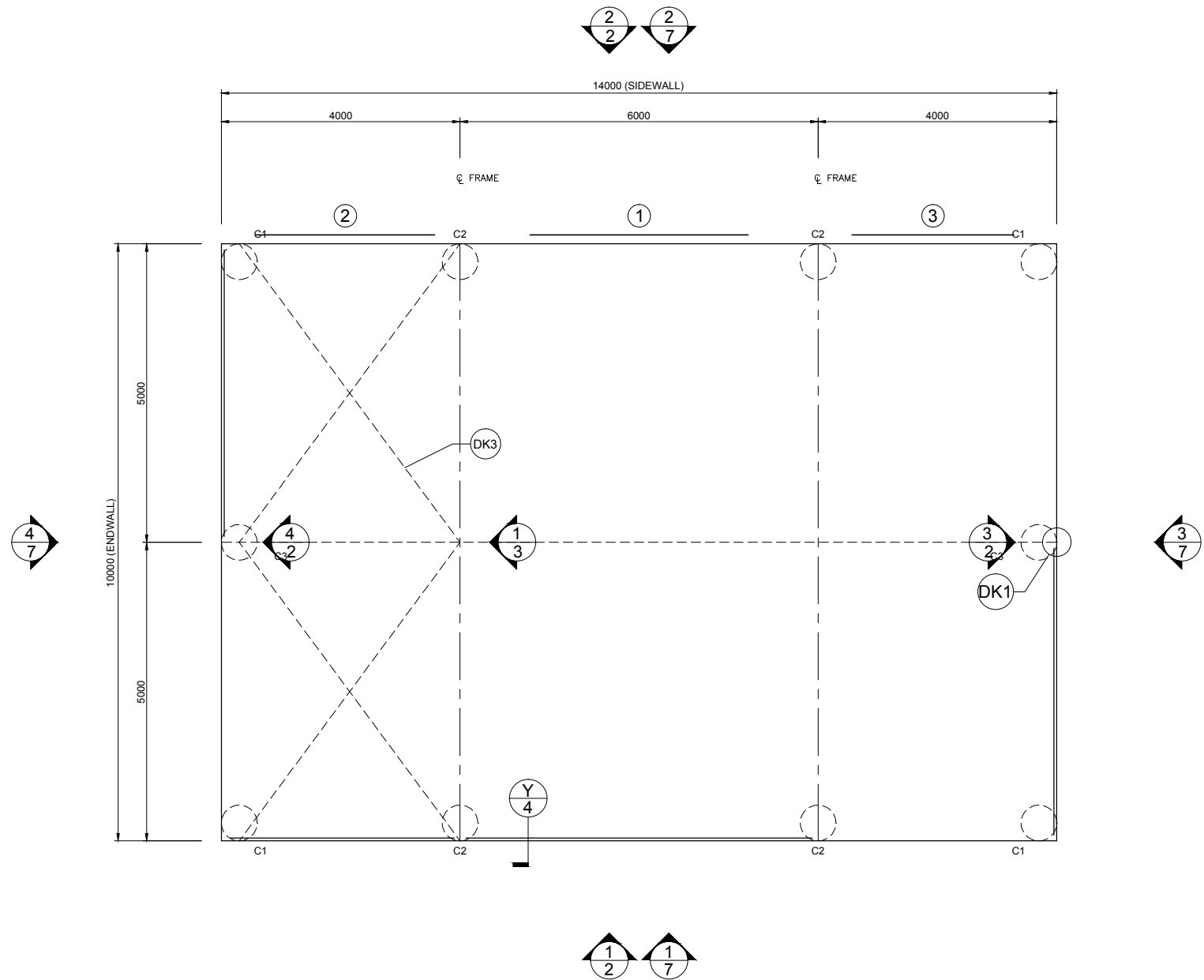


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IF IN DOUBT, ASK.



1 FOUNDATION PLAN AND MEMBER LAYOUT
SCALE: 1 = 100

MEMBER LEGEND

C1	C20024
C2	2C20024
C3	C20019

ROOF STRAP BRACING TO BE CONNECTED TO THE PURLIN CLOSEST TO THE LINE OF THE END WALL MULLION
ROOF STRAP BRACING CAN BE PLACED FROM EITHER END OF THE BUILDING PROVIDING THE STRAP PATTERN REMAINS AS PER PLANS

SHEET 1 OF 7

JOB NO. YAAAS23883
NCC 2022

DATE 12/4/2024

CHECKED TM

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STEEL BUILDING BY (CONTACT)
MA STEEL PTY LTD (LIC 225516C)
02 6226 4377
KYLIE & ADAM GREENWOOD
309 ISABEL DRIVE
MURRUMBATEMAN

