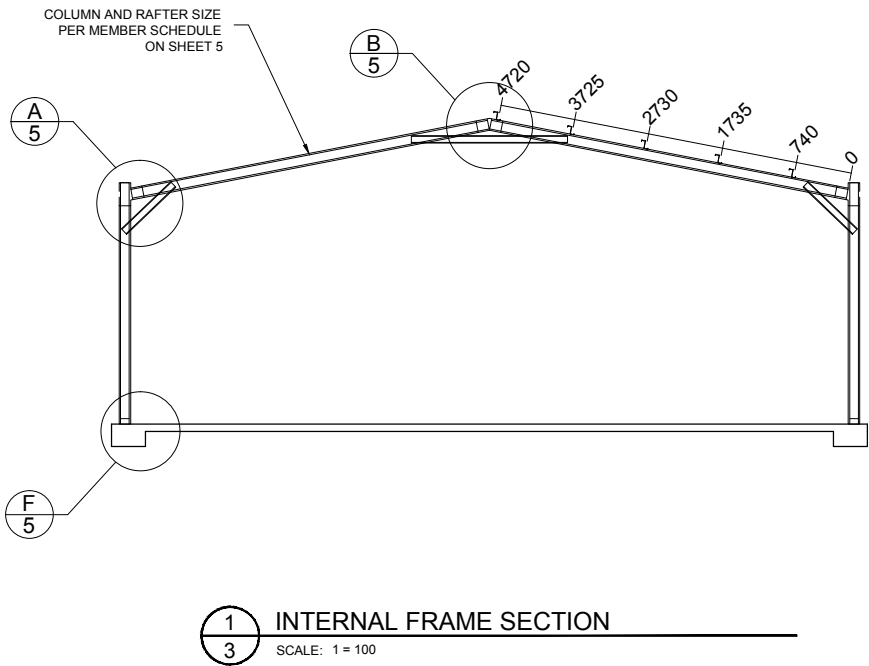


3 ENDWALL INTERIOR ELEVATION  
2 SCALE: 1 = 200



DIAGONAL X BRACING NOT REQUIRED IN THIS BUILDING.  
CLADDING DIAPHRAGM SUFFICIENT. FLY BRACING IS INCLUDED TO BE PLACED ON EVERY SECOND PURLIN AND GIRT ON ENDWALL MULLIONS, INTERNAL COLUMNS AND INTERNAL RAFTERS.

2 OF 6	SHEET	JOB NO. TARE46475	DATE 6/2/2025	CHECKED TM	DRAWN FDS	STEEL BUILDING BY <b>STABLE SHEDS &amp; GARAGES</b> (CONTACT) PHONE 02 6551 6860 <b>MANNING RIVER LIONS DAVID CLARK</b> 36 ARKWRIGHT CRESCENT TAREE		 Civil & Structural Engineers 50 Punari Street Currajong, Qld 4812 Fax: 07 4725 5850 Email: design@nceng.com.au ABN 341 008 173 56 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. 2558980 Regn. No. 9985 Regn. No. 116373ES Regn. No. PE0002216 Regn. No. CC5648M	Mr Timothy Roy Messer BE MIEAust RPEQ Signature ..... Date ..... 6/2/2025 Registered in the NPER in the areas of practice of Civil & Structural National Professional Engineers Register
		NCC TARE46475 2022							

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Refer to Sheet #4 for concrete specification.

3 OF 6	SHEET	JOB NO. TARE46475	DATE 6/2/2025	CHECKED TM	DRAWN FDS	STEEL BUILDING BY (CONTACT) <b>STABLE SHEDS &amp; GARAGES</b> PHONE 02 6551 6860 <b>MANNING RIVER LIONS DAVID CLARK</b> 36 ARKWRIGHT CRESCENT TAREE		 Civil & Structural Engineers 50 Punari Street Currajong, Qld 4812 Fax: 07 4725 5850 Email: design@nceng.com.au ABN 341 008 173 56 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. 2558980 Regn. No. 9985 Regn. No. 116373ES Regn. No. PE0002216 Regn. No. CC5648M	Mr Timothy Roy Messer BE MIEAust RPEQ Signature ..... Date ..... 6/2/2025 Registered in the NPER in the areas of practice of Civil & Structural National Professional Engineers Register
		NCC 2022								

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STRUCTURAL GENERAL NOTES

1.

**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 (INCLUSIVE OF 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.
2.

**DRAWING OWNERSHIP** : THESE DRAWINGS REMAIN THE PROPERTY OF FBHS (AUST) PTY LIMITED. ENGINEERING SIGNATURE AND CERTIFICATION IS ONLY VALID WHEN BUILDING IS SUPPLIED BY A DISTRIBUTOR OF FBHS. DRAWINGS ARE PROVIDED FOR THE DUAL PURPOSE OF OBTAINING BUILDING PERMITS AND AIDING CONSTRUCTION. ANY OTHER USE OR REPRODUCTION IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM FBHS.
3.

**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 CUSTOMERS NAME CONTAINING THE DATE 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.
4.

**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 IN 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 THE UNDERSIGNING 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.
5.

**ENGINEERING** : THE ENGINEER / FBHS ARE NOT ACTING AS PROJECT MANAGERS FOR THIS DEVELOPMENT, AND WILL NOT BE PRESENT DURING CONSTRUCTION. THE UNDERSIGNING 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 STAMPED 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. THE BUILDING IS DESIGNED AS A STAND-ALONE BUILDING, NOT RELYING ON ANY ADJACENT BUILDING. IF THE PERMANENT OPENING IS OBSTRUCTED BY ANY ADJACENT BUILDING AND WITHIN A DISTANCE OF 0.5M OF SAID OPENING, THE DESIGN SHOULD BE REFERRED TO THE DESIGN ENGINEER FOR REVIEW OF INTERNAL PRESSURES AND POSSIBLE REDESIGN.
6.

