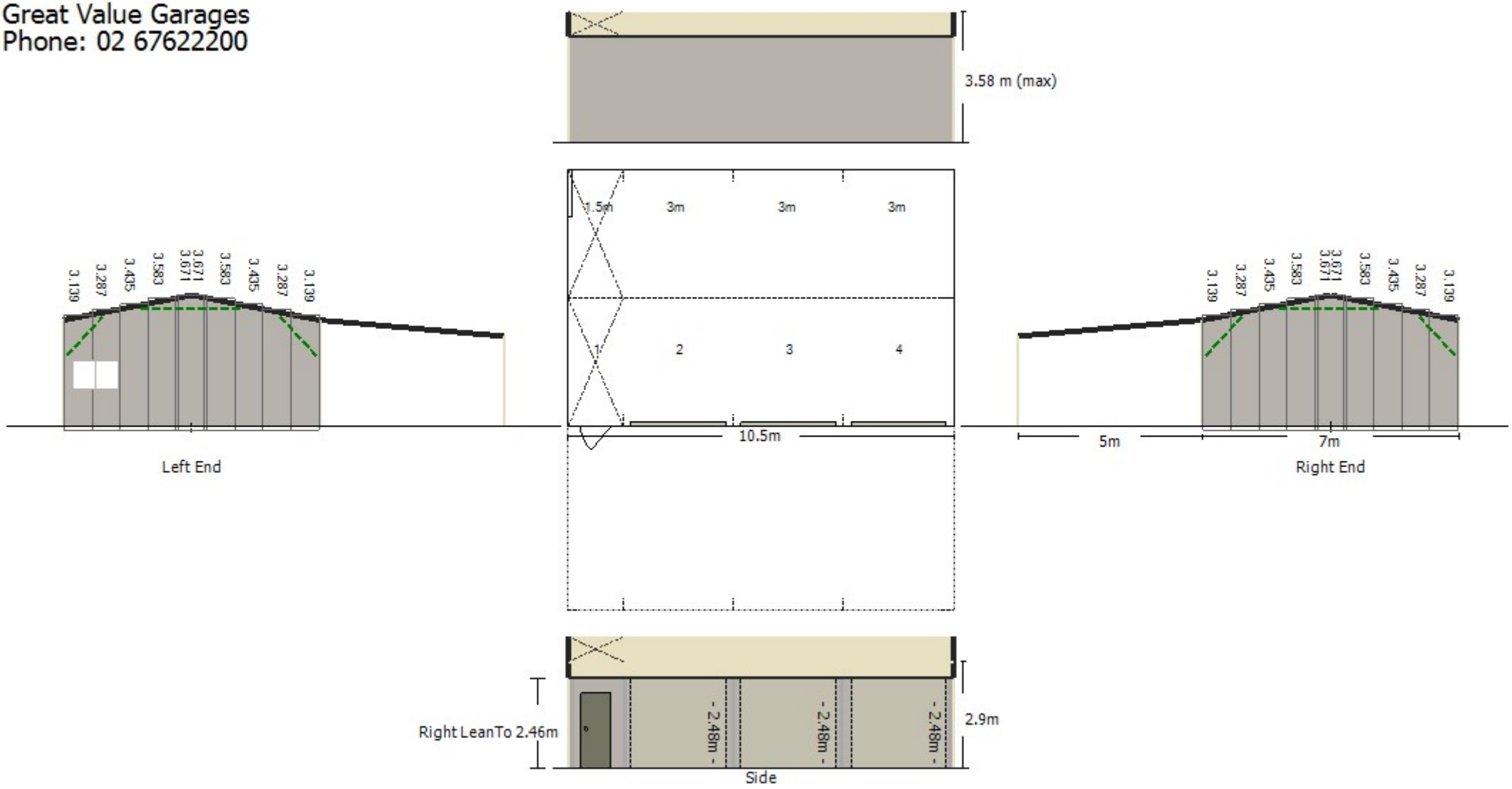
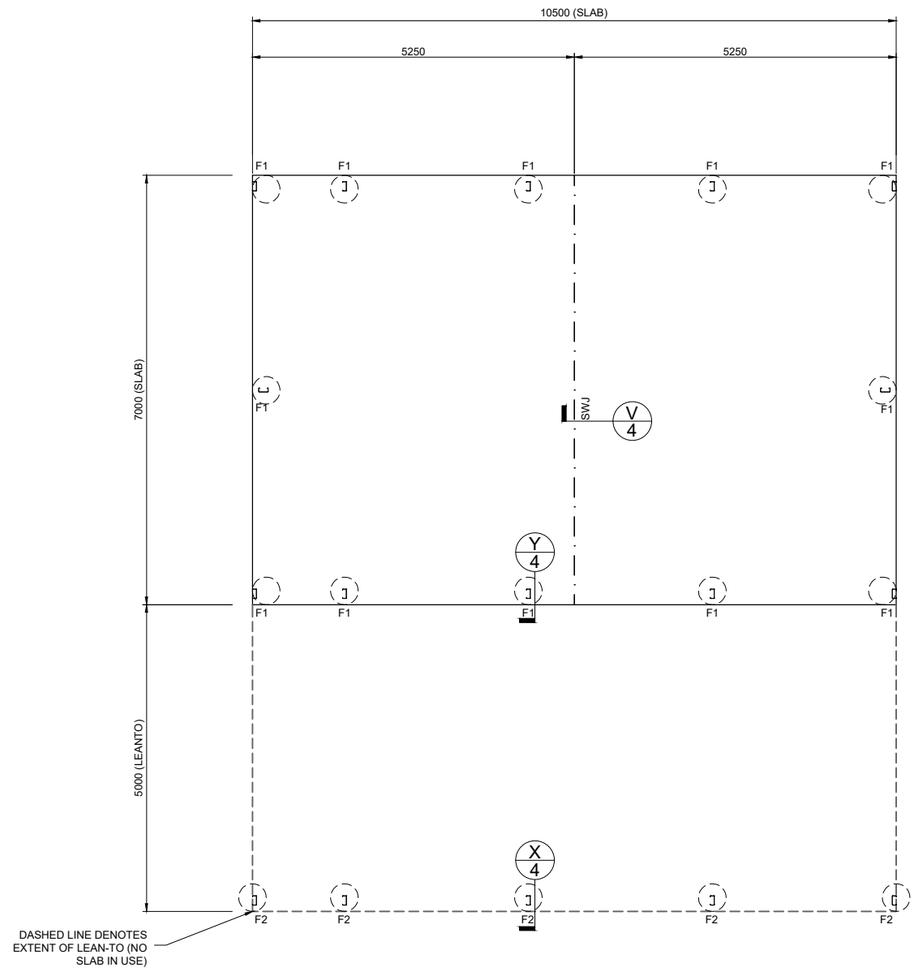
Building For:
Dominic Byrnes
29 Phillip St Duri
Job Number: 57954
Produced by:
Great Value Garages
Phone: 02 67622200



DS SRB

DS DFB

IF IN DOUBT, ASK.