FOR AT

SHED SAFE ACCREDITED

NORTHERN CONSULTING engineers

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

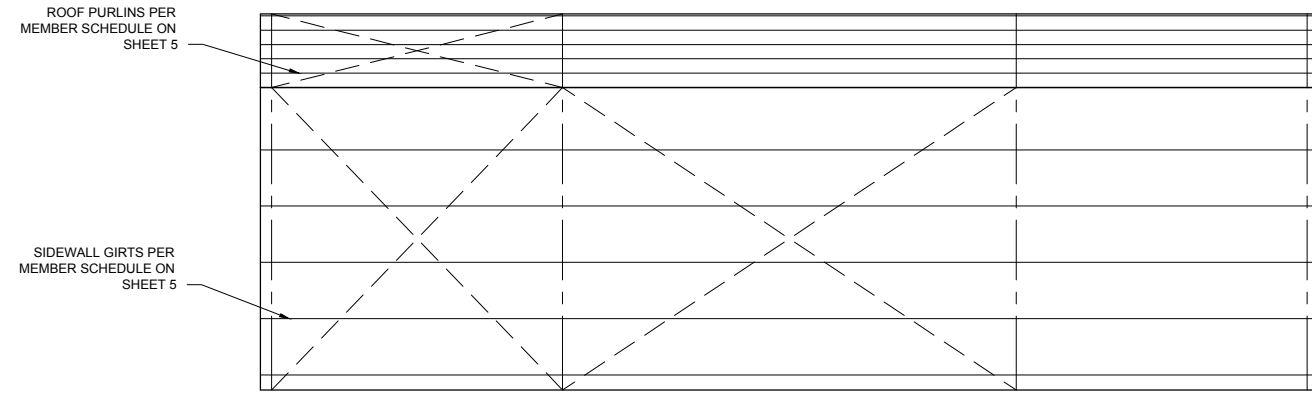
Signature *T. Messer*

Date 12/4/2024

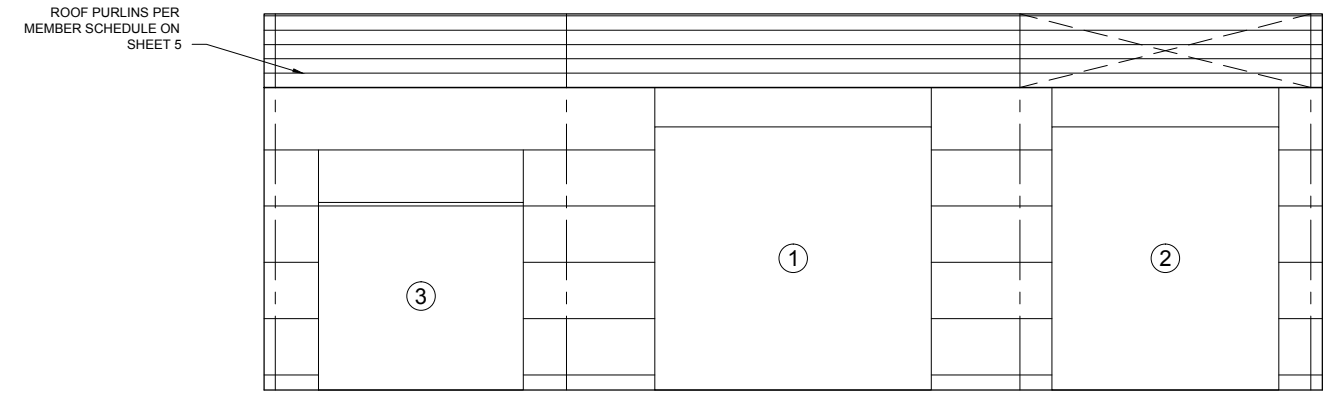
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DO NOT SCALE THIS DRAWING. USE FIGURED DIMENSIONS ONLY. ALL DIMENSIONS TO BE VERIFIED ON SITE.

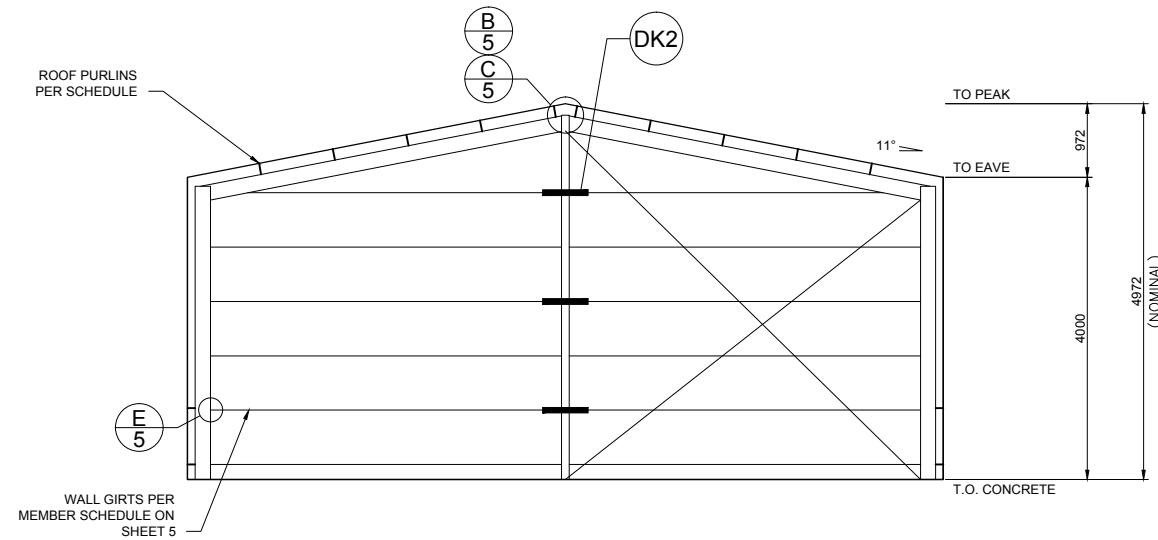
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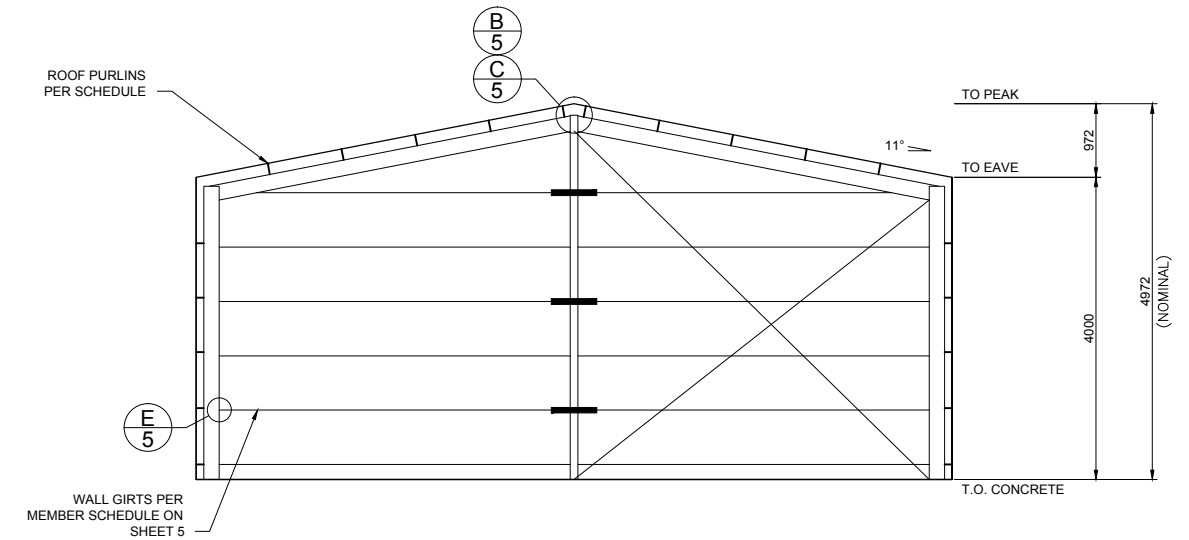
1 SIDEWALL EXTERIOR ELEVATION
2 SCALE: 1 = 100



