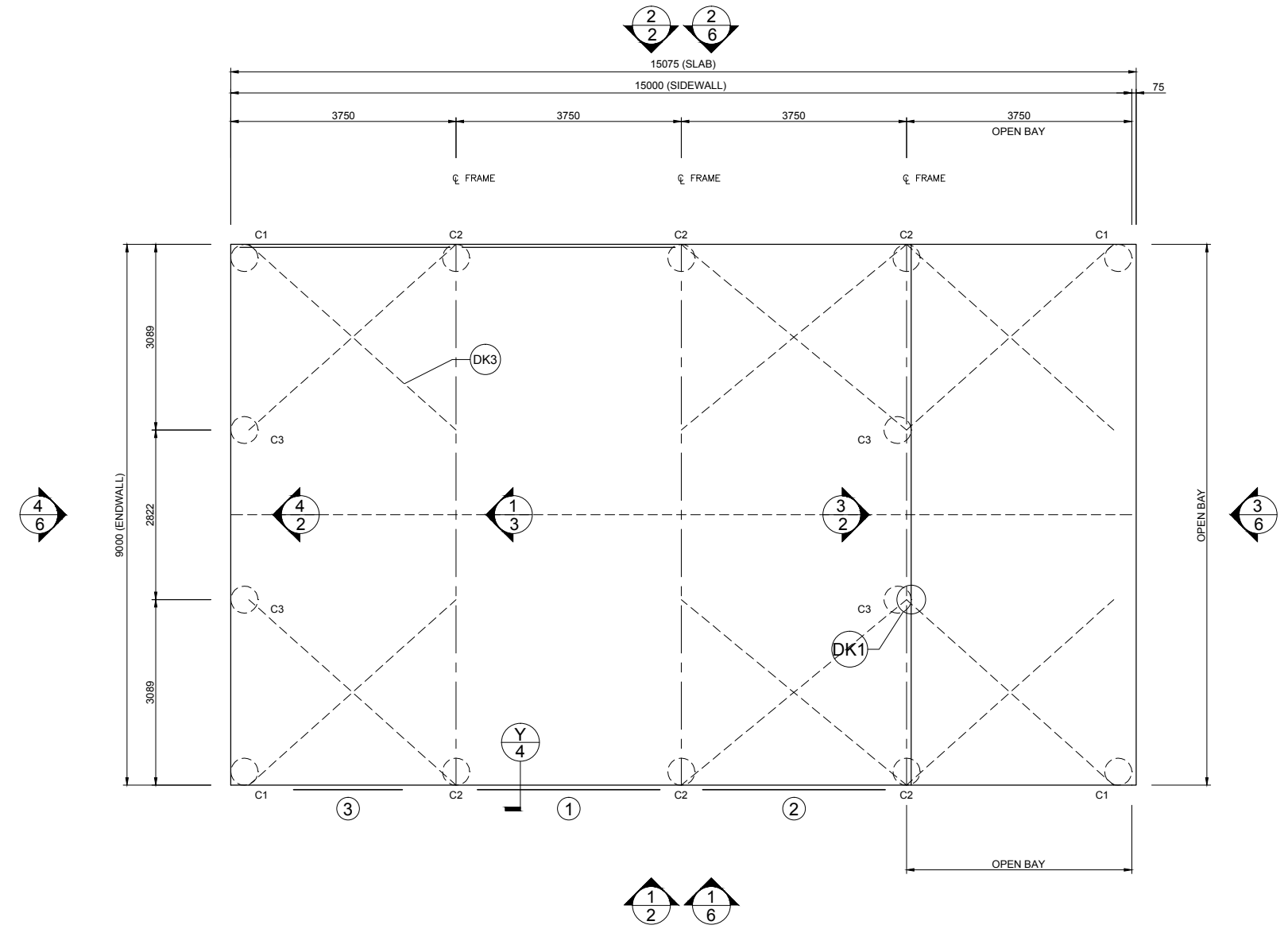


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IF IN DOUBT, ASK.