1/1 SLAB AND FOUNDATION PLAN
SCALE: 1 = 100

CHANGES:
REFER NCE ENGINEERING REFERENCE - FDPJ13968

NOTES:
SLAB AND FOOTINGS DESIGNED FOR CLASS '10a' STRUCTURE ONLY
SLAB DESIGNED FOR CLASS 'H2' SOIL SITE CLASSIFICATION WITH DOMESTIC LOADING (UP TO 3kPa)
SWJ - SAWN JOINT DETAIL, MIN. 600mm AWAY FROM COLUMN
ROOF STRAP BRACING TO BE CONNECTED TO THE PURLIN CLOSEST TO THE LINE OF THE END WALL MULLION

FOOTING LEGEND
DIAMETER x DEPTH

F1	300Dia x 1200D
F2	300Dia x 1400D

SHEET 1 OF 8
JOB NO. GRVG57954
DATE 22/3/2022
CERTIFIED TM
DRAWN LHA
CHECK 2 NCE
CHECK 1 MH

STEEL BUILDING BY
(CONTACT)
GREAT VALUE GARAGES
02 67622200
FOR
DOMINIC BYRNES
AT
29 PHILLIP ST
DURI

SHED SAFE accredited

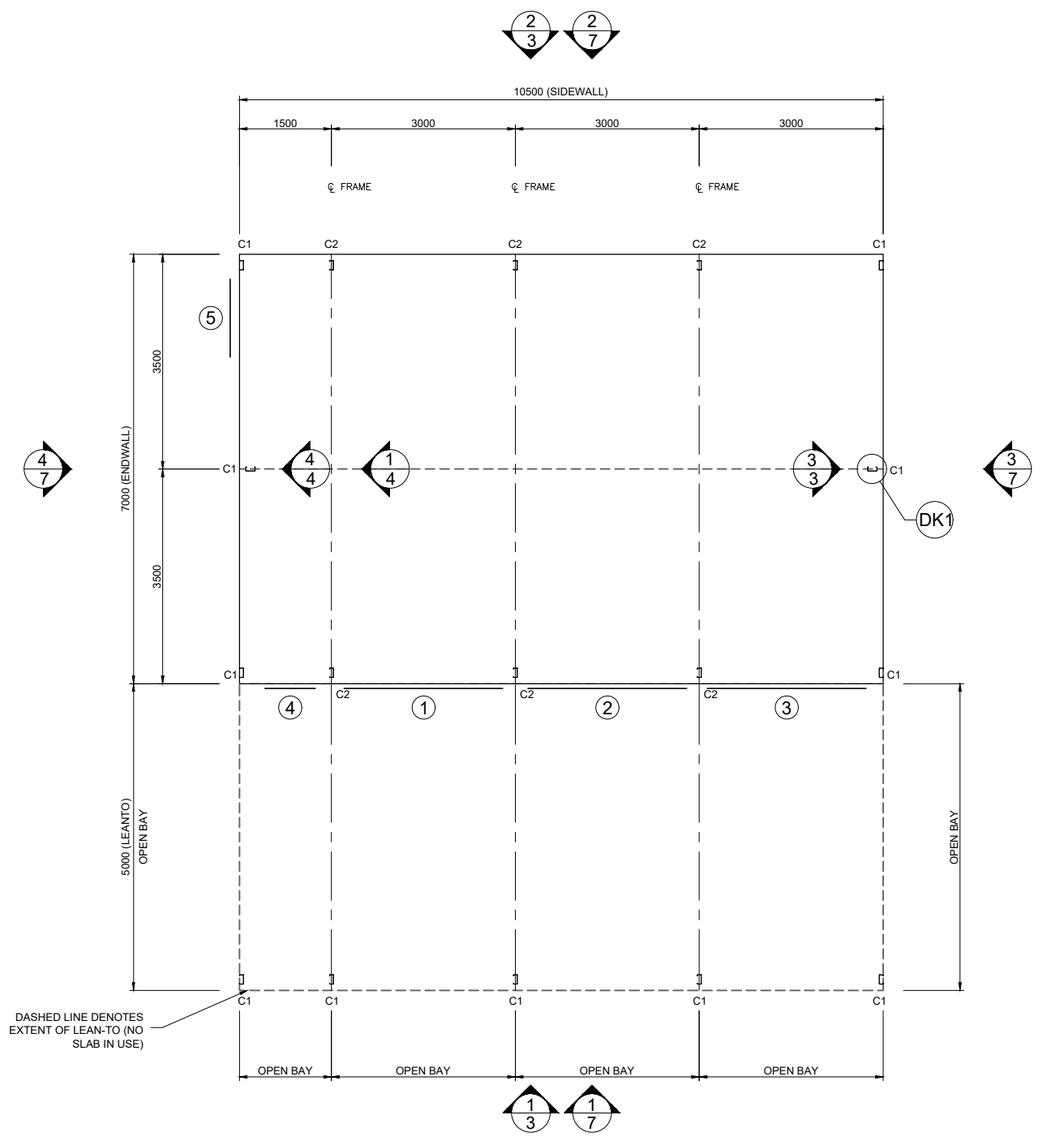
fairdinkum SHEDS

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 — 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

Mr Timothy Roy Messer BE MIEAust RPEQ
Signature T. Messer
Date 22/3/2022
Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register

IF IN DOUBT, ASK.



1/2 ROOF AND MEMBER LAYOUT
SCALE: 1 = 100

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

MEMBER LEGEND

C1	C15012
C2	C15015

SHEET 2 OF 8

JOB NO. GRVG57954

DATE 22/3/2022

CERTIFIED TM | DRAWN LHA

CHECK 2 NCE | CHECK 1 MH

STEEL BUILDING BY

(CONTACT)

GREAT VALUE GARAGES
02 67622200

FOR

DOMINIC BYRNES

AT

29 PHILLIP ST
DURI

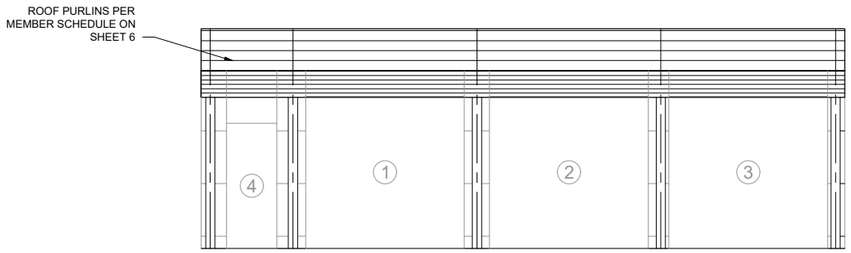
SHED SAFE accredited

fairdinkum SHEDS

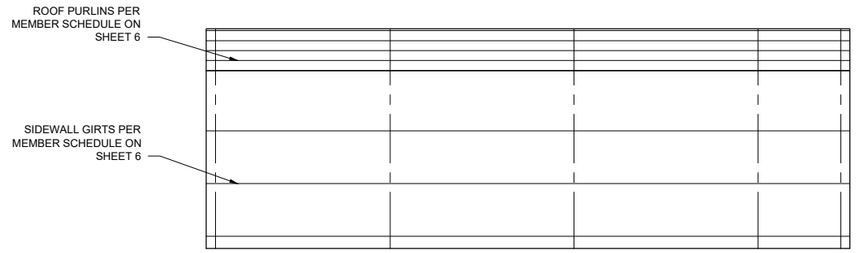
NORTHERN CONSULTING engineers
Civil & Structural Engineers
50 Punari Street
Currajong, Qld 4812
Fax: 07 4725 5850
Email: design@nceng.com.au
ABN 341 008 173 56

Registered Chartered Professional Engineer — 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

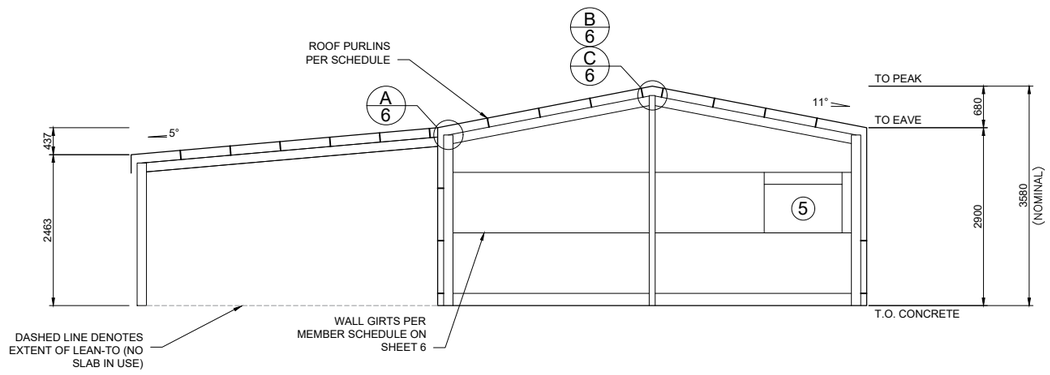
Mr Timothy Roy Messer BE MIEAust RPEQ
Signature .....
Date 22/3/2022
Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register