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 2 SIDE BAYS, 2 END BAYS, 2 ROOF BAYS.
SEE LAYOUT OR PLANS FOR PLACEMENT. FLY BRACING IS INCLUDED TO BE PLACED ON EVERY SECOND PURLIN AND GIRT ON ENDWALL MULLIONS, INTERNAL COLUMNS AND INTERNAL RAFTERS.

2 OF 7	SHEET	JOB NO. YAAS23883	DATE 12/4/2024	CHECKED TM	DRAWN FDS
		NCC 2022			

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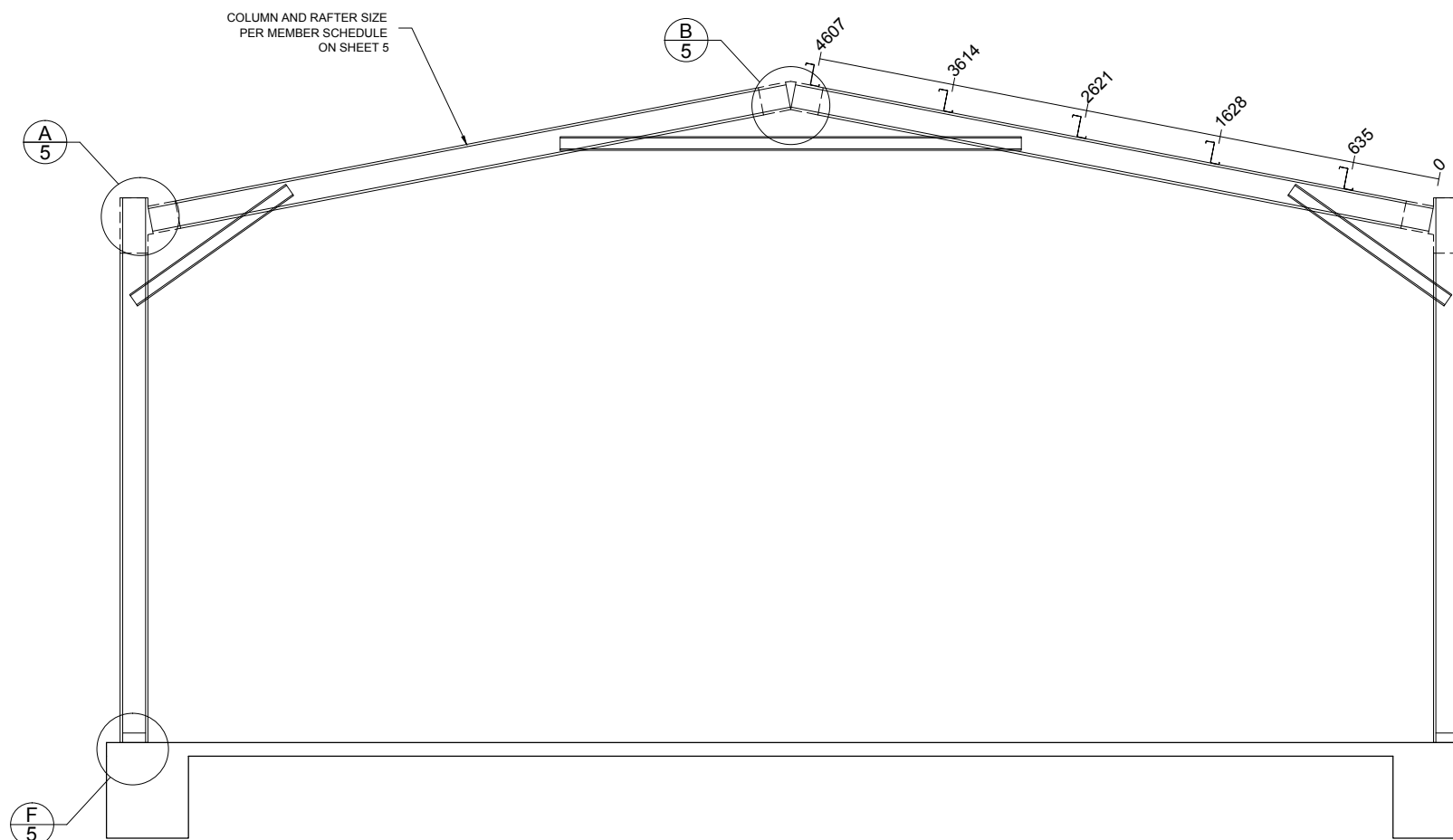
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 Regn. No. PE0002216
 Regn. No. CC5648M



Mr Timothy Roy Messer BE MIEAust RPEQ
 Signature *T. Messer*
 Date 12/4/2024
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1 INTERNAL FRAME SECTION
3 SCALE: 1 = 50

Refer to Sheet #4 for concrete specification.