**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.
7.

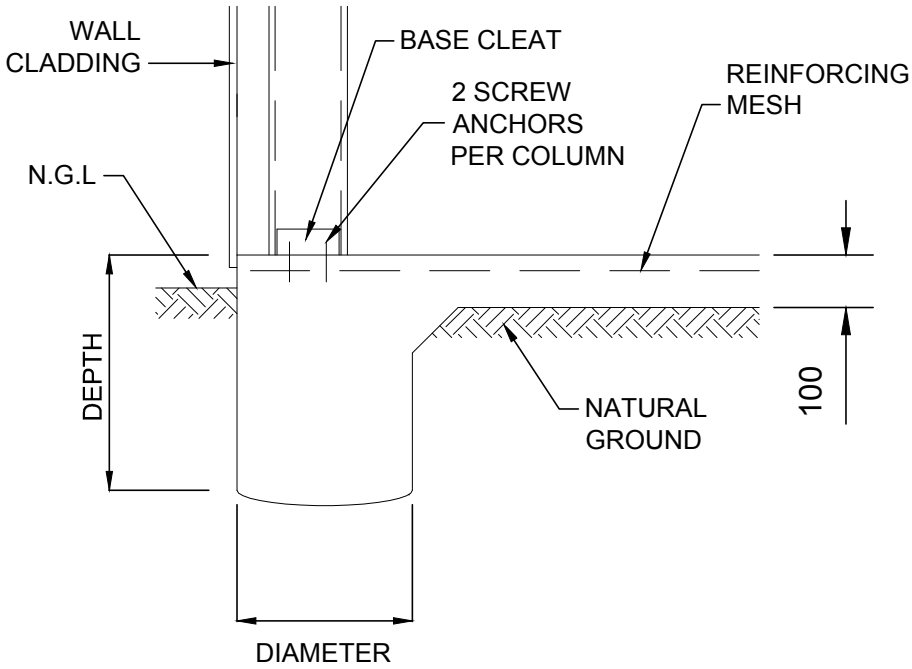
**SOIL REQUIREMENTS** : SITE CLASSIFICATION TO BE A, S OR M ONLY. SOIL SAFE BEARING CAPACITY VALUE INDICATED ON DRAWING SHEET 4 OCCURS AT 100mm BELOW FINISH GRADE, EXISTING NATURAL GRADE, OR AT FROST DEPTH SPECIFIED BY LOCAL BUILDING DEPARTMENT, WHICHEVER IS THE LOWEST ELEVATION. REGARDLESS OF DETAIL 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 900mm. 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.
8.

**CLASS 10a or Class 7 FOOTING DESIGNS**: THE FOUNDATION DOCUMENTED IS ALSO APPROPRIATE FOR CLASS 10a or CLASS 7 BUILDING DESIGNS ON 'M-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 SIMPLY COSMETIC 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.
9.

**CONCRETE REQUIREMENTS** : ALL CONCRETE DETAILS AND PLACEMENT SHALL BE PERFORMED IN ACCORDANCE WITH AS2870 AND AS3600. CONCRETE SHALL HAVE A MIN. 28-DAY STRENGTH OF 20MPa FOR EXPOSURE A1, 25MPa FOR EXPOSURE A2, 32MPa FOR EXPOSURE B1, 40MPa FOR EXPOSURE B2 AND 50MPa FOR EXPOSURE C, IN ACCORDANCE WITH SECTION 4, AS3600. CEMENT TO BE TYPE A. MAX AGGREGATE SIZE OF 20mm. SLUMP TO BE 80mm +/-15mm. SLABS TO BE CURED FOR 7 DAYS BY WATERING 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 SL72 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.
10.

**STRUCTURAL STEEL REQUIREMENTS** : ALL STRUCTURAL STEEL, INCLUDING SHEETING THOUGH EXCLUDING CONCRETE REINFORCING, SHALL CONFORM TO AS 1397 (GAUGE <= 1mm fy = 550MPa, GAUGE > 1mm < 1.5mm fy = 500MPa, GAUGE >= 1.5mm fy = 450MPa). NO WELDING IS TO BE PERFORMED ON THIS BUILDING. ALL STRUCTURAL MEMBERS AND CONNECTIONS DESIGNED TO AS4600. ALL BOLT HOLE DIAMETERS TO STRAMIT GENERAL PUNCHINGS.
11.

**FOOT TRAFFIC** : FOR ERECTION AND MAINTENANCE PLEASE NOTE THE FOLLOWING DEFINED FOOT TRAFFIC ZONES:  
- CORRUGATED: WALK ONLY WITHIN 200MM OF SCREW LINES. FEET SPREAD OVER AT LEAST TWO RIBS.  
- MONOCLAD: WALK ONLY IN PANS, OR ON RIBS AT SCREW LINES.



450 x 300

Diameter x Depth (mm)

N.G.L. - NATURAL GROUND LINE

Y	BORED LOCAL THICKENING DETAIL	DWG NO. SBOMA
---	-------------------------------	---------------

Notifications:

Prelim plans: Please open Site Check and click Request Engineering.