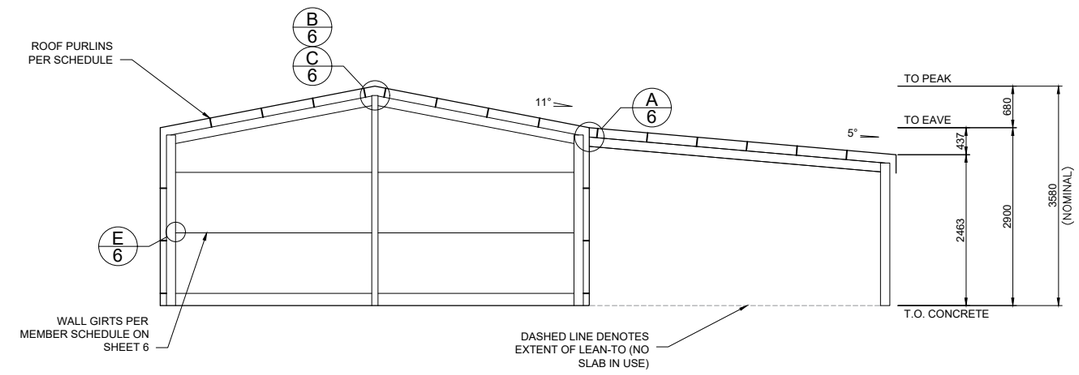
1/3 SIDEWALL EXTERIOR ELEVATION
SCALE: 1 = 100



2/3 SIDEWALL EXTERIOR ELEVATION
SCALE: 1 = 100



4/3 ENDWALL INTERIOR ELEVATION
SCALE: 1 = 100



3/3 ENDWALL INTERIOR ELEVATION
SCALE: 1 = 100

DIAGONAL X BRACING NOT REQUIRED IN THIS BUILDING.
CLADDING DIAPHRAGM SUFFICIENT.

SHEET 3 OF 8

JOB NO. GRVG57954

DATE 22/3/2022

CERTIFIED TM | DRAWN LHA

CHECK 2 NCE | CHECK 1 MH

STEEL BUILDING BY

(CONTACT)

GREAT VALUE GARAGES

02 67622200

FOR

DOMINIC BYRNES

AT

29 PHILLIP ST
DURI

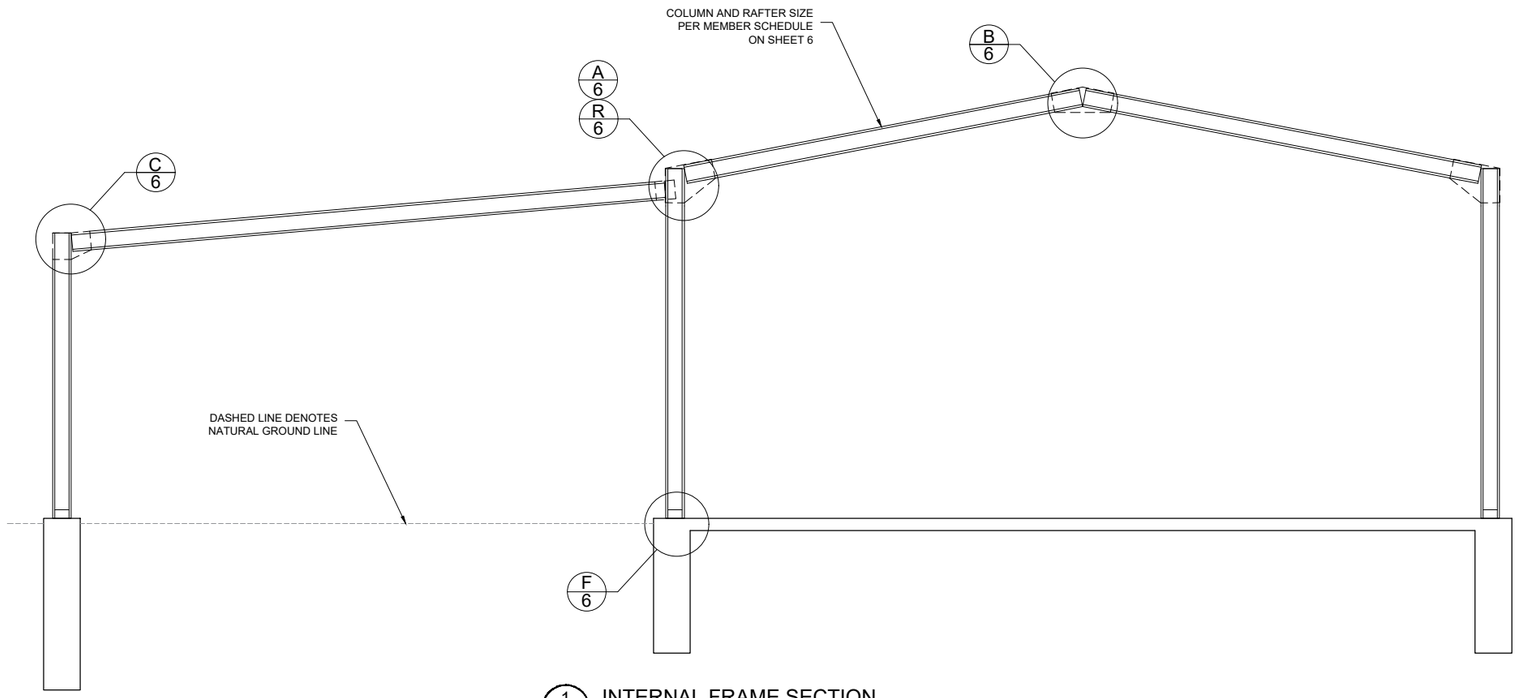
SHED SAFE accredited

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 — 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

Mr Timothy Roy Messer BE MIEAust RPEQ
Signature .....
Date 22/3/2022
Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register



1/4 INTERNAL FRAME SECTION
SCALE: 1 = 50

PROJECT DESIGN CRITERIA

ROOF LIVE LOAD:	0.25 kPa
BASIC WIND SPEED:	VR 45 m/s
SITE WIND SPEED:	VsitB 34.8 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 2.01
SOIL SAFE BEARING CAPACITY:	100 kPa
RETURN PERIOD:	1:500
LIMITING CPI 1:	-0.5
LIMITING CPI 2:	0.5
IMPORTANCE LEVEL:	2

SCHEDULE OF OPENINGS

DOOR	OPENING SIZE MAX WIDTH	OPENING SIZE MAX HEIGHT	OPENING TYPE	HEADER GIRT	OPENING JAMBS	WIND RATED
1	2590	2480*	2.50H X 2.65 CB *SERIES A #	SINGLE	XSRDTS6430	NO
2	2590	2480*	2.50H X 2.65 CB *SERIES A #	SINGLE	XSRDTS6430	NO
3	2590	2480*	2.50H X 2.65 CB *SERIES A #	SINGLE	XSRDTS6430	NO
4	820	2040	EXTERNAL PA DOOR 180 DEG	SINGLE		NO
5	1270	790	WINDOW	SINGLE		YES

NOTES: 1) SEE SHEET 6 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.

DETAIL KEYS

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

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 OCCOUPIED 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 FUTHER 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.
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 & 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.
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.

SHEET 4 OF 8 | JOB NO. GRVG57954 | DATE 22/3/2022 | CERTIFIED TM | DRAWN LHA | CHECK 2 NCE | CHECK 1 MH

STEEL BUILDING BY

FOR

AT

(CONTACT)
GREAT VALUE GARAGES
02 67622200
DOMINIC BYRNES
29 PHILLIP ST
DURI

SHED SAFE accredited

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	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

Mr Timothy Roy Messer BE MIEAust RPEQ
Signature .....
Date 22/3/2022
Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register

ENGINEERING SPECIFICATION:

GENERAL

This drawing shall be read in conjunction with Fair Dinkum Homes and Sheds Drawings.

Allow for falls to wastes, set downs for tiles & weather steps.

At all times during construction water must be drained away from the building. Ponding must not be allowed to remain along the sides of the building or in trenches close to the building.

All downpipes, tap outlets, condensate, drains etc. are to be drained away from the building and discharged to an outfall or an area remote from the building.

Refer to engineer for footings details if site conditions other than assumed are encountered.

The ground and slabs are to be treated for termites in accordance with Australian Standards and council requirements. (Optional for Class 10a structures).

Damp-proofing membranes to be provided under slab in South Australia and areas prone to rising damp and salt attack. (Optional for Class 10a structures).

A site specific Geotechnical investigation is recommended.