SHEET 3 OF 7	JOB NO. YAAAS23883	DATE 12/4/2024	CHECKED TM	DRAWN FDS	STEEL BUILDING BY MA STEEL PTY LTD (LIC 225516C) (CONTACT) 02 6226 4377 KYLIE & ADAM GREENWOOD 309 ISABEL DRIVE MURRUMBATEMAN			Civil & Structural Engineers 50 Punari Street Currajong, Qld 4812 Fax: 07 4725 5850 Email: design@nceng.com.au ABN 341 008 173 56	Mr Timothy Roy Messer BE MIEAust RPEQ Signature <i>T. Messer</i> Date 12/4/2024 Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register
	FOR	AT	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					

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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 (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.
- 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.
- 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.
- 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 OF 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.
- 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.
- 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, 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.
- 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.
- 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.
- 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 STRAIT GENERAL FINCHINGS.
- 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.

PROJECT DESIGN CRITERIA

ROOF LIVE LOAD: 0.25 kPa
 BASIC WIND SPEED: VR 45 m/s
 SITE WIND SPEED: V_{sit}B 40.9 m/s
 WIND REGION: Reg A3
 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 2.01
 SOIL SAFE BEARING CAPACITY: 100 kPa
 RETURN PERIOD: 1:500
 LIMITING CPI 1: -0.58
 LIMITING CPI 2: 0.62
 IMPORTANCE LEVEL: 2

DETAIL KEYS

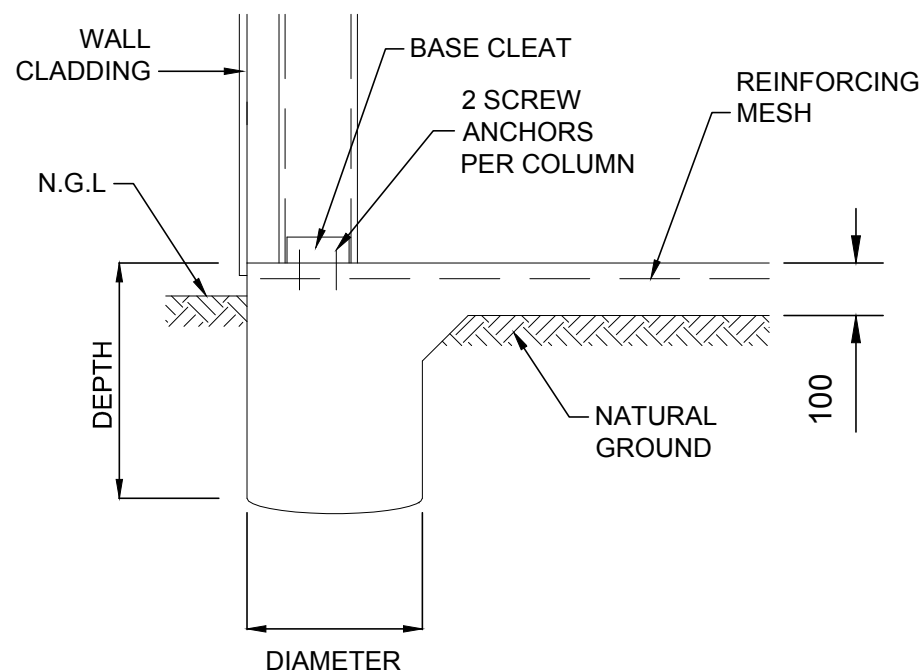
- (DK1) ENDWALL VERTICAL MULLION (SEE DETAIL C/5 FOR TOP CONN. AND F/5 FOR BASE CONN.)
- (DK2) FLYBRACING PER DETAIL L/5
- (DK3) X-BRACING IN ROOF ABOVE (SEE DETAIL A/6)
- (DK4) DOUBLE X-BRACING IN ROOF ABOVE (SEE DETAIL A/6)

SCHEDULE OF OPENINGS

DOOR	OPENING WIDTH	OPENING HEIGHT	OPENING TYPE	HEADER GIRT	OPENING JAMBS	WIND RATED
①	3660	3480*	3.50H X 3.76 CB PLANETARY GEAR *SERIES B	SINGLE	Z20015P	NO
②	3000	3480*	3.50H X 3.10 CB DIRECT DRIVE *SERIES B	SINGLE	Z20015P	NO
③	2710	2480*	2.50H X 2.77 CB *SERIES A #	SINGLE	XSRDZ15042	NO

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.



600 x 700
 Diameter x Depth (mm)