1 FOUNDATION PLAN AND MEMBER LAYOUT
SCALE: 1 = 100

MEMBER LEGEND

C1	C20015
C2	C20024
C3	C15015

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

1 OF 6 SHEET

JOB NO. BEND40728
NCC 2019

DATE 15/9/2020

CHECKED TM

DRAWN FDS

STEEL BUILDING BY (CONTACT)
BENDIGO GARAGES
03 5444 0523
COLIN SNOWDEN
37 REMMINGTON CRT
HUNTLY

FOR AT

SHED SAFE

fairdinkum SHEDS

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. EC36692
Regn. No. CC5648M

Mr Timothy Roy Messer BE MIEAust RPEQ
Registered Professional Engineer 2558980

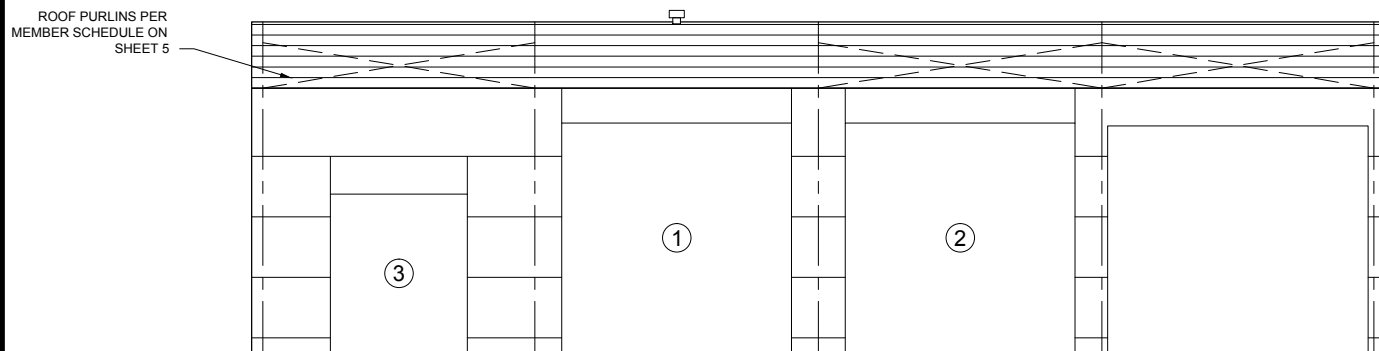
Signature *T. Messer*

Date 15/9/2020

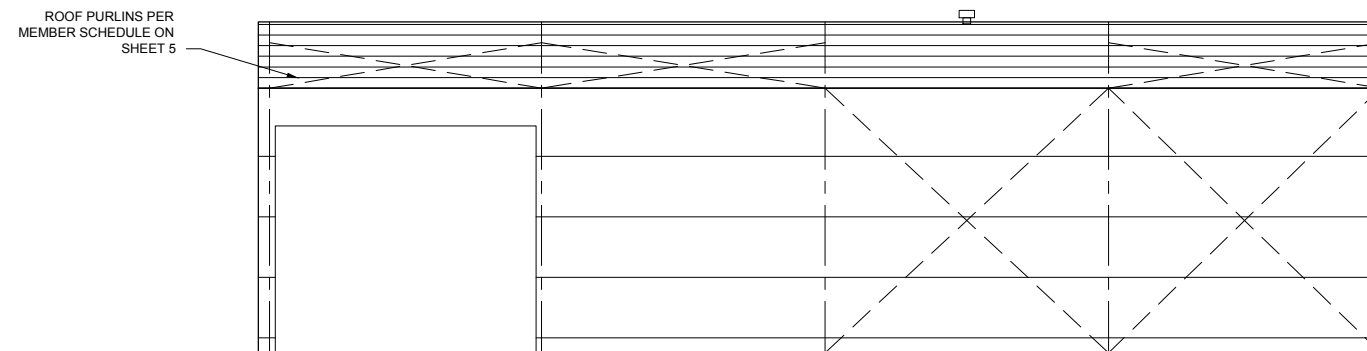
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DO NOT SCALE THIS DRAWING. USE FIGURED DIMENSIONS ONLY. ALL DIMENSIONS TO BE VERIFIED ON SITE.

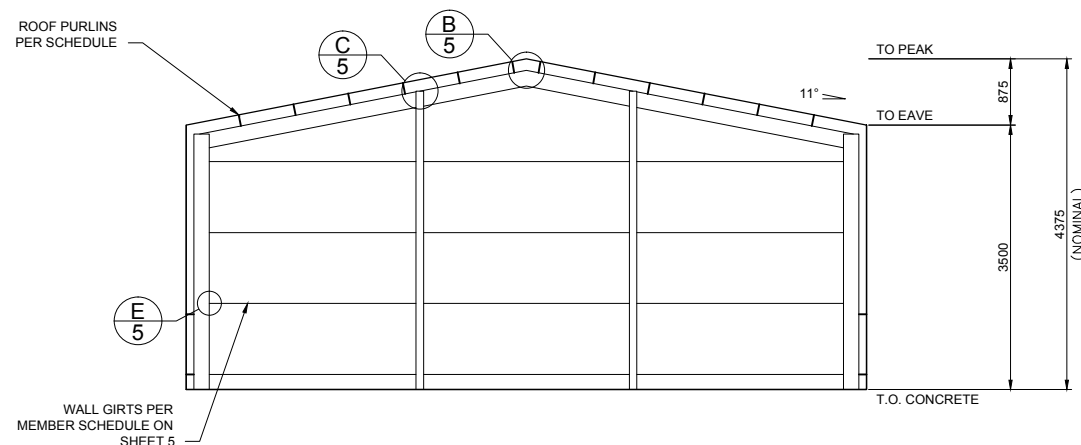
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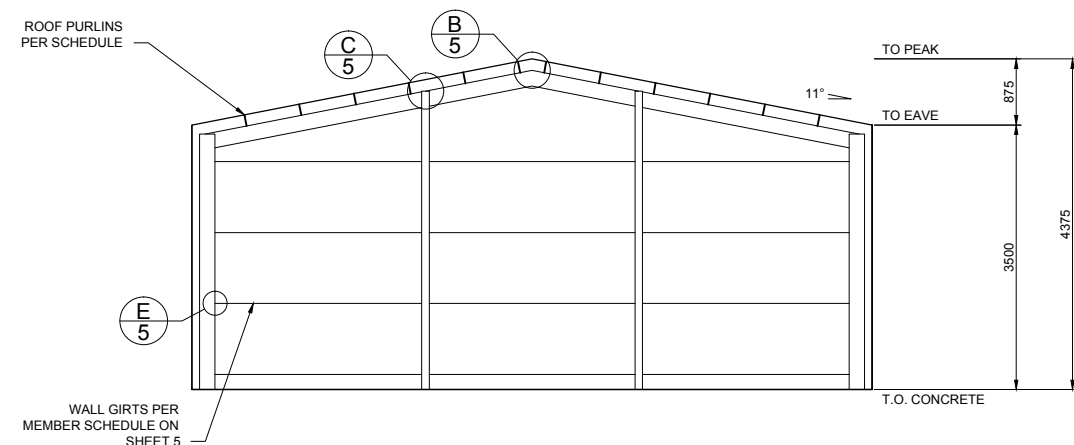
1 SIDEWALL EXTERIOR ELEVATION
2 SCALE: 1 = 100