PROJECT DESIGN CRITERIA
ROOF LIVE LOAD: 0.25 kPa
BASIC WIND SPEED: VR 45 m/s
SITE WIND SPEED: VsiB 35.7 m/s
WIND REGION: Reg A2
TOPOGRAPHY FACTOR, Mt: 1
SHIELDING FACTOR, Ms: 1
MAX GROUND SNOW LOAD: N/A
MAX ROOF SNOW LOAD: N/A
SITE ALTITUDE: N/A
TERRAIN CATEGORY: TCat 2.94
SOIL SAFE BEARING CAPACITY: 100 kPa
RETURN PERIOD: 1:500
LIMITING CPI 1: -0.3
LIMITING CPI 2: 0.14
IMPORTANCE LEVEL: 2

DETAIL KEYS
<div>DK1</div> ENDWALL VERTICAL MULLION (SEE DETAIL C/5 FOR TOP CONN. AND F/5 FOR BASE CONN.)
<div>DK2</div> FLYBRACING PER DETAIL L/5
<div>DK3</div> X-BRACING IN ROOF ABOVE (SEE DETAIL M/5)
<div>DK4</div> DOUBLE X-BRACING IN ROOF ABOVE (SEE DETAIL M/5)

SCHEDULE OF OPENINGS						
DOOR	OPENING WIDTH	SIZE MAX HEIGHT	OPENING TYPE	HEADER GIRT	OPENING JAMBS	WIND RATED
①	3370	2780*	2.80H X 3.43 CB *SERIES A #	SINGLE	C15012P	NO
②	3370	2780*	2.80H X 3.43 CB *SERIES A #	SINGLE	C15012P	NO
③	3370	2480*	2.50H X 3.43 CB *SERIES A #	SINGLE	Z15012P	NO
④	820	2040	EXTERNAL PA DOOR 180 DEG	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. TARE46475

NCC 2022

DATE 6/2/2025

CHECKED TM

DRAWN FDS

STEEL BUILDING BY (CONTACT) STABLE SHEDS & GARAGES PHONE 02 6551 6860 MANNING RIVER LIONS DAVID CLARK 36 ARKWRIGHT CRESCENT TAREE