N.G.L. - NATURAL GROUND LINE

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

4 OF 7 SHEET	JOB NO. YAAS23883	DATE 12/4/2024	CHECKED TM	DRAWN FDS	STEEL BUILDING BY
	NCC 2022				(CONTACT)

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 02 6226 4377
KYLIE & ADAM GREENWOOD
 309 ISABEL DRIVE
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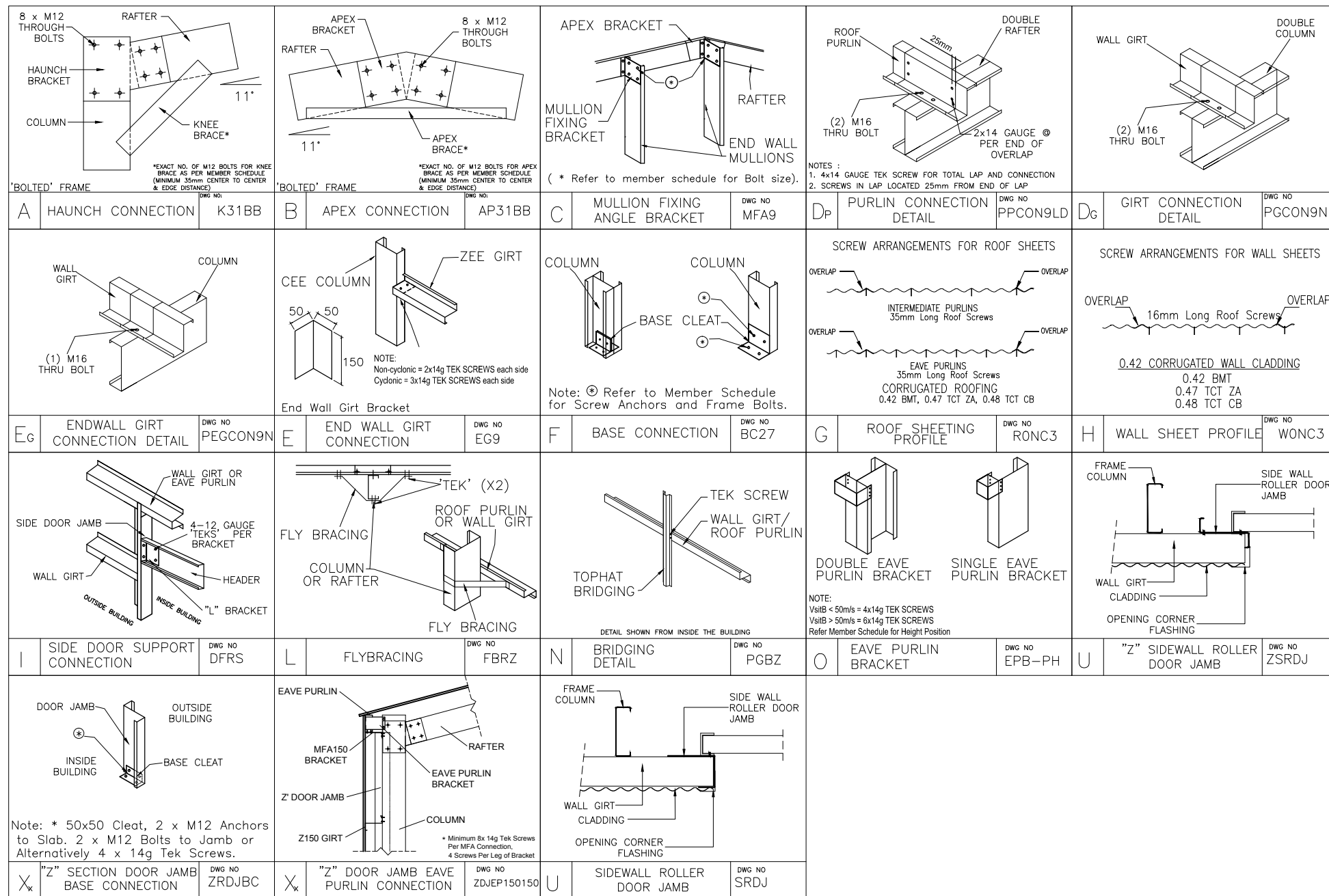
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 Regn. No. PE0002216
 Regn. No. CC5648M

Mr Timothy Roy Messer BE MIEAust RPEQ
 Signature *T. Messer*
 Date 12/4/2024
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MEMBER AND MATERIAL SCHEDULE

1	END WALL RAFTER	Single C20019
2	C.S. FRAME RAFTER	Double C20019
3	END FRAME COLUMN (C1)	Single C20024
4	C.S. FRAME COLUMN (C2)	Double C20024
5	MULLION (C3)	Single C20019
6	C.S. FRAME KNEE BRACE	Single C20019 @ 1.53 LONG 5 bolts each end
7	KNEE BRACE HEIGHT UP COLUMN	3.19m
8	KNEE BRACE LENGTH UP RAFTER	1.10m
9	C.S. FRAME APEX BRACE	Single C20019 @ 3.37 LONG 3 bolts each end
10	APEX POSITION FROM RAFTER END	1.68m
11	ANCHOR BOLTS (# PER DETS.)	Screw Anchor 16mm x 100 Galv
12	EAVE PURLIN	C15019 (Eave Purlin Bracket 0mm from top of column)
13	TYP. ROOF PURLIN SIZE	Z15015 (1 rows of bridging)
14	MAIN BLDG. PURLIN SPACING	0.993 m. (5 rows) (Max Allow. 1.000m)
15	ROOF PURLIN BRIDGING	Tophat 64 x 0.75
16	TYP. SIDEWALL GIRT SIZE	Z15015 (1 rows of bridging)
17	MAIN BLDG. SIDEWALL GIRT SPACING	0.744 m. (5 rows) (Max Allow. 0.850m)
18	SIDEWALL GIRT BRIDGING	Tophat 64 x 0.75
19	TYP. ENDWALL GIRT SIZE	Z15015
20	MAIN BLDG. ENDWALL GIRT SPACING	0.719 m. (6 rows) (Max Allow. 0.783m)
21	MAIN BLDG. ENDWALL GIRT LENGTH	4.95 m. (0.3m Overlap)
22	FRAME SCREW FASTENERS	14-13x22 Hex C/S (SP HD 5/16" Hex Drive)
23	FRAME BOLT FASTENERS	Purlin Assy M12x30 Z/P
24	PURLIN/GIRT FASTENERS	Purlin Assy M16x30 Z/P
25	X-BRACING STRAP AND FASTENERS	38 x 1.6mm Strap with 5 x 14g Tek Screws Each End
26	WALL COLOUR	NIGHT_SKY
27	ROOF COLOUR	NIGHT_SKY
28	ROLLER DOOR COLOUR	NIGHT_SKY
29	DOWNPIPE COLOUR	NIGHT_SKY
30	GUTTER COLOUR	NIGHT_SKY
31	CORNER FLASHING COLOUR	NIGHT_SKY
32	BARGE FLASHING COLOUR	NIGHT_SKY
33	OPENING FLASHING COLOUR	NIGHT_SKY
34	OPEN BAY HEADER HEIGHT	0.5