2 SIDEWALL EXTERIOR ELEVATION
2 SCALE: 1 = 100



4 ENDWALL INTERIOR ELEVATION
2 SCALE: 1 = 100

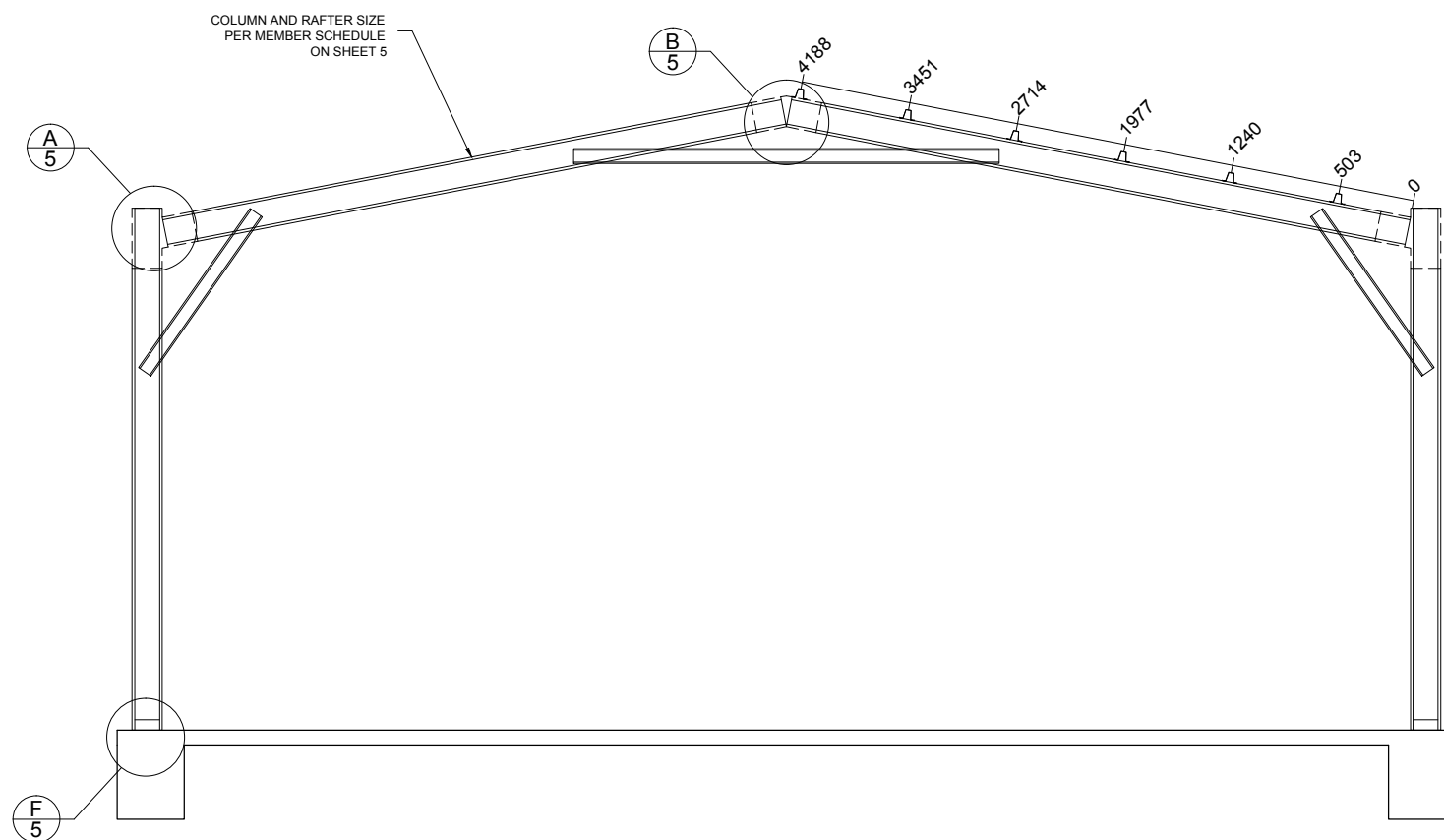


3 ENDWALL INTERIOR ELEVATION
2 SCALE: 1 = 100

X BRACING IS REQUIRED IN 2 SIDE BAY(S) AND 2 ROOF BAY(S) (BOTH SIDES).
BRACING IS NEEDED ON THE ROOFS ON BOTH SIDES OF THE GARAPORT ENDWALL.