All footings are to be placed into firm, natural, undisturbed ground unless written approval is received from the engineer.

The builder is to check for soft spots that may exist under footings and contact the engineer if in doubt to the foundation quality. All vegetation and soft soil beneath slabs and footings are to be removed before construction of filling commences. In the circumstance where trees beneath or close to the building pad are to be removed, they shall be removed wholly (including the main roots). Holes that are created due to removal of vegetation should be filled with soil matching the composition of the existing surrounding soil. If in doubt about the requirements for backfilling excavations resulting from removal of soft spots or tree stumps, contact the engineer.

Fill beneath slabs is to be granular, CBR as per table and compacted in layers of 150mm maximum to a minimum of 95% minimum dry density ratio (based on standard compaction) for cohesive soils, and to a minimum density index of 70% for cohesion less soils. Maximum fill depth 900mm, refer to engineer if greater depth of fill is required. It is the builder's responsibility to test the compaction to ensure compliance. All earth work to be in accordance with AS3798-2007.

CONCRETE

All concrete details and placement shall be performed in accordance with AS3600.

Minimum strength, Footings N25 MPa, Internal Slabs N25 MPa, Exposed Slabs N32 MPa. Maximum slump to be 80mm, max. 20mm aggregate. All concrete is to be mechanically vibrated and cured by an approved method for a minimum of 3 days. We recommend curing of slabs with ULTRA-CURE liquid membrane forming curing compound. For concrete members poured within 1km of the coast or for members in contact with water, tidal or splash zones refer to engineer for additional requirements.

Concrete NOT to be poured in temperatures below 5°C OR above 35°C.

Provide 2-N16 bars 1500mm long to u/s of mesh adjacent re-entrant corners. Where reinforcement has been cut to provide for services, an equivalent amount of trimming reinforcement is to be placed each side of the service.

Reinforcement is to be supported on approved bar chairs at 800 max. centres in both directions.

Unless otherwise noted, the following minimum reinforcement splices are required:

- N12 - 600mm lap
- N16 - 800mm lap
- Reinforcing fabric - One grid overlap plus 25mm.
- Trench mesh - 600mm

SERVICE

Avoid services beneath slabs wherever possible. Where services are placed beneath slabs:
- Provide 40mm of flexible sealant / lagging between pipes and penetrated concrete.
- Provide a flexible joint each side of the concrete and another within 500mm upstream and downstream, creating a short length of pipe each side of the short pipe through the concrete.

Service trench inverts are to slope away from the footings and be backfilled and compacted with clay from the site. Flexible joints are to be provided where services adjoin the building.

LANDSCAPING & MAINTENANCE

Trees must be kept well away from the building. Recommended minimum distance of at least the height of a mature tree and 1.5 times this for a group of trees.

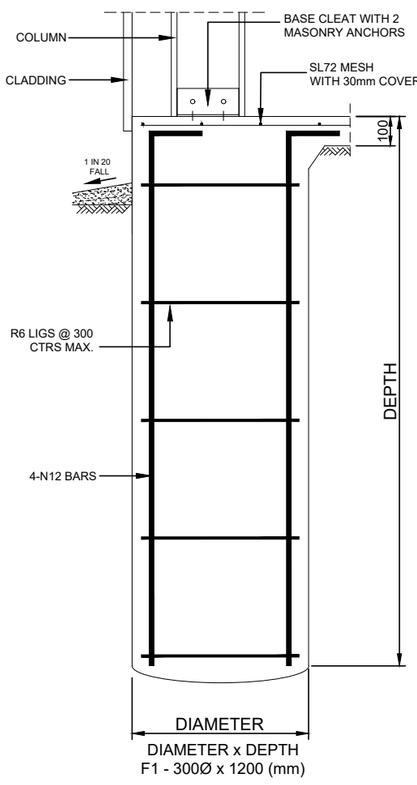
The builder should instruct the owner of his/her responsibility for maintenance of the area around the building in accordance with CSIRO sheet No. 10-91, especially with respect to surface water, trees and plumbing leaks.

SLAB DESIGN LOADINGS :

DOMESTIC
- Domestic storage (up to 3kPa)
- Foot traffic
- Garages mainly for private cars (up to 4.5t GVM)

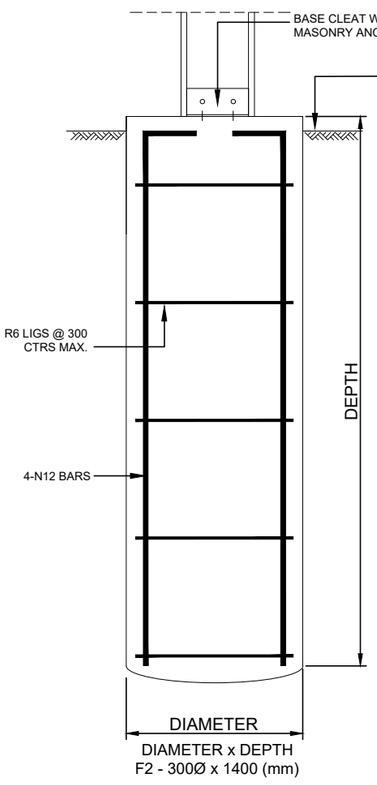
- Ground conditions min. 100 kPa & 3 CBR.
- Refer to Engineer if tiled flooring or internal walls are to be used within the structure.

SITE CLASS	SLAB LOADING	CONCRETE STRENGTH	ADDITIONAL SITE FILL	UNDER SLAB FILL	SLAB THICKNESS	SLAB REINFORCEMENT	RECOMMENDED JOINT SPACING	DSWJ/SJ JOINT REINFORCEMENT REQUIREMENTS	FOOTINGS AT COLUMN/ MULLION LOCATION	ADDITIONAL INFORMATION
H2	Domestic	25 MPa	N/A	N/A	As per Multibuild design information	SL72 mesh, 30 top cover	6m (9m max.)	R12 Bars at 300 max. cts.	As per Multibuild design information	Edge thickening not required for domestic applications but recommended



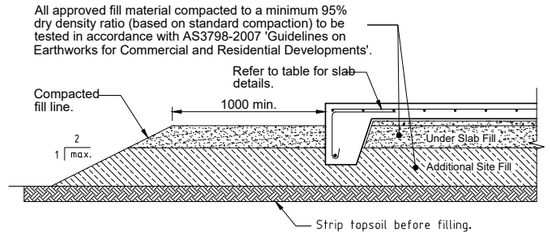
DIAMETER x DEPTH
F1 - 300Ø x 1200 (mm)

Y/5 LOCAL THICKENING DETAIL
SCALE: NTS

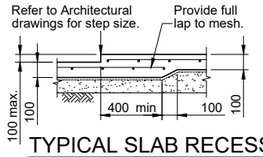


DIAMETER x DEPTH
F2 - 300Ø x 1400 (mm)

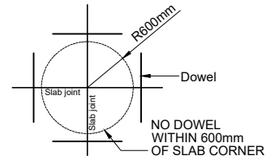
X/5 LOCAL THICKENING DETAIL
SCALE: NTS



TYPICAL FILL UNDER SHED SLAB PROFILE

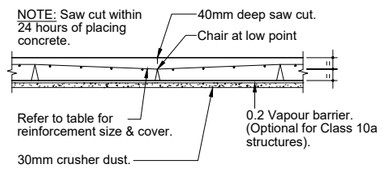


TYPICAL SLAB RECESS



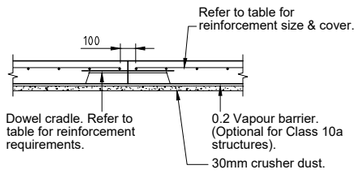
SLAB JOINT INTERSECTION DETAIL

JOINTING NOTES:
1. A DSWJ or SJ joint MUST BE provided in lieu of every THIRD SWJ joint.
2. Joints to be located min. 600 from column locations.
3. Crack inducer is recommended for slabs greater than 150 thick,
4. Where possible, joints should be located to create square slab panels. Maximum recommended ratio of sides is 1.5:1.