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

PURLIN AND GIRT LENGTHS

BAY	WIDTH	PURLIN LENGTH	GIRT LENGTH
1	4m	4.6 m. (0.6m Lap)	4.3 m. (0.3m Lap)
2	6m	6.4 m. (0.4m Lap)	6.3 m. (0.3m Lap)
3	4m	4.6 m. (0.6m Lap)	4.3 m. (0.3m Lap)

5 OF 7
SHEET
JOB NO. YAAS23883
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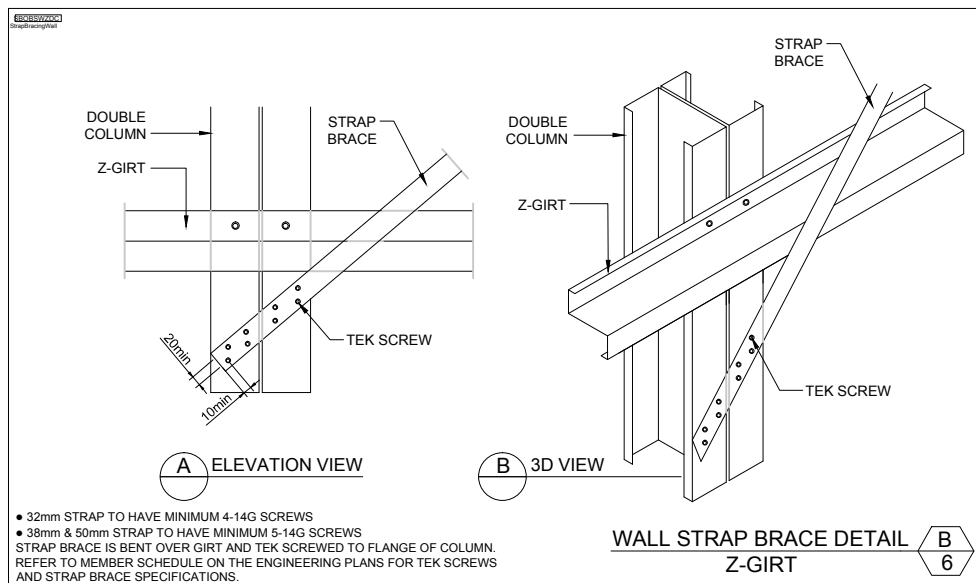
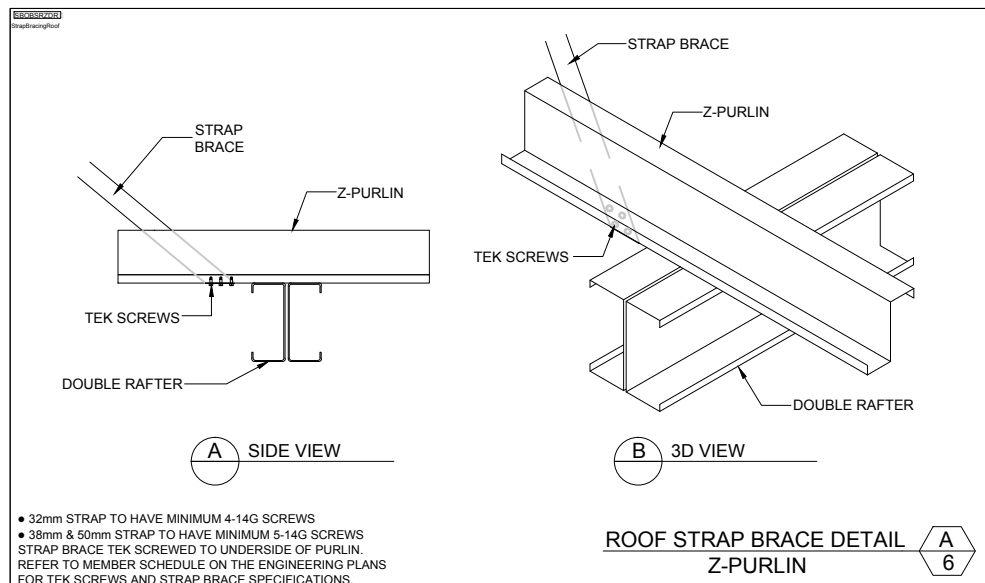
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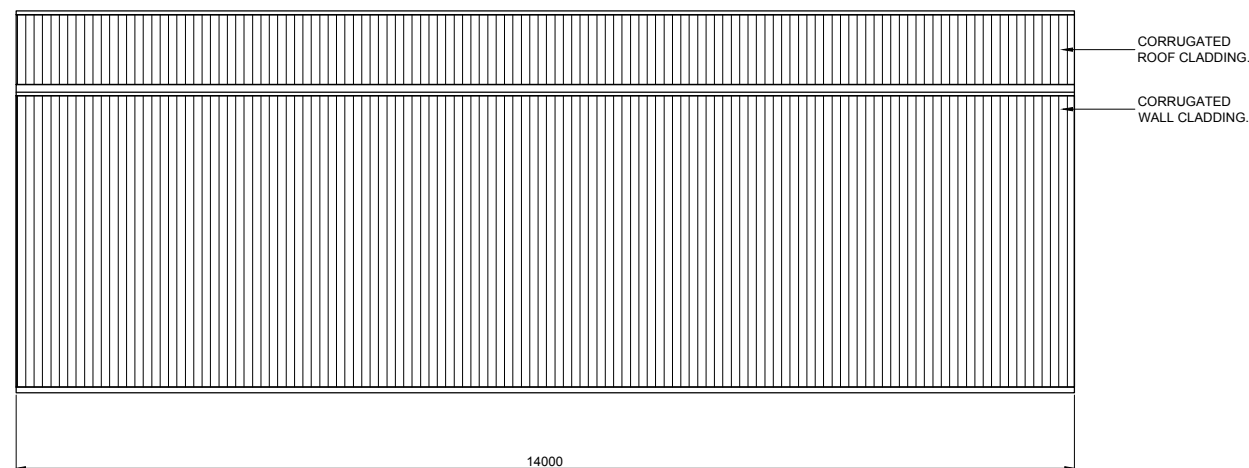
Mr Timothy Roy Messer BE MIEAust RPEQ