2 OF 6	SHEET	JOB NO. BEND40728	DATE 15/9/2020	CHECKED TM	DRAWN FDS	STEEL BUILDING BY	(CONTACT) BENDIGO GARAGES 03 5444 0523 COLIN SNOWDEN 37 REMMINGTON CRT HUNTLY				Civil & Structural Engineers 50 Punari Street Currajong, Qld 4812 Fax: 07 4725 5850 Email: design@nceng.com.au ABN 341 008 173 56	Regn. No. 2558980 Regn. No. 9985 Regn. No. 116373ES Regn. No. EC36692 Regn. No. CC5648M	Mr Timothy Roy Messer BE MIEAust RPEQ Registered Professional Engineer 2558980 Signature <i>T. Messer</i> Date 15/9/2020 Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register
	FOR	AT	NCC 2019	DATE	CHECKED	DRAWN	STEEL BUILDING BY				(CONTACT)	SHED SAFE	fairdinkum SHEDS

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1 INTERNAL FRAME SECTION
3 SCALE: 1 = 50

Refer to Sheet #4 for concrete specification.

3 OF 6 SHEET	JOB NO. BEND40728	DATE 15/9/2020	CHECKED TM	DRAWN FDS	STEEL BUILDING BY	(CONTACT) BENDIGO GARAGES 03 5444 0523 COLIN SNOWDEN 37 REMMINGTON CRT HUNTLY				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 Registered Professional Engineer 2558980 Signature <i>T. Messer</i>
	NCC 2019				FOR AT						Regn. No. 2558980 Regn. No. 9985 Regn. No. 116373ES Regn. No. EC36692 Regn. No. CC5648M

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STRUCTURAL GENERAL NOTES

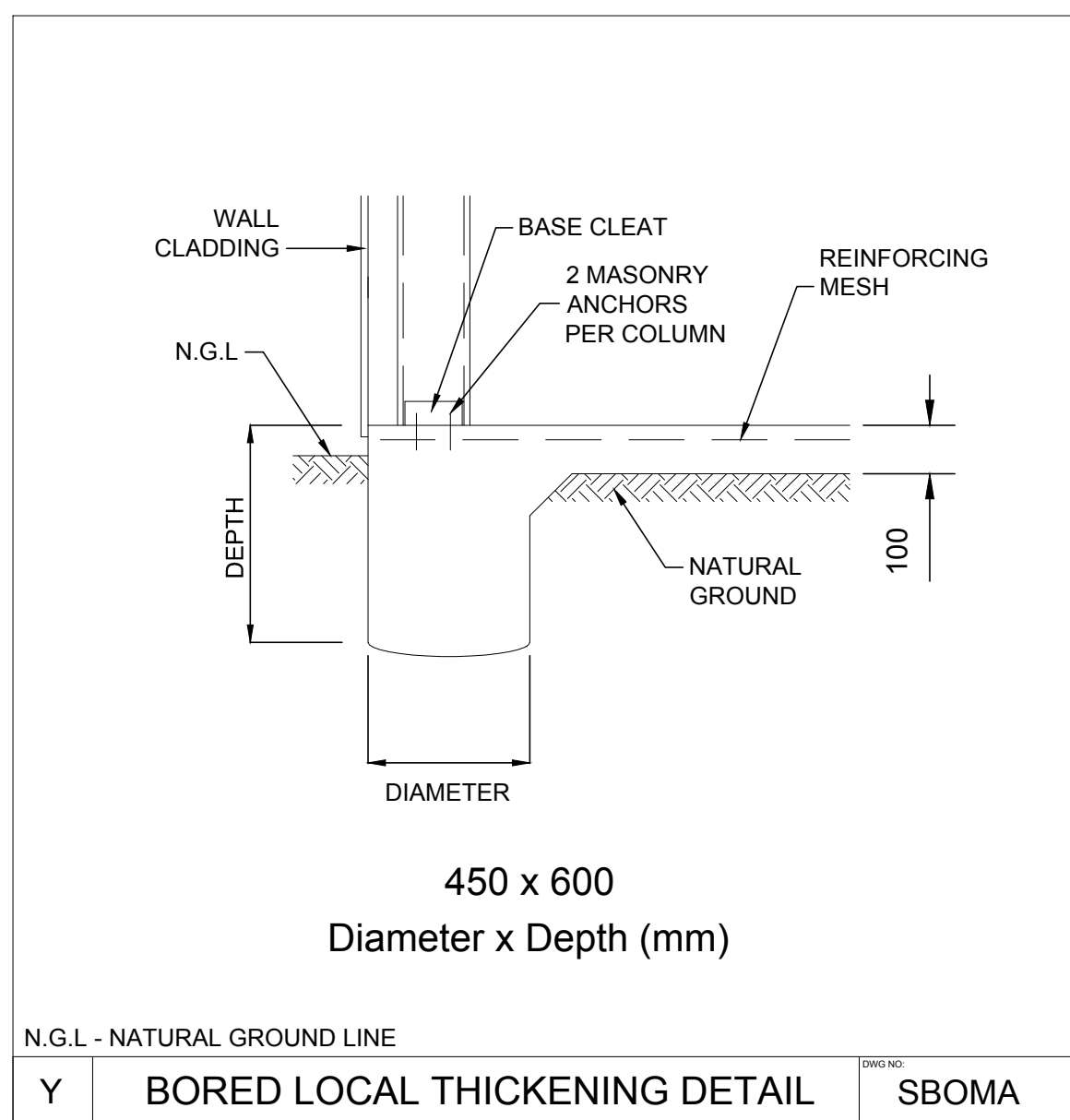
- GOVERNING CODE** : NATIONAL CONSTRUCTION CODE (NCC), LOADING TO AS1170 - ALL SECTIONS. BUILDING SUITABLE AS EITHER A PRIVATE GARAGE CLASS 10a, OR A FARM SHED (CLASS 7 OR 8), UNLESS OTHERWISE SPECIFICALLY NOTED. FOR USE AS A FARM SHED, IT MUST MEET THE FOLLOWING REQUIREMENTS:
 - BE LESS THAN 2000 SQM 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.
- 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 & 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 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 STRAMIT GENERAL FINISHES.
- 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:	VsItB 39.4 m/s
WIND REGION:	Reg A
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 2.42
SOIL SAFE BEARING CAPACITY:	100 kPa
RETURN PERIOD:	1:500
LIMITING CPI 1:	-0.65
LIMITING CPI 2:	0.7
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 M/5)
DK4	DOUBLE X-BRACING IN ROOF ABOVE (SEE DETAIL M/5)