FOR AT

SHED SAFE

Civil & Structural Engineers  
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Fax: 07 4725 5850  
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ABN 341 008 173 56

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. 2558980  
Regn. No. 9985  
Regn. No. 116373ES  
Regn. No. PE0002216  
Regn. No. CC5648M

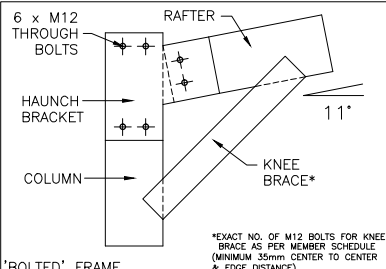
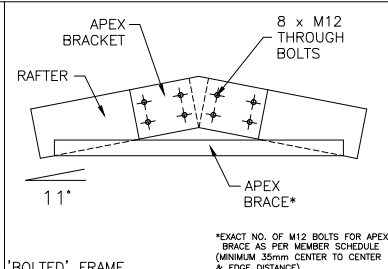
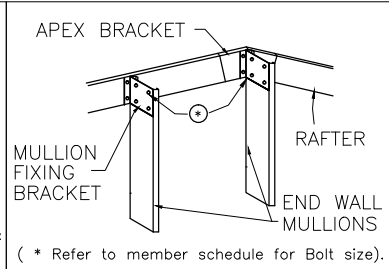
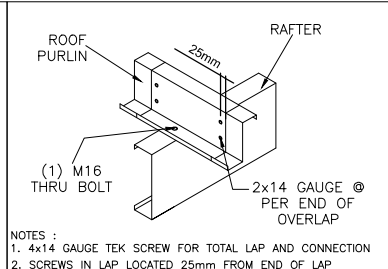
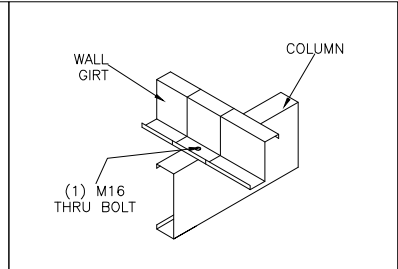
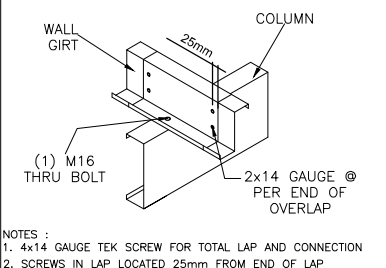
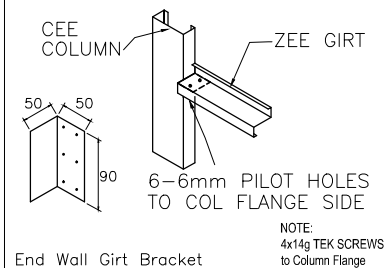
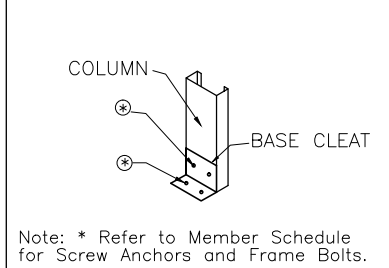
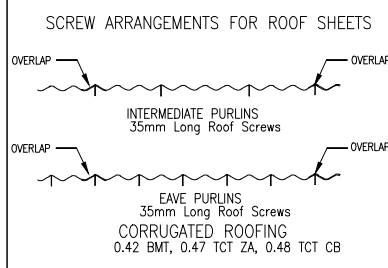
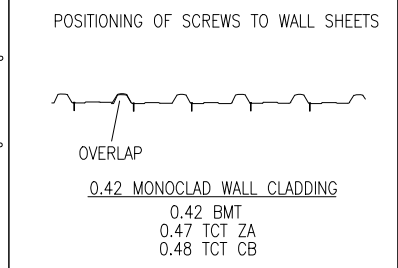
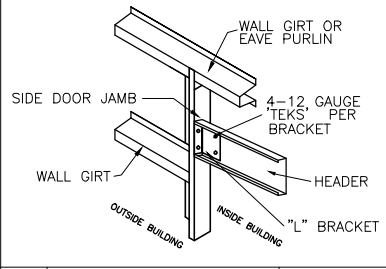
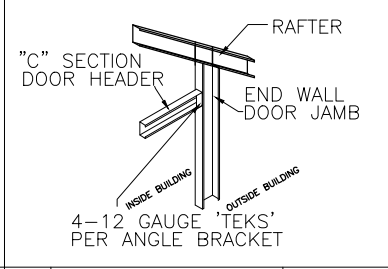
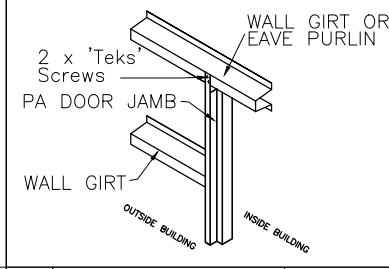
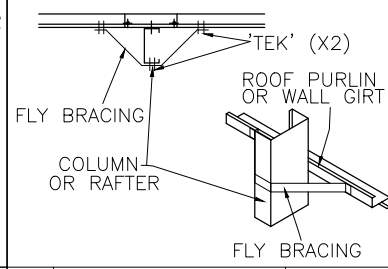
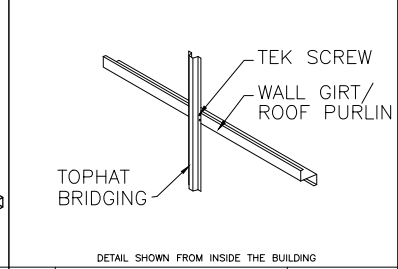
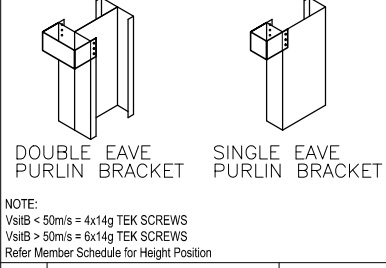
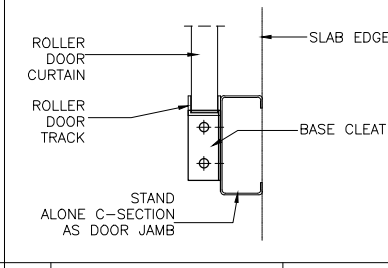
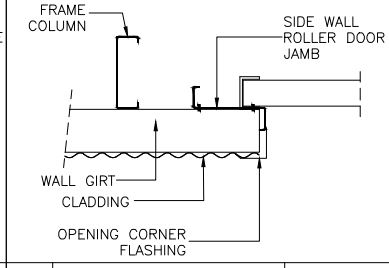
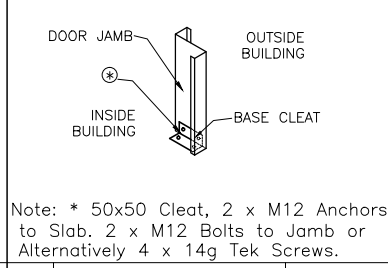
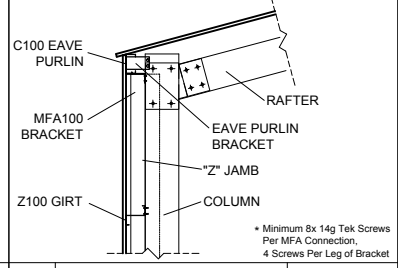
Mr Timothy Roy Messer BE MIEAust RPEQ