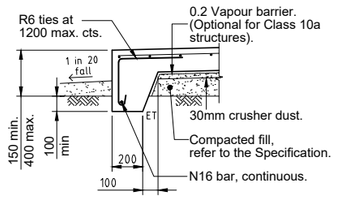


V/5 SAWN JOINT (SWJ)
SCALE: NTS

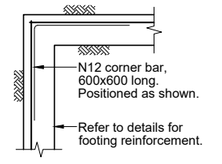
ADDITIONAL SLAB DETAILS - USE AS REQUIRED



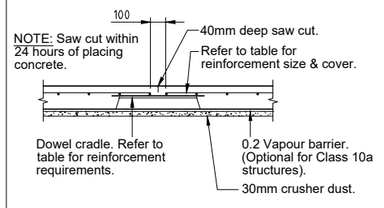
SLAB JOINT (SJ)



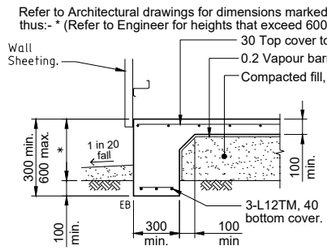
EDGE THICKENING (ET)



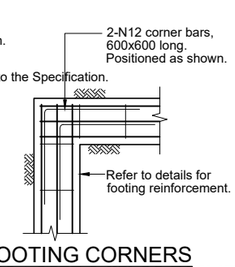
ET FOOTING CORNERS



DOWELLED SAWN JOINT (DSWJ)



EDGE BEAM-TYPICAL (EB)
EDGE THICKENING (ET) ALTERNATIVE



FOOTING CORNERS BOTTOM REINFORCEMENT

TYPICAL SLAB AND FOOTING LAYOUTS FOR 'H2' CLASS SITES

For NCC class 10a buildings

SHEET 5 OF 8 | JOB NO. GRVG57954 | DATE 22/3/2022 | CERTIFIED TM | DRAWN LHA | CHECK 2 NCE | CHECK 1 MH

STEEL BUILDING BY

FOR

AT

(CONTACT)
GREAT VALUE GARAGES
02 67622200
DOMINIC BYRNES
29 PHILLIP ST
DURI

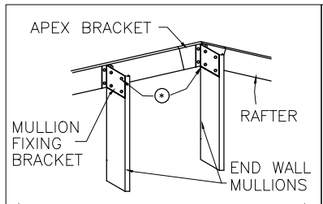
SHED SAFE accredited

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

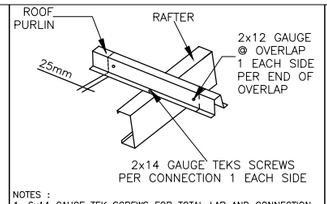
Registered Chartered Professional Engineer — Regn. No. 2558980
Registered Professional Engineer (Civil & Structural) QLD — Regn. No. 9985
Registered Certifying Engineer (Structural) N.T. — Regn. No. 116373ES
Registered Engineer - (Civil) VIC — Regn. No. EC36692
Registered Engineer - (Civil) TAS — Regn.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

Mr Timothy Roy Messer BE MIEAust RPEQ
Signature .....
Date 22/3/2022
Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register



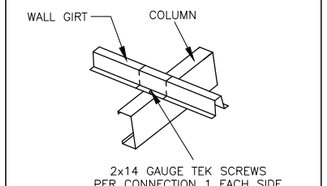
(* Refer to member schedule for Bolt size).

C | MULLION FIXING ANGLE BRACKET | DWG NO MFA4

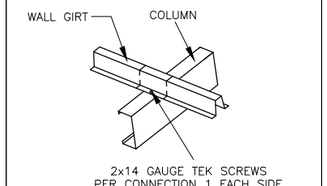


NOTES :
1. 6x14 GAUGE TEK SCREWS FOR TOTAL LAP AND CONNECTION
2. SCREWS IN LAP LOCATED 25mm FROM END OF LAP

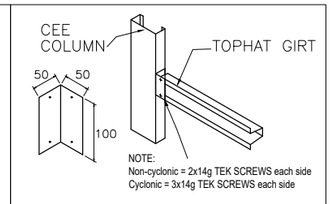
D_P | PURLIN CONNECTION DETAIL | DWG NO PCON1L



D_G | GIRT CONNECTION DETAIL | DWG NO GCON1N

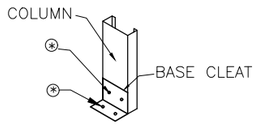


E_G | ENDWALL GIRT CONNECTION DETAIL | DWG NO EGCON1N



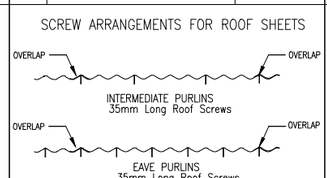
End Wall Girt Bracket

E | END WALL GIRT CONNECTION | DWG NO EG1-PH

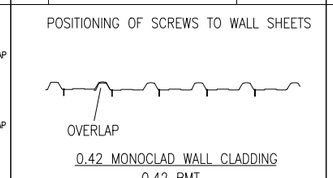


Note: * Refer to Member Schedule for Screw Anchors and Frame Bolts.

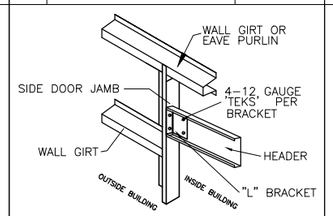
F | BASE CONNECTION | DWG NO BC5



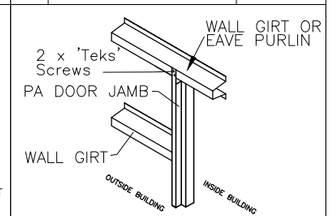
G | ROOF SHEETING PROFILE | DWG NO R0NC3



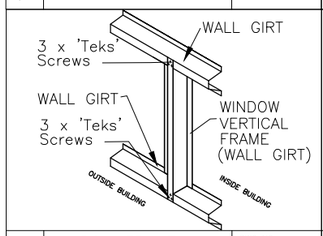
H | WALL SHEET PROFILE | DWG NO W1NC4



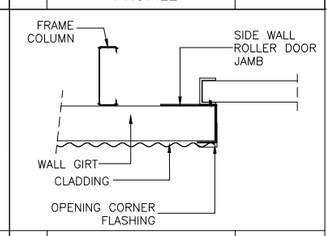
I | SIDE DOOR SUPPORT CONNECTION | DWG NO DFRS