DOOR SCHEDULE						
DOOR	WIDTH	HEIGHT	OPENING TYPE	HEADER GIRT	OPENING JAMBS	WIND RATED
①	3040	3040*	3.10H X 3.10 CB 'SERIES A #	SINGLE	XSRDTS6424	NO
②	3040	3040*	3.10H X 3.10 CB 'SERIES A #	SINGLE	XSRDTS6424	NO
③	1810	2100	2.10H X 1.81 XO STANDARD GLASS SLIDING DOOR	SINGLE	Z25024U	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. BEND40728	DATE 15/9/2020	CHECKED TM	DRAWN FDS	STEEL BUILDING BY
	NCC 2019					FOR AT

(CONTACT)
BENDIGO GARAGES
 03 5444 0523
COLIN SNOWDEN
 37 REMMINGTON CRT
 HUNTLY



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
 Registered Professional Engineer 2558980

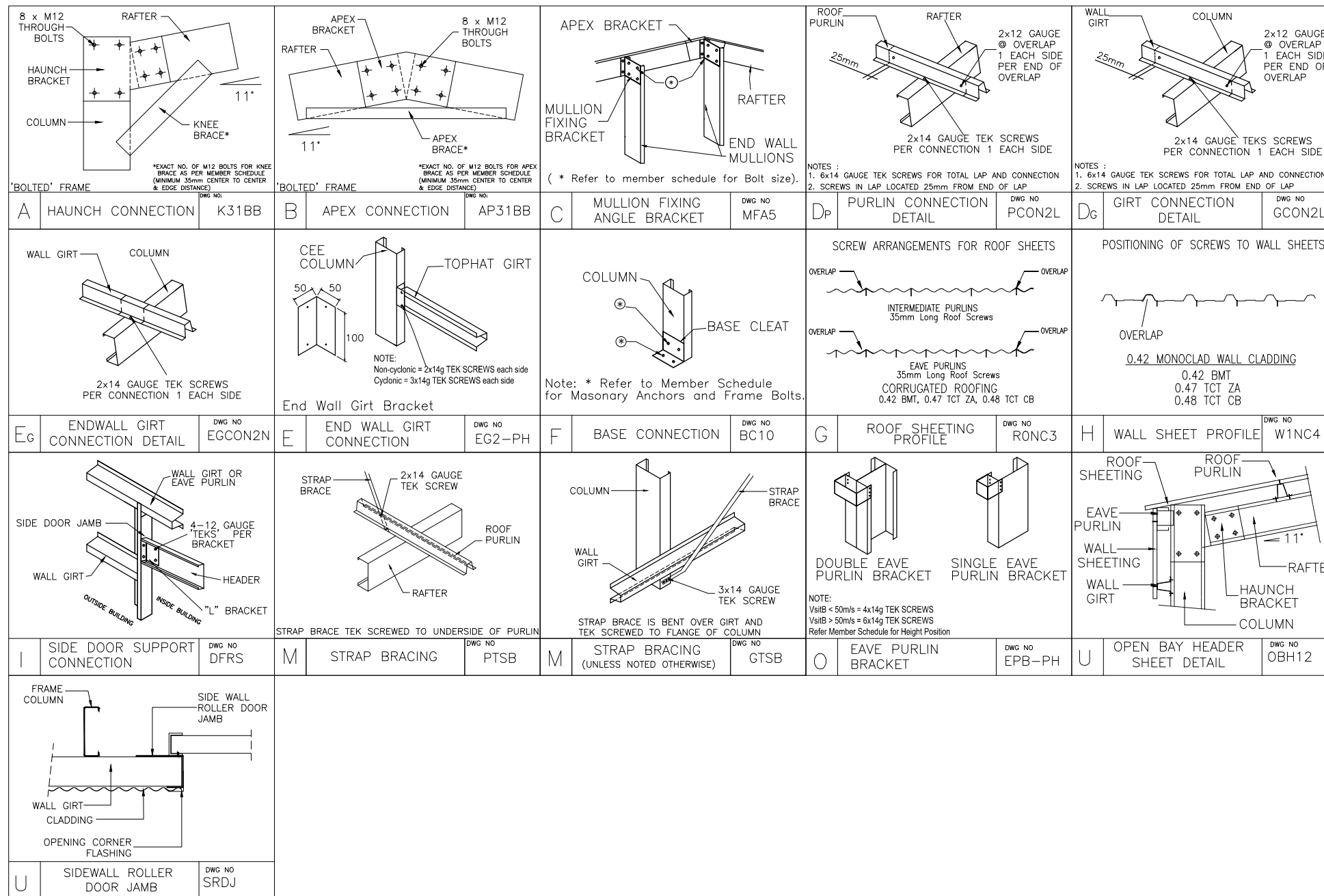
Signature: *T. Messer*

Date: 15/9/2020

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

Registered Chartered Professional Engineer	Regn. No. 2558980
Registered Professional Engineer (Civil & Structural) QLD	Regn. No. 9985
Registered Certifying Engineer (Structural) N.T.	Regn. No. 116373ES
Registered Engineer - (Civil) VIC	Regn. No. EC36692
Registered Engineer - (Civil) TAS	Regn. No. CC5648M

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MEMBER AND MATERIAL SCHEDULE

1	END WALL RAFTER	Single C20015
2	C.S. FRAME RAFTER	Single C20024
3	END FRAME COLUMN (C1)	Single C20015
4	END FRAME OPEN CORNER COLUMN (C1)	Single C20015
5	C.S. FRAME COLUMN (C2)	Single C20024
6	MULLION (C3)	Single C15015