Signature .....

Date 6/2/2025

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 <p>6 x M12 THROUGH BOLTS HAUNCH BRACKET COLUMN KNEE BRACE*</p> <p>*EXACT NO. OF M12 BOLTS FOR KNEE BRACE AS PER MEMBER SCHEDULE (MINIMUM 35mm CENTER TO CENTER &amp; EDGE DISTANCE)</p> <p>*EXACT NO. OF M12 BOLTS FOR APEX BRACKET AS PER MEMBER SCHEDULE (MINIMUM 35mm CENTER TO CENTER &amp; EDGE DISTANCE)</p>		 <p>APEX BRACKET 8 x M12 THROUGH BOLTS APEX BRACE*</p> <p>*EXACT NO. OF M12 BOLTS FOR APEX BRACKET AS PER MEMBER SCHEDULE (MINIMUM 35mm CENTER TO CENTER &amp; EDGE DISTANCE)</p>		 <p>APEX BRACKET MULLION FIXING ANGLE BRACKET RAFTER END WALL MULLIONS</p> <p>( * Refer to member schedule for Bolt size).</p>		 <p>ROOF PURLIN 25mm RAFTER (1) M16 THRU BOLT 2x14 GAUGE @ PER END OF OVERLAP</p> <p>NOTES : 1. 4x14 GAUGE TEK SCREW FOR TOTAL LAP AND CONNECTION 2. SCREWS IN LAP LOCATED 25mm FROM END OF LAP</p>		 <p>WALL GIRT COLUMN (1) M16 THRU BOLT</p>	
A HAUNCH CONNECTION DWG NO: K21BB		B APEX CONNECTION DWG NO: AP21BB		C MULLION FIXING ANGLE BRACKET DWG NO: MFA5		Dp PURLIN CONNECTION DETAIL DWG NO: PPCON5L		Dg GIRT CONNECTION DETAIL DWG NO: PGCON5N	
 <p>WALL GIRT 25mm COLUMN (1) M16 THRU BOLT 2x14 GAUGE @ PER END OF OVERLAP</p> <p>NOTES : 1. 4x14 GAUGE TEK SCREW FOR TOTAL LAP AND CONNECTION 2. SCREWS IN LAP LOCATED 25mm FROM END OF LAP</p>		 <p>CEE COLUMN ZEE GIRT 6-6mm PILOT HOLES TO COL FLANGE SIDE</p> <p>NOTE: 4x14g TEK SCREWS to Column Flange</p>		 <p>COLUMN BASE CLEAT</p> <p>Note: * Refer to Member Schedule for Screw Anchors and Frame Bolts.</p>		 <p>SCREW ARRANGEMENTS FOR ROOF SHEETS OVERLAP INTERMEDIATE PURLINS 35mm Long Roof Screws EAVE PURLINS 35mm Long Roof Screws CORRUGATED ROOFING 0.42 BMT, 0.47 TCT ZA, 0.48 TCT CB</p> <p>POSITIONING OF SCREWS TO WALL SHEETS OVERLAP 0.42 MONOCLAD WALL CLADDING 0.42 BMT 0.47 TCT ZA 0.48 TCT CB</p>		 <p>WALL SHEET PROFILE TOP HAT BRIDGING</p> <p>DETAIL SHOWN FROM INSIDE THE BUILDING</p>	
Eg ENDWALL GIRT CONNECTION DETAIL DWG NO: PEGCON5L		E END WALL GIRT CONNECTION DWG NO: EG5-PH		F BASE CONNECTION DWG NO: BC7		G ROOF SHEETING PROFILE DWG NO: RONC3		H WALL SHEET PROFILE DWG NO: W1NC4	
 <p>SIDE DOOR JAMB WALL GIRT HEADER 4-12 GAUGE 'TEKS' PER BRACKET</p>		 <p>"C" SECTION DOOR HEADER RAFTER END WALL DOOR JAMB 4-12 GAUGE 'TEKS' PER 'ANGLE' BRACKET</p> <p>INSIDE BUILDING OUTSIDE BUILDING</p>		 <p>2 x 'TEKS' Screws WALL GIRT OR EAVE PURLIN PA DOOR JAMB WALL GIRT</p> <p>OUTSIDE BUILDING INSIDE BUILDING</p>		 <p>FLY BRACING COLUMN OR RAFTER ROOF PURLIN OR WALL GIRT FLY BRACING</p>		 <p>TEK SCREW WALL GIRT/ ROOF PURLIN TOP HAT BRIDGING</p> <p>DETAIL SHOWN FROM INSIDE THE BUILDING</p>	
I SIDE DOOR SUPPORT CONNECTION DWG NO: DFRS		J SIDE DOOR SUPPORT CONNECTION DWG NO: DFRG		K PERSONAL ACCESS DOOR DWG NO: PADD1		L FLYBRACING DWG NO: FBRZ		N BRIDGING DETAIL DWG NO: PGBZ	
 <p>DOUBLE EAVE PURLIN BRACKET SINGLE EAVE PURLIN BRACKET</p> <p>NOTE: VstIB &lt; 50m/s = 4x14g TEK SCREWS VstIB &gt; 50m/s = 6x14g TEK SCREWS Refer Member Schedule for Height Position</p>		 <p>ROLLER DOOR CURTAIN ROLLER DOOR TRACK SLAB EDGE BASE CLEAT STAND ALONE C-SECTION AS DOOR JAMB</p> <p>* Minimum 8x14g Tek Screws Per MFA Connection, 4 Screws Per Leg of Bracket</p>		 <p>FRAME COLUMN SIDE WALL ROLLER DOOR JAMB WALL GIRT CLADDING OPENING CORNER FLASHING DOOR JAMB</p> <p>Note: * 50x50 Cleat, 2 x M12 Anchors to Slab, 2 x M12 Bolts to Jamb or Alternatively 4 x 14g Tek Screws.</p>		 <p>DOOR JAMB OUTSIDE BUILDING BASE CLEAT</p> <p>Note: * 50x50 Cleat, 2 x M12 Anchors to Slab, 2 x M12 Bolts to Jamb or Alternatively 4 x 14g Tek Screws.</p>		 <p>C100 EAVE PURLIN MFA100 BRACKET RAFTER EAVE PURLIN BRACKET 'Z' JAMB COLUMN Z100 GIRT</p> <p>* Minimum 8x14g Tek Screws Per MFA Connection, 4 Screws Per Leg of Bracket</p>	
O EAVE PURLIN BRACKET DWG NO: EPB-PH		U SINGLE DOORS TO SINGLE ROLLER DOOR JAMB DWG NO: SDSRM		U "Z" SIDEWALL ROLLER DOOR JAMB DWG NO: ZSRDJ		X "Z" SECTION DOOR JAMB BASE CONNECTION DWG NO: ZRDJBC		X "Z" DOOR JAMB EAVE PURLIN CONNECTION DWG NO: ZDJEP100100	