Signature *T. Messer*

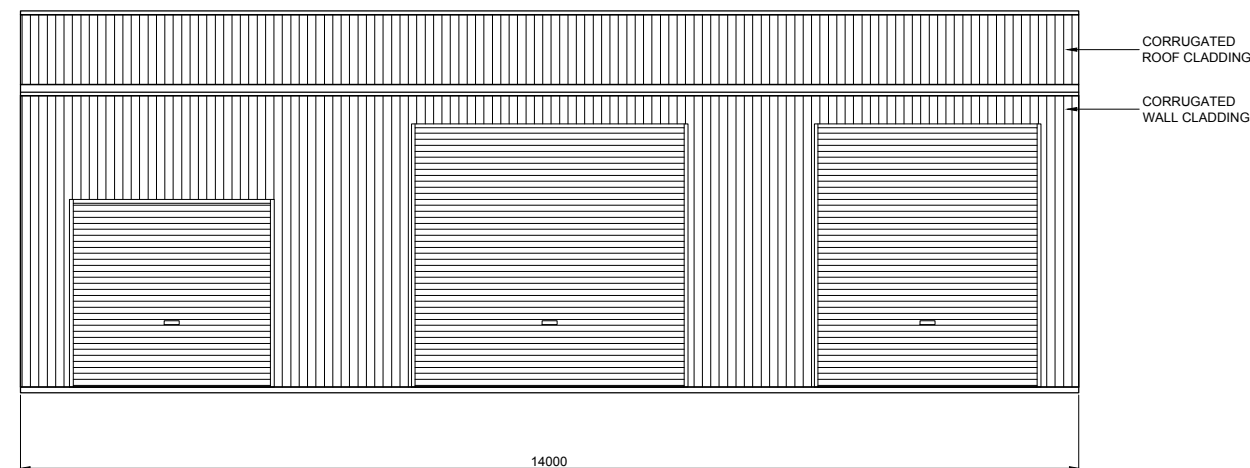
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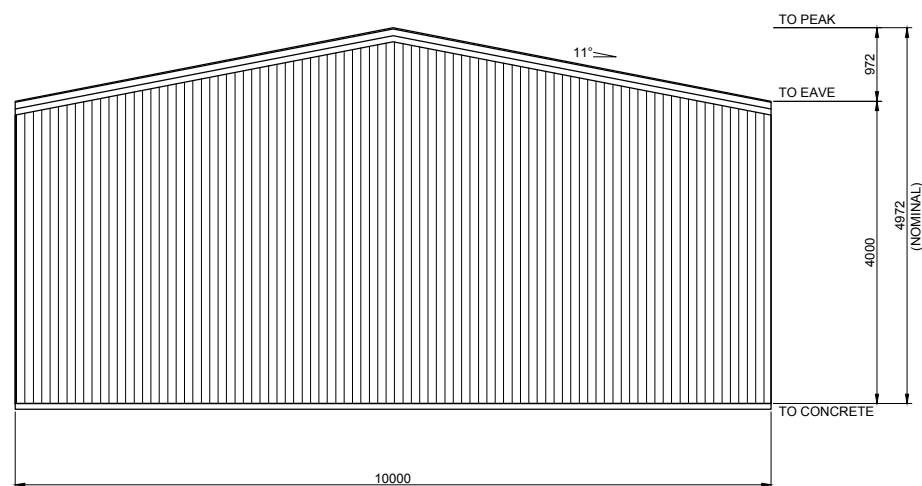
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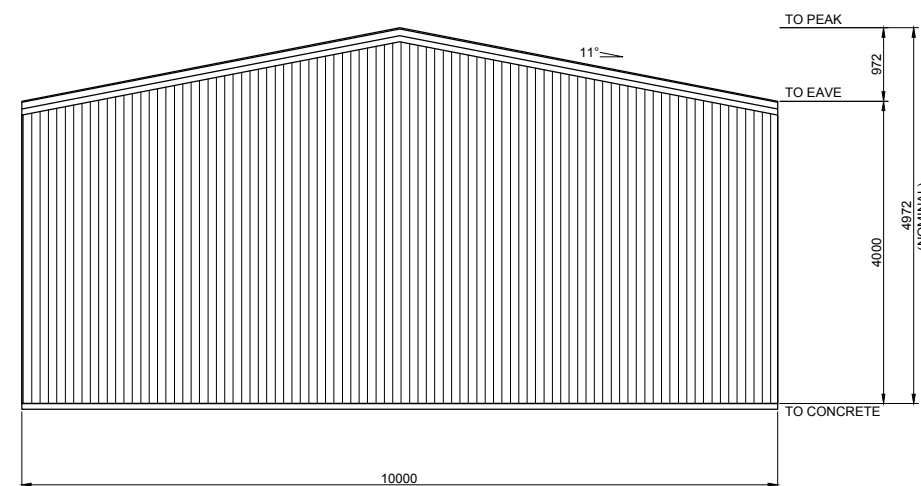
1
7 SIDEWALL EXTERIOR ELEVATION
SCALE: 1 = 100