7	C.S. FRAME KNEE BRACE	Single C15015 @ 1.47 LONG 3 bolts each end
8	KNEE BRACE HEIGHT UP COLUMN	2.38m
9	KNEE BRACE LENGTH UP RAFTER	0.70m
10	C.S. FRAME APEX BRACE	Single C15015 @ 2.86 LONG 3 bolts each end
11	APEX POSITION FROM RAFTER END	1.42m
12	ANCHOR BOLTS (# PER DETS.)	Sleeve Anchor 16.0x110 ZY
13	EAVE PURLIN	C10015 (Eave Purlin Bracket 24mm down from top of column)
14	TYP. ROOF PURLIN SIZE	Tophat 64 x 1.0
15	MAIN BLDG. PURLIN SPACING	0.737 m. (6 rows) (Max Allow. 0.825m)
16	MAIN BLDG. PURLIN LENGTH	4.13 m. (0.38m Overlap)
17	TYP. SIDEWALL GIRTS SIZE	Tophat 64 x 1.0
18	MAIN BLDG. SIDEWALL GIRTS SPACING	0.799 m. (4 rows) (Max Allow. 1.054m)
19	MAIN BLDG. SIDEWALL GIRTS LENGTH	4.13 m. (0.38m Overlap)
20	TYP. ENDWALL GIRTS SIZE	Tophat 64 x 1.0
21	MAIN BLDG. ENDWALL GIRTS SPACING	0.939 m. (4 rows) (Max Allow. 1.157m)
22	MAIN BLDG. ENDWALL GIRTS LENGTH	2.92 m. (0.1m Overlap)
23	FRAME SCREW FASTENERS	14-13x22 Hex C/S (SP HD 5/16" Hex Drive)
24	FRAME BOLT FASTENERS	Purlin Assy M12x30 Z/P
25	X-BRACING STRAP AND FASTENERS	Single Bracing Strap Per Roll Light
26	WALL COLOUR	COLORBOND
27	ROOF COLOUR	COLORBOND
28	ROLLER DOOR COLOUR	COLORBOND
29	GLASS SLIDING DOOR COLOUR	COLORBOND
30	ROOF VENT COLOUR	COLORBOND
31	DOWNPIPE COLOUR	COLORBOND
32	GUTTER COLOUR	COLORBOND
33	CORNER FLASHING COLOUR	COLORBOND
34	BARGE FLASHING COLOUR	COLORBOND
35	OPENING FLASHING COLOUR	COLORBOND
36	OPEN BAY HEADER HEIGHT	0.5