# MEMBER AND MATERIAL SCHEDULE

1	END WALL RAFTER	Single C15012
2	C.S. FRAME RAFTER	Single C15024
3	END FRAME COLUMN (C1)	Single C15012
4	C.S. FRAME COLUMN (C2)	Single C15024
5	MULLION (C3)	Single C15015
6	C.S. FRAME KNEE BRACE	Single C10015 @ 1.05 LONG 3 bolts each end
7	KNEE BRACE HEIGHT UP COLUMN	2.51m
8	KNEE BRACE LENGTH UP RAFTER	0.62m
9	C.S. FRAME APEX BRACE	Single C10015 @ 2.07 LONG 3 bolts each end
10	APEX POSITION FROM RAFTER END	1.02m
11	ANCHOR BOLTS (# PER DETS.)	Screw Anchor 12mm x 100 Galv
12	EAVE PURLIN	C10010 (Eave Purlin Bracket 0mm from top of column)
13	TYP. ROOF PURLIN SIZE	Z10010
14	MAIN BLDG. PURLIN SPACING	0.995 m. (5 rows) (Max Allow. 1.000m)
15	MAIN BLDG. PURLIN LENGTH	4.4 m. (0.4m Overlap)
16	TYP. SIDEWALL GIRT SIZE	Z10010 (1 rows of bridging)
17	MAIN BLDG. SIDEWALL GIRT SPACING	0.983 m. (3 rows) (Max Allow. 1.381m)
18	MAIN BLDG. SIDEWALL GIRT LENGTH	4.3 m. (0.3m Overlap)
19	SIDEWALL GIRT BRIDGING	Tophat 64 x 0.75
20	TYP. ENDWALL GIRT SIZE	Z10010 (1 rows of bridging)
21	MAIN BLDG. ENDWALL GIRT SPACING	1.188 m. (3 rows) (Max Allow. 1.439m)
22	MAIN BLDG. ENDWALL GIRT LENGTH	5.22 m. (0.47m Overlap)
23	ENDWALL GIRT BRIDGING	Tophat 64 x 0.75
24	FRAME SCREW FASTENERS	14-13x22 Hex C/S (SP HD 5/16" Hex Drive)
25	FRAME BOLT FASTENERS	Purlin Assy M12x30 Z/P
26	PURLIN/GIRT FASTENERS	Purlin Assy M16x30 Z/P
27	X-BRACING STRAP AND FASTENERS	Single Bracing Strap Per Roll Light
28	WALL COLOUR	SHALE_GREY
29	ROOF COLOUR	SHALE_GREY
30	ROLLER DOOR COLOUR	IRONSTONE
31	P.A. DOOR COLOUR	IRONSTONE
32	DOWNPIPE COLOUR	N/A - downpipes by others
33	GUTTER COLOUR	IRONSTONE
34	CORNER FLASHING COLOUR	IRONSTONE
35	BARGE FLASHING COLOUR	IRONSTONE
36	OPENING FLASHING COLOUR	IRONSTONE
37	OPEN BAY HEADER HEIGHT	0.5

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

5 OF 6  
SHEET  
JOB NO. TARE46475  
DATE 6/2/2025  
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PHONE 02 6551 6860  
**MANNING RIVER LIONS DAVID CLARK**  
36 ARKWRIGHT CRESCENT  
TAREE

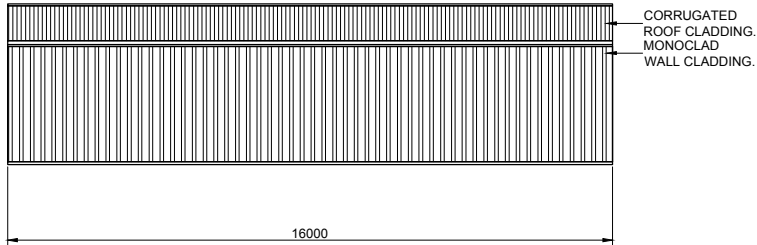


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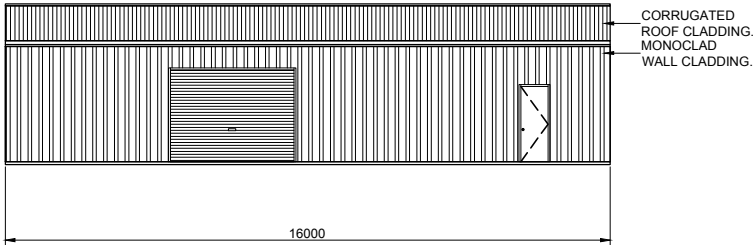
Mr Timothy Roy Messer BE MIEAust RPEQ  
Signature .....  
Date 6/2/2025  
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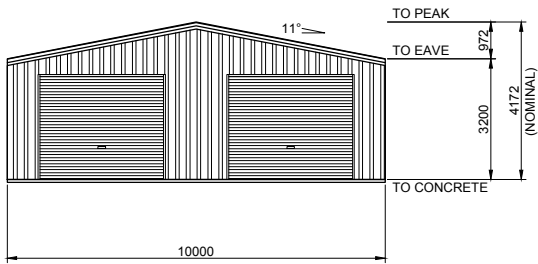
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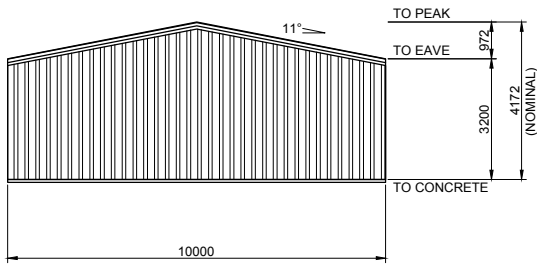
1  
6 SIDEWALL EXTERIOR ELEVATION  
SCALE: 1 = 200



2  
6 SIDEWALL EXTERIOR ELEVATION  
SCALE: 1 = 200



4  
6 ENDWALL EXTERIOR ELEVATION  
SCALE: 1 = 200



3  
6 ENDWALL EXTERIOR ELEVATION  
SCALE: 1 = 200

BUILDING COLOURS	
WALL	SHALE GREY
ROOF	SHALE GREY
ROLLER DOOR	IRONSTONE
P.A. DOOR	IRONSTONE
DOWNPIPE	N/A - downpipes by others
GUTTER	IRONSTONE
CORNER FLASHING	IRONSTONE
BARGE FLASHING	IRONSTONE
OPENING FLASHING	IRONSTONE

6  
OF  
6

SHEET

JOB NO.  
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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 ANCHORED TO THE SLAB.

**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

- 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.
- 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.
- 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.
- 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.
- INSTALL REMAINING PURLINS
- INSTALL KNEE AND APEX BRACES IF AND WHERE APPLICABLE.
- REPEAT FOR LEANTO'S.

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

- 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.
- 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.
- 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.
- 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.
- INSTALL REMAINING PURLINS AND GIRTS.
- REPEAT FOR LEANTO'S.