K | PERSONAL ACCESS DOOR | DWG NO PADD1



W | WINDOW FRAME ATTACHMENT DETAIL | DWG NO WADT



U | SIDEWALL ROLLER DOOR JAMB | DWG NO SRDJ

MEMBER AND MATERIAL SCHEDULE

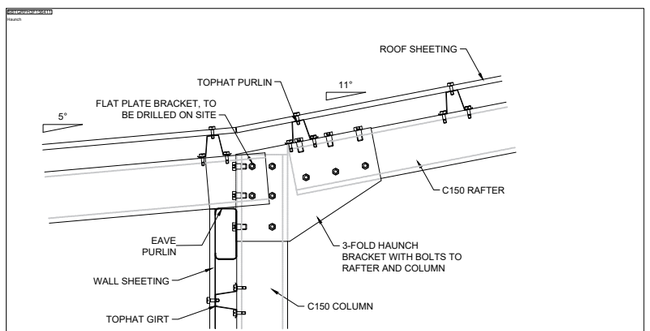
ITEM TO CHANGE IN BOM

1	END WALL RAFTER	Single C15012	
2	C.S. FRAME RAFTER	Single C15015	
3	END FRAME COLUMN (C1)	Single C15012	
4	C.S. FRAME COLUMN (C2)	Single C15015	
5	MULLION (C1)	Single C15012	
6	RL END FRAME OPEN CORNER COLUMN (C1)	Single C15012	
7	RL OPEN BAY COLUMN (C1)	Single C15012	
8	END WALL RL RAFTER	Single C15012	
9	C.S. RL RAFTER	Single C15015	
10	ANCHOR BOLTS (# PER DETS.)	Screw Anchor 12mm x 100 Galv	
11	EAVE PURLIN	C15012 (Eave Purlin 53mm above top of column)	
12	RIGHT LEANTO EAVE PURLIN	C15012 (Eave Purlin 59mm above top of column)	
13	TYP. ROOF PURLIN SIZE	Tophat 64 x 0.75	
14	MAIN BLDG. PURLIN SPACING	0.853 m. (4 rows) (Max Allow. 1.000m)	
15	RIGHT LEANTO PURLIN SPACING	0.816 m. (6 rows) (Max Allow. 1.000m)	
16	TYP. SIDEWALL GIRT SIZE	Tophat 64 x 0.75	
17	MAIN BLDG. SIDEWALL GIRT SPACING	0.858 m. (3 rows) (Max Allow. 1.134m)	
18	RIGHT LEANTO SIDEWALL GIRT SPACING	0.712 m. (0 rows) (Max Allow. 1.044m)	
19	TYP. ENDWALL GIRT SIZE	Tophat 64 x 0.75	
20	MAIN BLDG. ENDWALL GIRT SPACING	0.987 m. (3 rows) (Max Allow. 1.075m)	
21	MAIN BLDG. ENDWALL GIRT LENGTH	3.38 m. (0.1m 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	X-BRACING STRAP AND FASTENERS	None required for this building. Cladding Diaphragm Sufficient.	
25	WALL COLOUR	DUNE	
26	ROOF COLOUR	CLASSIC_CREAM	
27	ROLLER DOOR COLOUR	EVENING_HAZE	
28	P.A. DOOR COLOUR	MANGROVE	
29	WINDOW COLOUR	DUNE	
30	DOWNPIPE COLOUR	NIGHT_SKY	
31	GUTTER COLOUR	NIGHT_SKY	
32	CORNER FLASHING COLOUR	CLASSIC_CREAM	
33	BARGE FLASHING COLOUR	NIGHT_SKY	
34	OPENING FLASHING COLOUR	NIGHT_SKY	
35	OPEN BAY HEADER HEIGHT	0.5	

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

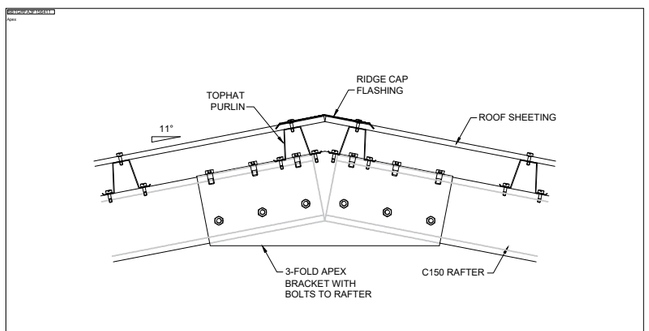
PURLIN AND GIRT LENGTHS

BAY	WIDTH	PURLIN LENGTH	GIRT LENGTH
1	1.5m	1.65 m. (0.15m Lap)	1.6 m. (0.1m Lap)
2	3m	3.23 m. (0.23m Lap)	3.1 m. (0.1m Lap)
3	3m	3.3 m. (0.3m Lap)	3.1 m. (0.1m Lap)
4	3m	3.15 m. (0.15m Lap)	3.1 m. (0.1m Lap)



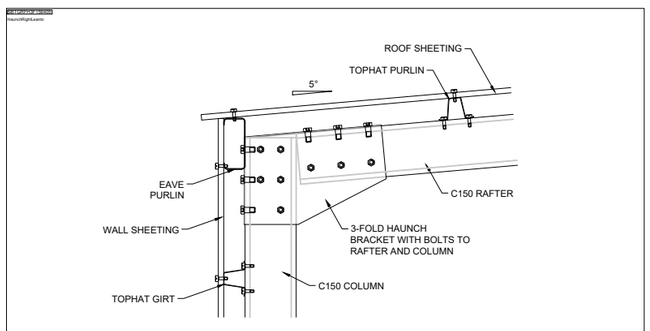
REFER TO MEMBER SCHEDULE ON THE ENGINEERING PLANS FOR COMPONENT SPECIFICATIONS

LEAN-TO CONNECTION A
C150 - TOPHAT 64 - 11° 6



REFER TO MEMBER SCHEDULE ON THE ENGINEERING PLANS FOR COMPONENT SPECIFICATIONS

APEX CONNECTION B
C150 - TOPHAT 64 - 11° 6



REFER TO MEMBER SCHEDULE ON THE ENGINEERING PLANS FOR COMPONENT SPECIFICATIONS

HAUNCH CONNECTION C
C150 - TOPHAT 64 - 5° 6

SHEET 6 OF 8

JOB NO. GRVG57954

DATE 22/3/2022

CERTIFIED TM | DRAWN LHA

CHECK 2 NCE | CHECK 1 MH

STEEL BUILDING BY

(CONTACT)

GREAT VALUE GARAGES
02 67622200

FOR

DOMINIC BYRNES

AT

29 PHILLIP ST
DURI

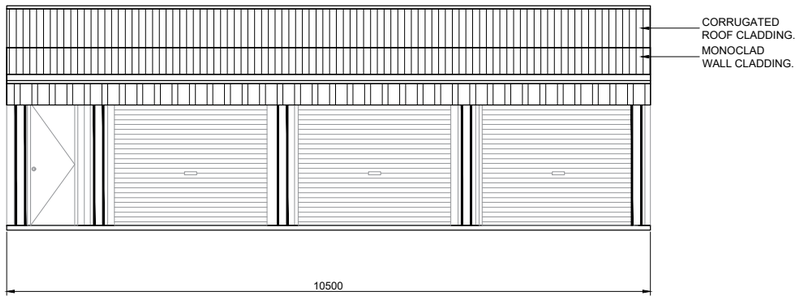
SHED SAFE accredited

fairdinkum SHEDS

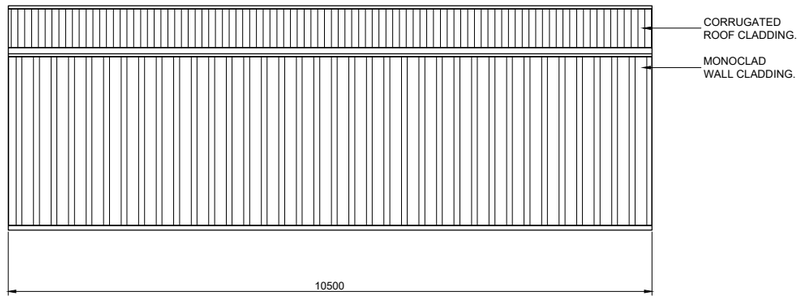
NORTHERN CONSULTING engineers
Civil & Structural Engineers
50 Punari Street
Currajong, Qld 4812
Fax: 07 4725 5850
Email: design@nceng.com.au
ABN 341 008 173 56

Registered Chartered Professional Engineer — 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

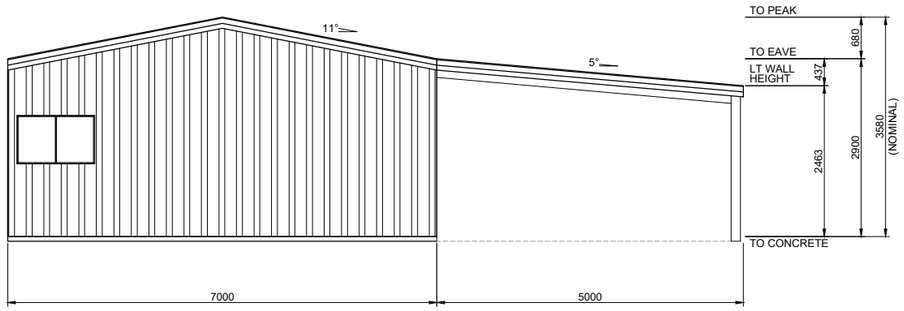
Mr Timothy Roy Messer BE MIEAust RPEQ
Signature .....
Date 22/3/2022
Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register