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

5 OF 6
SHEET
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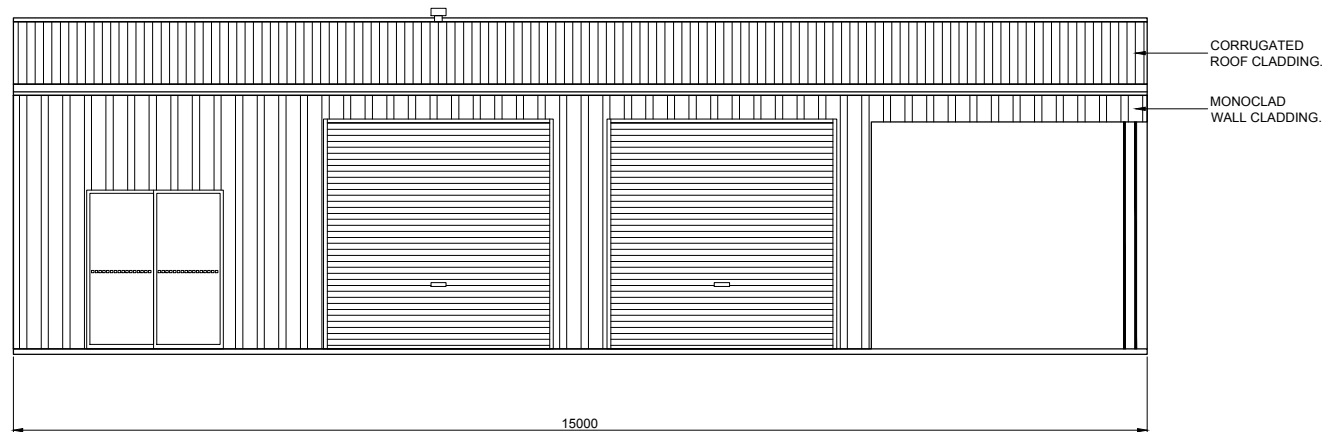
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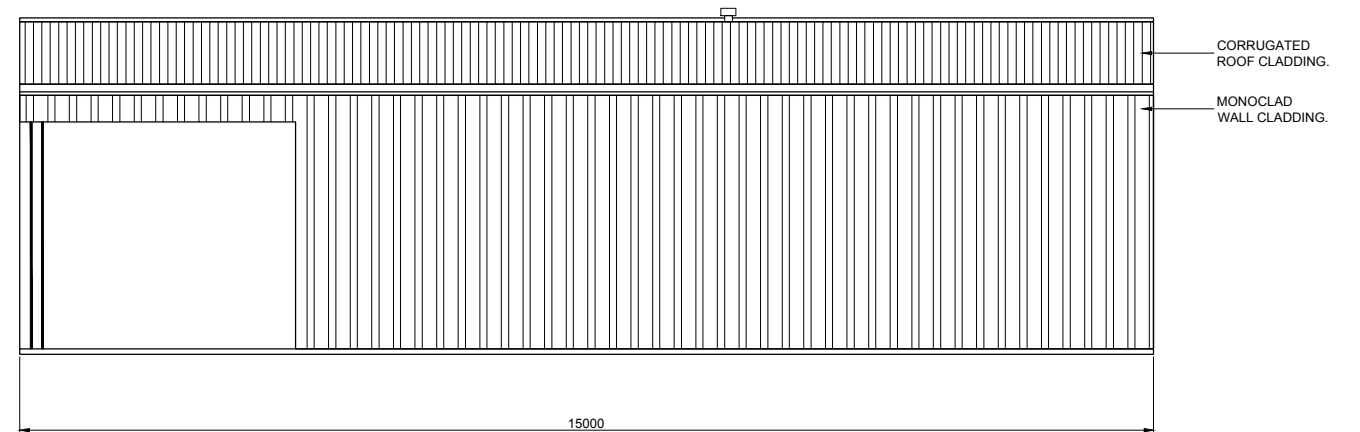
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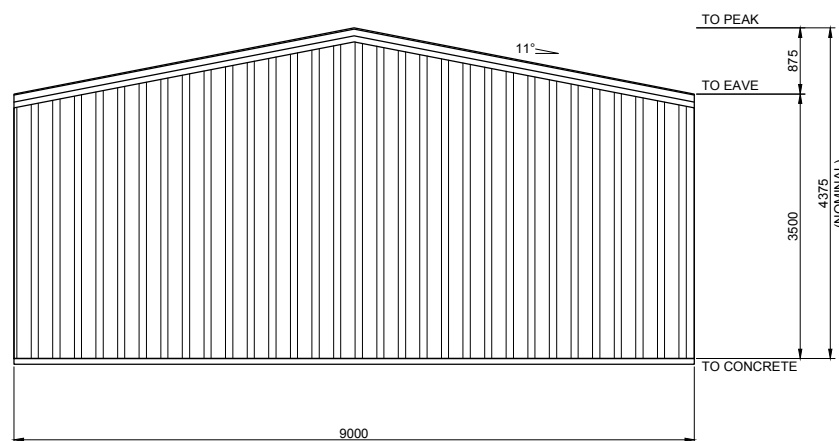
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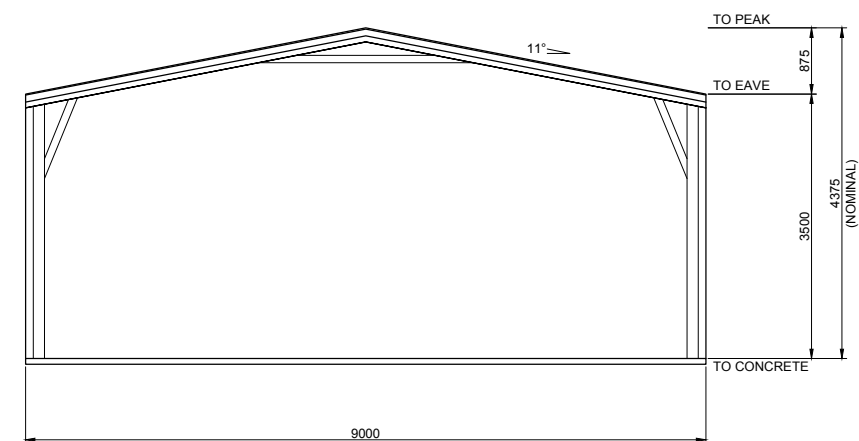
1
6 SIDEWALL EXTERIOR ELEVATION
SCALE: 1 = 100