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## GUIDE TO THE INSTALLATION OF TEMPORARY BRACING

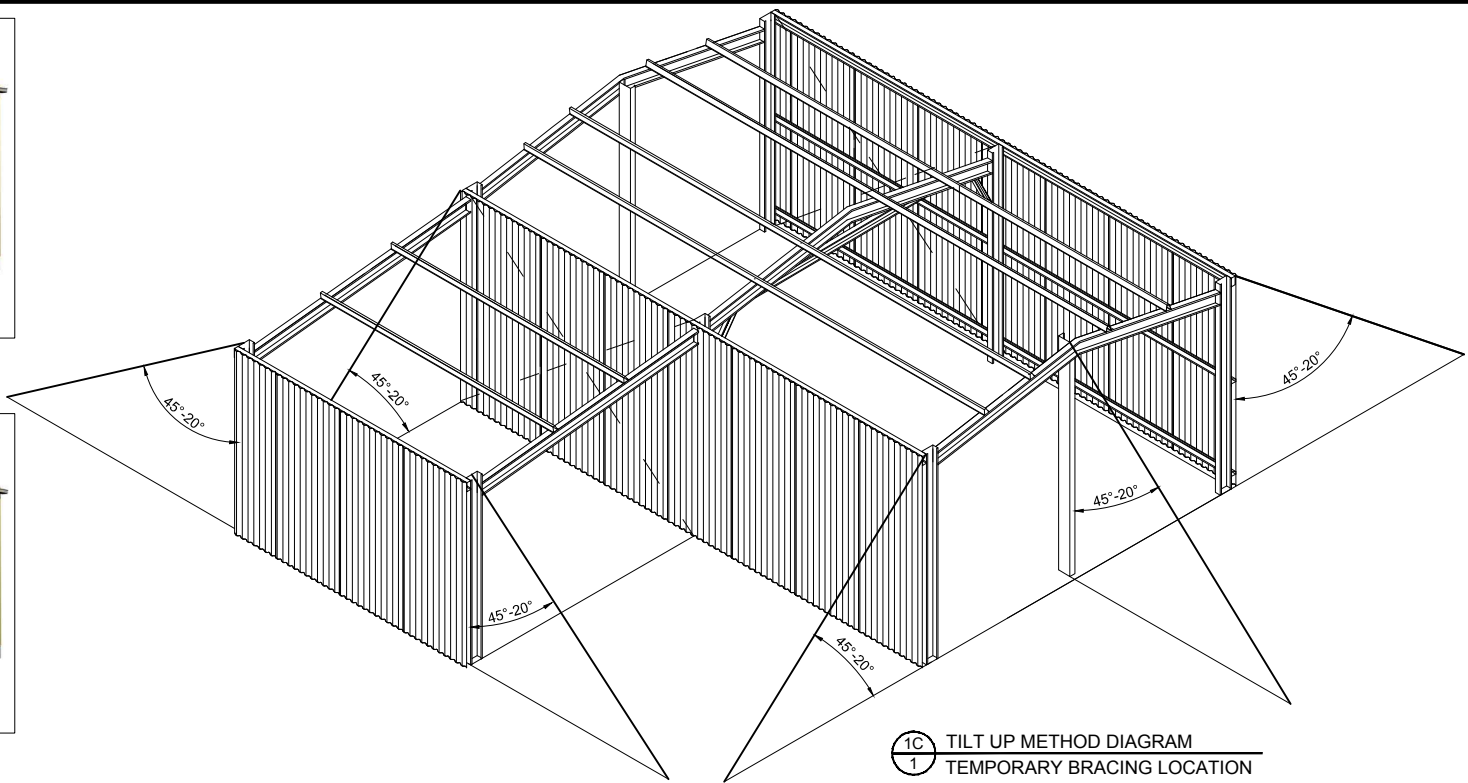
(REFER TO INSTALLATION GUIDE MANUAL FOR THE TWO METHODS OF CONSTRUCTION)