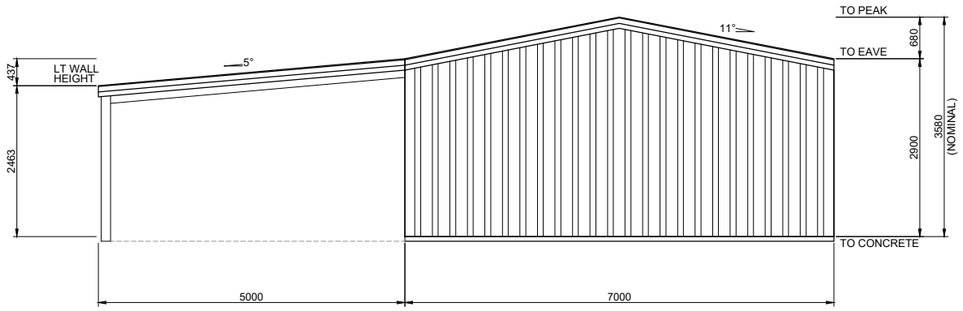
1/7 SIDEWALL EXTERIOR ELEVATION
SCALE: 1 = 100



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	DUNE
ROOF	CLASSIC CREAM
ROLLER DOOR	EVENING HAZE
P.A. DOOR	MANGROVE
WINDOW	DUNE
DOWNPIPE	NIGHT SKY
GUTTER	NIGHT SKY
CORNER FLASHING	CLASSIC CREAM
BARGE FLASHING	NIGHT SKY
OPENING FLASHING	NIGHT SKY

SHEET 7 OF 8

JOB NO. GRVG57954

DATE 22/3/2022

CERTIFIED TM | DRAWN LHA

CHECK 2 NCE | CHECK 1 MH

STEEL BUILDING BY

(CONTACT)

GREAT VALUE GARAGES

02 67622200

FOR

DOMINIC BYRNES

AT

29 PHILLIP ST
DURI

SHED SAFE accredited

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	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

Mr Timothy Roy Messer BE MIEAust RPEQ

Signature .....

Date 22/3/2022

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

GUIDE TO THE INSTALLATION OF TEMPORARY BRACING

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

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

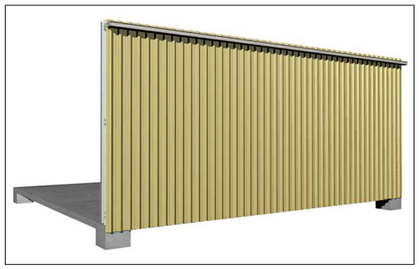
FOR STRUCTURES UNDER 9M SPAN, LESS THAN 3M HIGH AND LESS THAN 12M LONG

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

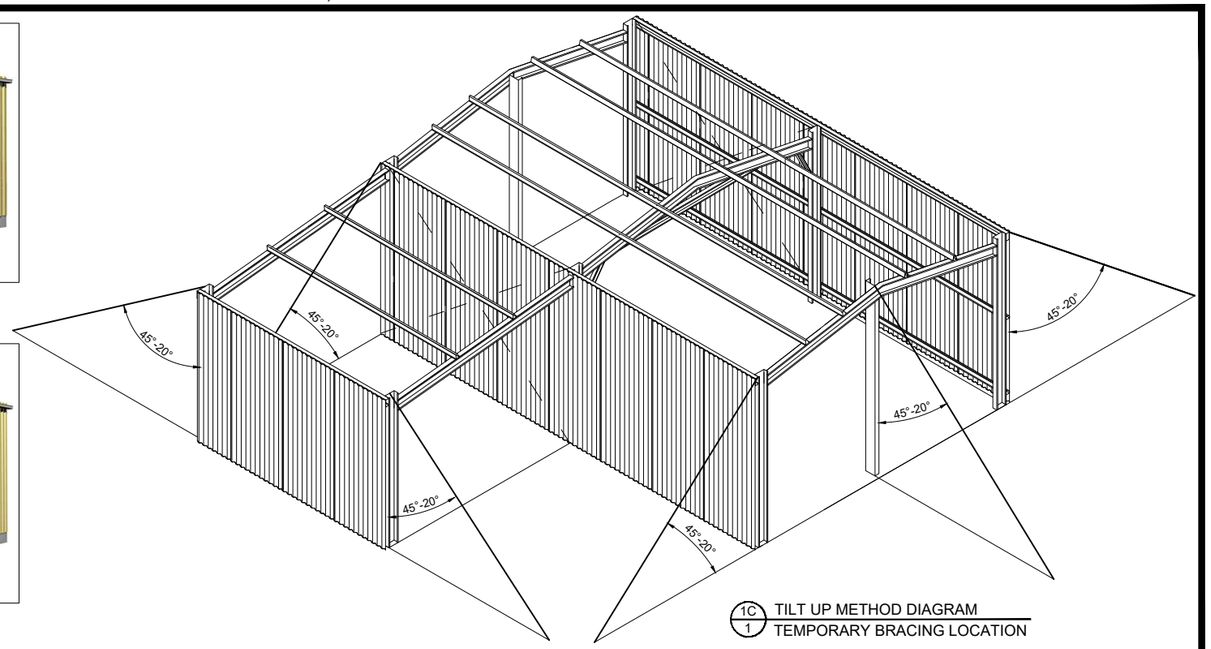
FOR STRUCTURES OVER 9M SPAN, GREATER THAN 3M HIGH AND GREATER THAN 12M LONG

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.



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

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

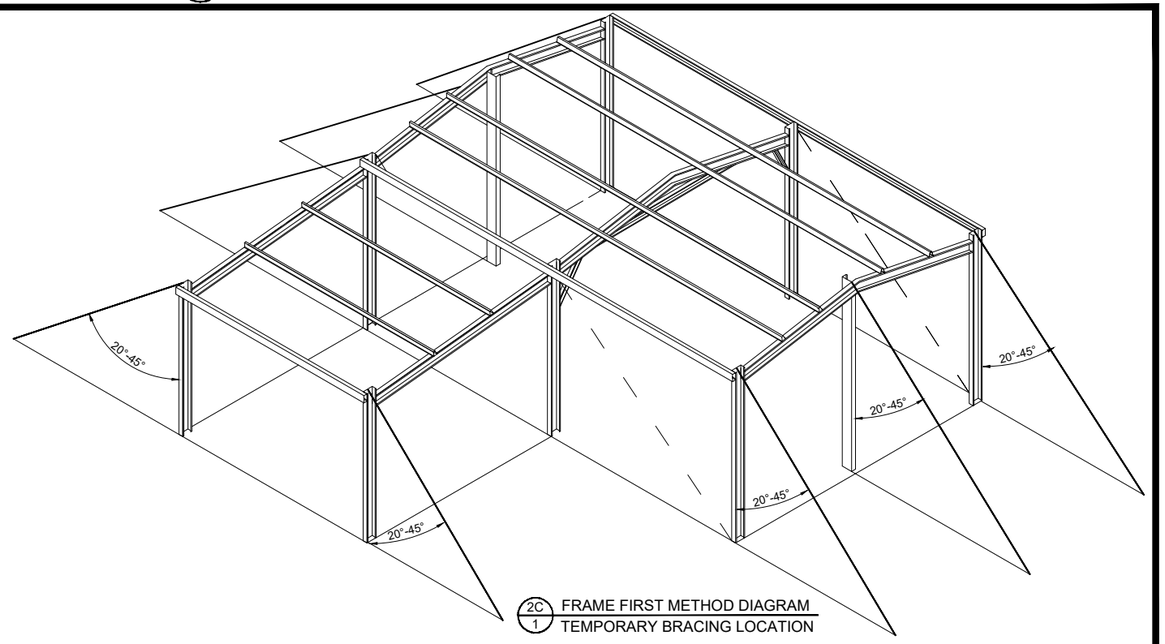


1C/1 TILT UP METHOD DIAGRAM
TEMPORARY BRACING LOCATION

1/1 TILT UP METHOD DIAGRAM
SCALE: NTS

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

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



2C/1 FRAME FIRST METHOD DIAGRAM
TEMPORARY BRACING LOCATION

2/1 FRAME FIRST METHOD DIAGRAM
SCALE: NTS

SHEET 8 OF 8

JOB NO. GRVG57954

DATE 22/3/2022

CERTIFIED TM | DRAWN LHA | CHECK 2 NCE | CHECK 1 MH

STEEL BUILDING BY (CONTACT)
GREAT VALUE GARAGES
02 67622200

FOR
DOMINIC BYRNES

AT
29 PHILLIP ST
DURI

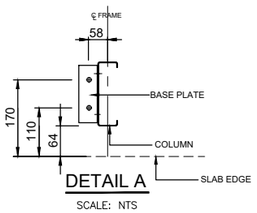
SHED SAFE accredited

fairdinkum SHEDS

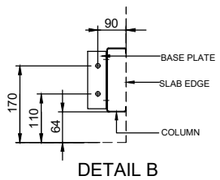
NORTHERN CONSULTING engineers
Civil & Structural Engineers
50 Punari Street
Currajong, Qld 4812
Fax: 07 4725 5850
Email: design@nceng.com.au
ABN 341 008 173 56

