



Lysaght Building Solutions trading as Ranbuild  
ABN 61 103 232 444  
Level 1, 12 Beaumont Street Hamilton NSW 2303  
Telephone +61 2 4962 4311  
Facsimile +61 2 4962 3421  
www.ranbuild.com.au

Enquiries to: Alexander Filonov

2nd December 2025

The Manager  
Ranbuild  
PO Box 170  
HAMILTON NSW 2303



Dear Sir/Madam,

**Re: STRUCTURAL ADEQUACY OF STEEL FRAMED BUILDING**

Client: Lance Booth

Ranbuild Job No.: 441451

Type: Big G

Location: 56 McInness St MOORINE ROCK WA 6425

Plans: ENG1/1-441451, ENG2/1-441451, ENG3/1-441451, ENG3/2-441451, ENG4/1-441451,  
ENG4/2-441451, ENG5/1-441451, ENG5/2-441451, ENG6/1-441451, ENG6/2-441451,  
ENG7/1-441451, 441451-GA

Being a professional engineer within the meaning of NCC 2022 Volume Two, Part A5G3 with Ranbuild Sheds we have undertaken a structural analysis of the steel framed building as described above. These plans were analysed in accordance with NCC 2022 Volume Two, Under Part A5G3 as Evidence of Suitability, Schedule 2 Referenced Documents : AS/NZS 1170.1, AS/NZS 1170.2, AS/NZS 1170.4, AS 4100, AS 2870, AS 1562 Part 1 and AS/NZS 4600.

Building Class: 10a

Based on our structural analysis, we are satisfied that the standard engineering drawings attached can be used for the above site.

The following modifications are required and supersede where applicable any standard engineering drawings:

- All bracing shall be 68x1.6mm straps cross bracing
- Roof shall be braced in both end bays incl TS96100 struts.
- One bracing unit required on each perimeter wall
- Fascia =C15019
- Footings option with isolated bored piers shall be certified separately subject to availability of Geotechnical Report

Yours faithfully,

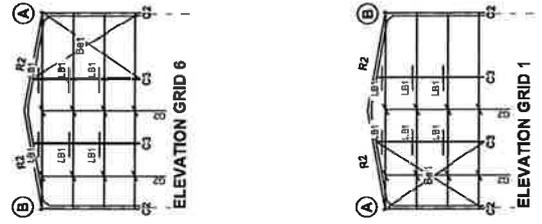
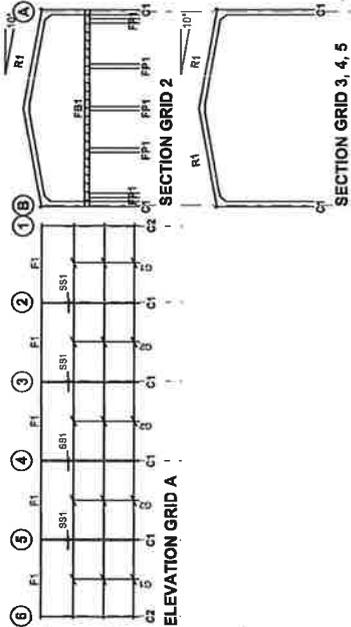
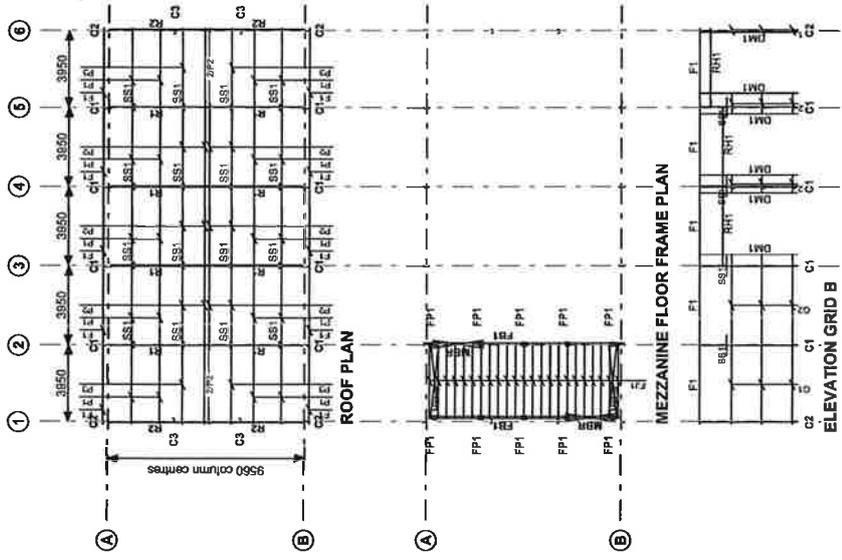
Alexander Filonov

MIEAust, CPEng, NPER, RPEQ 8094, CC4719P, PE0017560

Engineering Manager

Lysaght Building Solutions





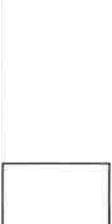
CLIENT	Lance Booth
SITE	56 McInnes St MOORINE ROCK WA 6425