2
7 SIDEWALL EXTERIOR ELEVATION
SCALE: 1 = 100



4
7 ENDWALL EXTERIOR ELEVATION
SCALE: 1 = 100



3
7 ENDWALL EXTERIOR ELEVATION
SCALE: 1 = 100

BUILDING COLOURS

WALL	NIGHT SKY
ROOF	NIGHT SKY
ROLLER DOOR	NIGHT SKY
DOWNPIPE	NIGHT SKY
GUTTER	NIGHT SKY
CORNER FLASHING	NIGHT SKY
BARGE FLASHING	NIGHT SKY
OPENING FLASHING	NIGHT SKY

7 OF 7
SHEET
JOB NO. YAAS23883
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MURRUMBATEMAN



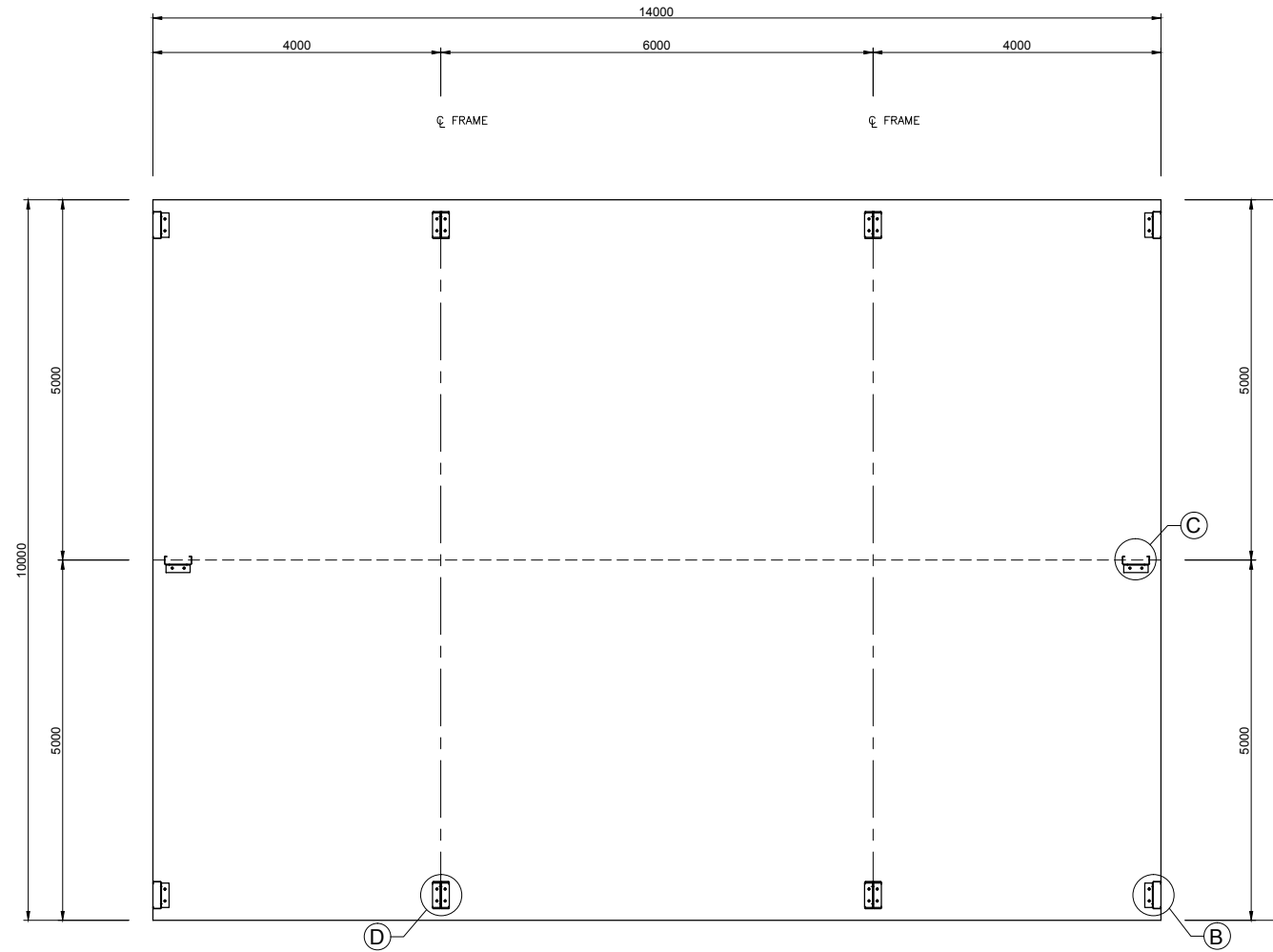
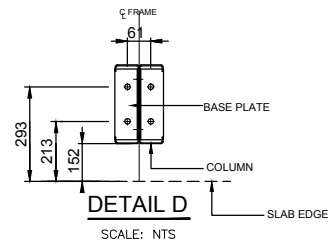
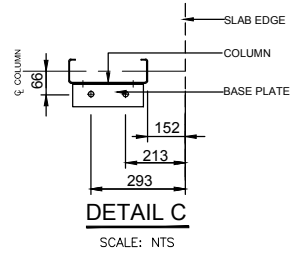
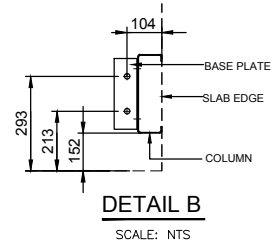
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Registered Engineer - (Civil) VIC
Registered Engineer - (Civil) TAS

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

Mr Timothy Roy Messer BE MIEAust RPEQ
Signature *T. Messer*
Date 12/4/2024
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

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.

NOT PART OF COUNCIL APPLICATION DOCUMENTATION

JOB NO. YAAS23883	DATE 12/4/2024	CHECKED TM	DRAWN FDS	STEEL BUILDING BY MA STEEL PTY LTD (LIC 225516C) 02 6226 4377 FOR KYLIE & ADAM GREENWOOD AT 309 ISABEL DRIVE MURRUMBATEMAN
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BOLT LAYOUT PLAN