Registered Chartered Professional Engineer — 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

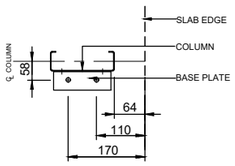
Mr Timothy Roy Messer BE MIEAust RPEQ
Signature .....
Date 22/3/2022
Registered on the NPER in the areas of practice of Civil & Structural National Professional Engineers Register



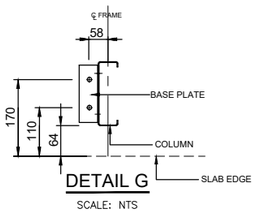
DETAIL A
SCALE: NTS



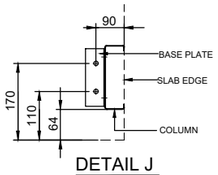
DETAIL B
SCALE: NTS



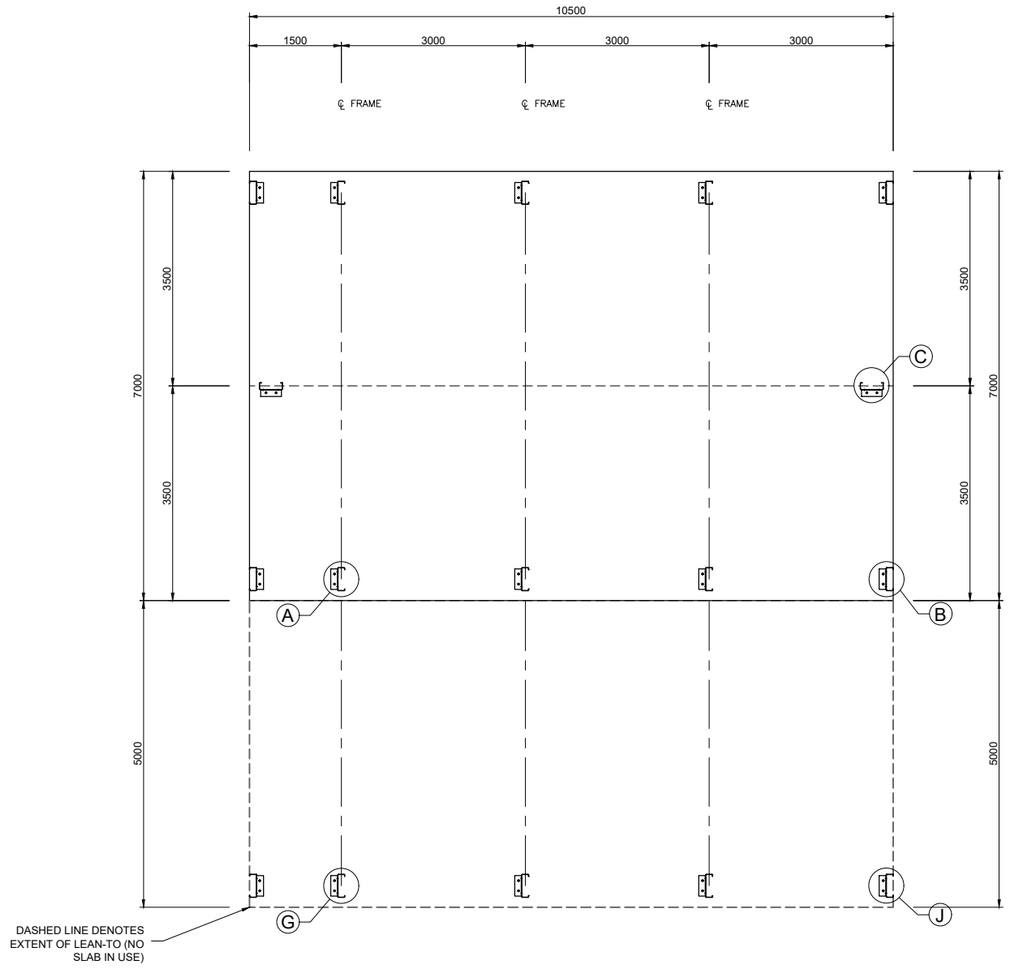
DETAIL C
SCALE: NTS



DETAIL G
SCALE: NTS



DETAIL J
SCALE: NTS



1/1 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. GRVG57954
DATE 22/3/2022
CHECKED TM
DRAWN FDS

STEEL BUILDING BY
GREAT VALUE GARAGES
02 67622200
FOR
DOMINIC BYRNES
AT
29 PHILLIP ST
DURI

23/3/2022

fairdinkum SHEDS

BOLT LAYOUT PLAN

COMPLIANCE CERTIFICATE FOR BUILDING DESIGN

Property Description

Street address (include number, street, suburb/locality & postcode)

29 PHILLIP ST

DURI Postcode : 2344

Description of Component/s Certified

Clearly describe the extent of work covered by this certificate.

Steel Portal Frame Structure.

7m span x 10.5m O/A length x 2.9m eaves height.

Consisting of 4 bays at 1.5m, 3m, 3m, 3m spacings.

Right leanto with 5m span.

Basis of Certification

Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications, were relied upon.

Australian Standards (list) AS/NZS 4600-2018, AS/NZS 1170.0,.1-2002, 1170.2-2011, 1170.3-2003, 1170.4-2007, AS2870-2011, AS3600-2018

2019 National Construction Code of Australia Amendment 1	NCC Building Classification: Class 10
Region AS1170.2 = Reg A	Factor for Region = NA
NCC Importance Level = 2	NCC Equivalent Wind class = N/A
Annual Probability Exceedance wind = 1:500	Design Roof Live Load = 0.25 kPa

Regional 3 s Gust Wind Speed for annual probability of exceedance V_R = 45 m/s

Wind directional multipliers for the 8 cardinal directions Md = 0.85

Terrain/Height multiplier (Mz, Cat) = 0.91	Shielding Multiplier Ms = 1
Topographic multiplier Mt = 1	Design Wind Speed = 34 m/s
Ext. Pressure Coefficient cpe = −1.15, 1.20	Int. Pressure Coefficient cpi = −0.5, 0.5

Reference Documentation

Clearly identify any relevant documentation, e.g numbered structural engineering plans

Drawing Nos: 'Fair Dinkum Sheds' Structural Design Drawing

To be read in conjunction with Pages 1 to 8

For Job Number: GRVG57954 DATED : 22/3/2022

Specifications:

Computations:

Test Reports:

Other Documentation:

Competent Person Details

A competent person for building work, means a person who is assessed by the building certifier for the work as competent to practise in aspect of the design, building or inspection of the building work because of the person's skill and experience in the aspect. The competent person must also be registered or licensed under a law applying in the state to practice the aspect.

A COPY OF A CURRENT CV AND PROFESSIONAL REGISTRATION DETAILS MUST BE PROVIDED WITH THE CERTIFICATE

Name:	Timothy Roy Messer
Company Name (If applicable):	Northern Consulting Engineers
Postal Address:	50 Punari Street, Currajong 4812
Contact Person:	Timothy Roy Messer
Telephone Number:	07 4725 5550
Mobile Number:	N/A
Fax Number:	07 4725 5850
Email Address:	design@nceng.com.au
License or Registration Number:	2558980 Copy of CV Attached: Tick Box

Y ☐ or N ☒

Signature of Competent Person

This form may be used by competent persons to certify the design of a material, system, method of building, building element design or other thing.

If the competent person is a licensed company the authorised person of the company is to sign the form.

I certify that the item/s described above, if installed or carried out in accordance with the information conatined in this certificate, including any referenced documentation, will comply with the National Construction Code of Australia/relevant Australian or International Standard.

Signature of competent person: T. Messer Date: 22/3/2022

LOCAL GOVERNMENT USE ONLY

Date received		Reference Number/s		