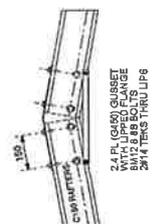
DRAWING NUMBER	BRGZT-14-R01
FOR BUILDING PERMIT STAGE	FOR BUILDING PERMIT STAGE
DRAWN	RDS
REV	A
SCALE	1:250
PAGE	A3
TITLE	STEEL FRAME DIAGRAMS

BUILDING TYPE	Office
GRID DIMENSION	10000S X 5800E X 20000D

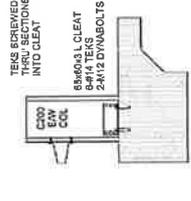
ACCREDITED PRACTITIONER	Alexander Ellis MEASUR, CPEng, NPER Level 1, 12 Beaumont St, Hamilton NSW 2303 +61 2 4882 4311 2/2/2025
-------------------------	---

Copyright 2025	Lysaght Building Solutions Pty Ltd trading as RANBUILD
----------------	--

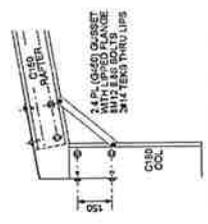




**APEX CONNECTION - AP1**



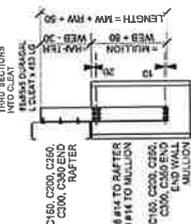
**E/W COLUMN BASE - EB2**



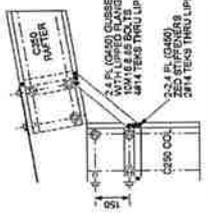
**KNEE CONNECTION - KN1**



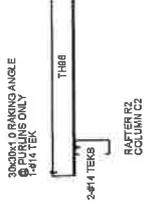
**APEX CONNECTION - AP3**



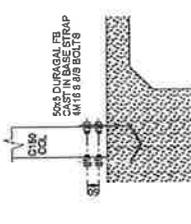
**E/W COLUMN TO RAFTER CONNECTION ER1**



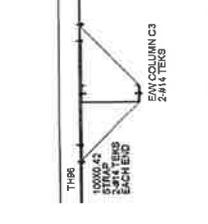
**KNEE CONNECTION - KN3**



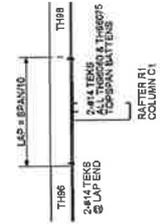
**BATTEN CONNECTION - BC1**



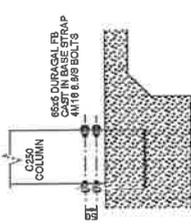
**FIXED BASE - FB1**



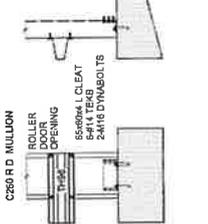
**LATERAL BRACE DET - LB1**



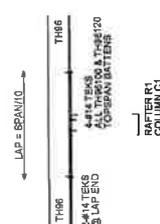
**BATTEN CONNECTION - BC2**



**FIXED BASE - FB3**



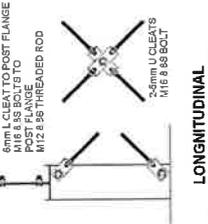
**RD MULLION BASE - MB3**



**BATTEN CONNECTION - BC3**



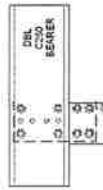
**FASCIA CONNECTION - FK1**



**LONGITUDINAL BRACING DETAIL - MBR1**

ACCREDITED PRACTITIONER Alexander Filonov MBEAust, CPEng, NPER Level 1, 12 Beaumont St Hamilton NSW 2000 4872 4962 4911 2/12/2025	CLIENT Lance Booth SITE 56 McInnes St MOORINE ROCK WA 8425	BUILDING TYPE Big G	DRAWING NUMBER END31-441441
		DIMENSION 10000S X 4800E X 20000L	FOR BUILDING PERMIT STAGE SCALE 1:20 DRAWN REV A RDS A3
CONNECTION DETAILS		PAGE 21/3	

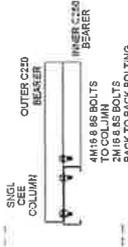




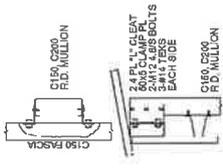
**LATERAL BRACING  
DETAIL - MBR2** 2.5mm U-CLEATS  
M18 8.8S BOLT



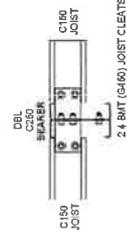
**BEARER TO COLUMN -  
MC5** 4.0 PL (GRC350)  
GUSSET  
2x18 8.8S BOLTS  
TO COLUMN



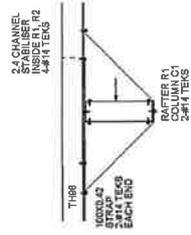
**BEARER TO COLUMN -  
MC8** 4x18 8.8S BOLTS  
BACK TO BACK BOLTING