1A FIRST SIDEWALL FRAME  
1 REFER 1C FOR TEMPORARY BRACING LOCATION



1B SECOND SIDEWALL FRAME  
1 REFER 1C FOR TEMPORARY BRACING LOCATION



1C TILT UP METHOD DIAGRAM  
1 TEMPORARY BRACING LOCATION

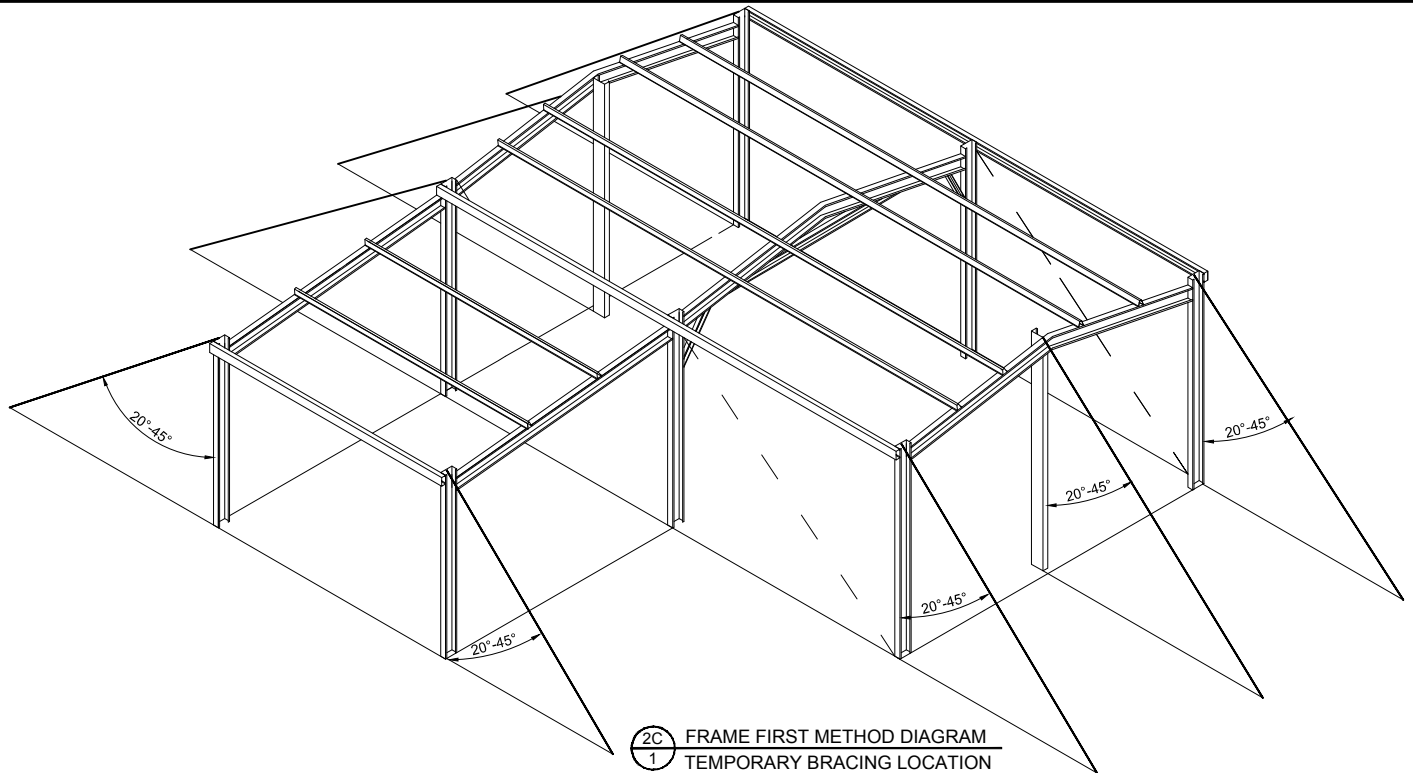
1 TILT UP METHOD DIAGRAM  
1 SCALE: NTS



2A FIRST & SECOND PORTAL FRAME ASSEMBLY  
1 REFER 2C FOR TEMPORARY BRACING LOCATION



2B COMPLETE PORTAL FRAME ASSEMBLY  
1 REFER 2C FOR TEMPORARY BRACING LOCATION



2C FRAME FIRST METHOD DIAGRAM  
1 TEMPORARY BRACING LOCATION

2 FRAME FIRST METHOD DIAGRAM  
1 SCALE: NTS

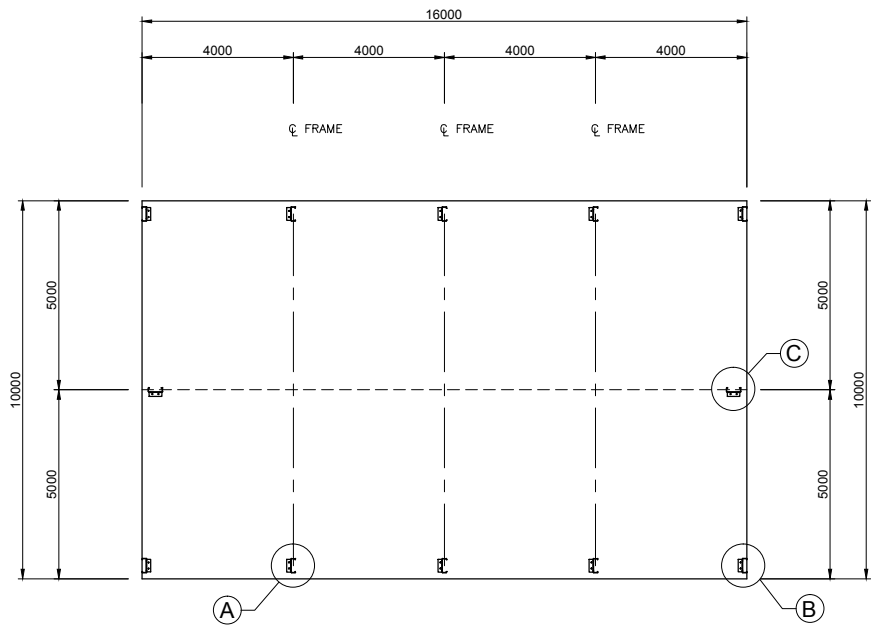
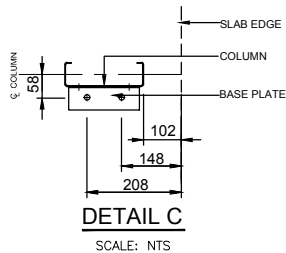
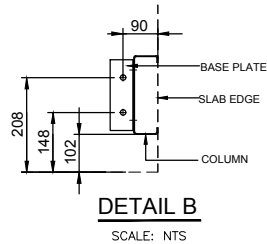
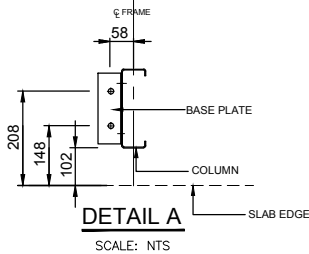
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STEEL BUILDING BY  
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FOR  
PHONE 02 6551 6860  
AT **MANNING RIVER LIONS DAVID CLARK**  
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TAREE



# TEMP BRACING

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1 BOLT LAYOUT PLAN  
1 SCALE: 1 = 200

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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. TARE46475	DATE 6/2/2025	CHECKED TM	DRAWN FDS	<div>STEEL BUILDING BY</div> <div>STABLE SHEDS &amp; GARAGES</div> <div>FOR</div> <div>PHONE 02 6551 6860</div> <div>AT</div> <div>MANNING RIVER LIONS DAVID CLARK</div> <div>36 ARKWRIGHT CRESCENT</div> <div>TAREE</div> <div>36 ARKWRIGHT CRESCENT</div> <div>TAREE</div> <div>SHED SAFE</div> <div>accredited</div>		<div>BOLT LAYOUT PLAN</div>
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