2
6 SIDEWALL EXTERIOR ELEVATION
SCALE: 1 = 100



4
6 ENDWALL EXTERIOR ELEVATION
SCALE: 1 = 100



3
6 ENDWALL EXTERIOR ELEVATION
SCALE: 1 = 100

BUILDING COLOURS

WALL	COLORBOND
ROOF	COLORBOND
ROLLER DOOR	COLORBOND
GLASS SLIDING DOOR	COLORBOND
ROOF VENT	COLORBOND
DOWNPIPE	COLORBOND
GUTTER	COLORBOND
CORNER FLASHING	COLORBOND
BARGE FLASHING	COLORBOND
OPENING FLASHING	COLORBOND

6 OF 6 SHEET

JOB NO. BEND40728 NCC 2019

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Mr Timothy Roy Messer BE MIEAust RPEQ
Registered Professional Engineer 2558980

Signature *T. Messer*

Date 15/9/2020

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

Building Act 1993
Section 238(1) (a)
Building Regulations 2018
Regulation 126

CERTIFICATE OF COMPLIANCE FOR PROPOSED BUILDING WORK

This certificate is issued to: Paul Comer

Postal Address:

Postcode:

Email:

This certificate is issued in relation to the proposed building work at:

Address of Building: 37 REMMINGTON CRT
HUNTLY

Postcode: 3551

Nature of proposed building work

Construction of a new building

9m x 15m x 3.5m (span x O/A length x eave height),
Consisting of 4 bays at 3.75m frame spacings,

Produced by the MultiBuild building design program (previously certified by me).

Version of BCA applicable to certificate: 2019

Building Classification

Part of building: All

BCA Classification: 10a

Prescribed class of building work for which this certificate is issued:

Structural Design of Building Including Foundations

Documents setting out the design that is certified by this certificate

Document no.	Document date	Type of document	Number of pages	Prepared by
BEND40728	15/9/2020	Structural Drawings	6	FBHS Building Systems

***Performance solution**

A performance solution part of the design certified by this certificate.

**The design certified by this certificate complies with the following provisions of Building Act 1993
Building Regulations 2018 or National Construction Code**

Act, Regulation or NCC	Section, Regulation, Part, Performance Requirement or other provision
NCC 2019 Volume 1 & 2	Complies with the following provisions of the regulations **for Commercial use part B1 of Volume 1 NCC 2019, for Domestic use INCLUDES NCC PART 3.0 OF VOLUME 2 NCC 2019 & THE FOLLOWING AUSTRALIAN STANDARDS: AS/NZS 4600-2018, AS 3600-2018, AS 1170.1-2002 & .2-2011, AS 2870-2011

* I prepared the design, or part of the design, set out in the documents listed above.

I certify that the design set out in the documents listed above complies with the provisions set out above

I certify that the performance solution referred to above complies with the performance requirements listed.

I believe that I hold the required skills, experience and knowledge to issue this certificate and can demonstrate this if requested to do so.

Engineer

Name: Mr. Timothy Roy Messer

Address: 50 Punari Street, Currajong, Qld, 4812

Email: design@nceng.com.au

Building practitioner registration category and class: Engineer - Civil

Building practitioner registration no.: EC 36692 Vic.

Date of issue of certificate: 15/9/2020

Signature: 