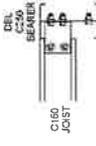
**RD MULLION/FASCIA - MF1**



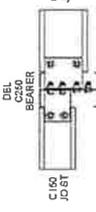
**DOUBLE C150 JOIST  
CONNECTION - MJ1**



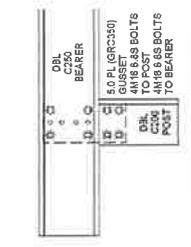
**SECTION STABILISER DET - SB1**



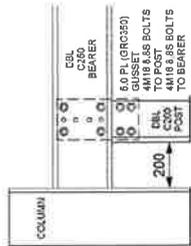
**SINGLE C150 JOIST  
CONNECTION - MJ2** 2.4 BMT (G450) JOIST CLEAT  
2x18 8.8S BOLTS TO BEARER



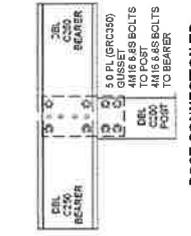
**SINGLE C150 / SINGLE C200  
JOIST CONNECTION - MJ5** 2.4 BMT (G450) JOIST CLEATS  
2x18 8.8S BOLTS TO BEARER



**POST CONNECTION TO  
CONTINUOUS BEARER -  
MP1** 5.0 PL (GRC350)  
4x18 8.8S BOLTS  
TO POST



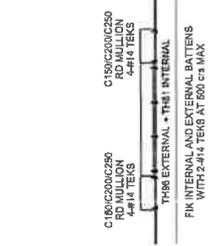
**POST CONNECTION TO  
NON-CONTINUOUS  
BEARER - MP3** 5.0 PL (GRC350)  
4x18 8.8S BOLTS  
TO POST



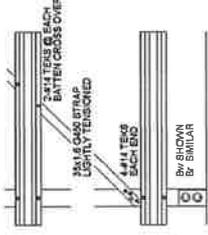
**POST CONNECTION TO  
BEARER AT END - MP2** 5.0 PL (GRC350)  
4x18 8.8S BOLTS  
TO POST



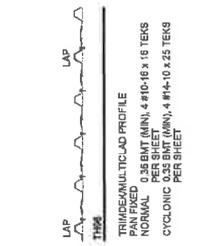
**POST CONNECTION AT  
POST BASE - MPB1** 3.0 BMT (G450) L CLEAT  
EACH WEB  
2x18 8.8S BOLTS TO  
POST WEB



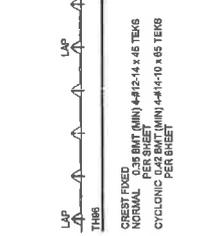
**RH HEAD - RH1**



**STRAP BRACING - SB1**

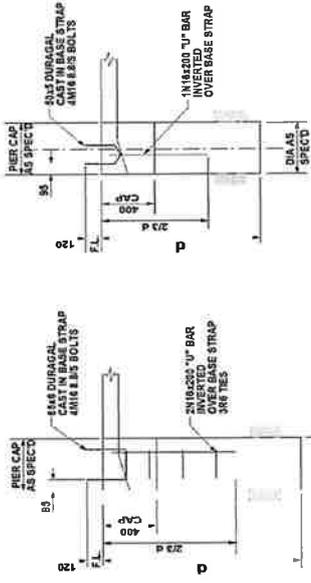
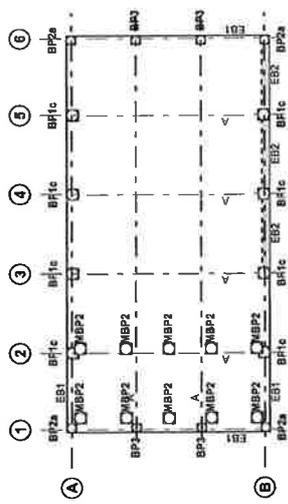


**WALL CLADDING  
SHEAR DIAPHRAGM - SD1**

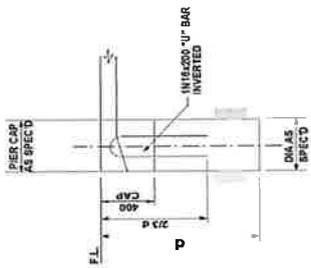


**ROOF CLADDING  
SHEAR DIAPHRAGM - SD2**

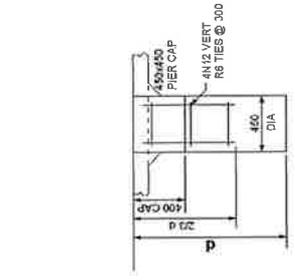




TYP DET BP1c



TYP DET BP2a



TYP DET BP3



TYP DET MBP1, MBP2 SIMILAR

**BORED PIERS WITH RC FLOOR**  
 BORED PIERS CAST WITH RC FLOOR AND EDGE BEAM, AND ARE ECONOMICALLY SUITED FOR SHEDS ON CLAYEY GROUND. THE DESIGNS SHOWN ARE SUITABLE FOR ISOLATED PIERS, BUT NOT SUITABLE FOR PIERS WITH AN EARTH FLOOR OR SIMILAR.

- PIERS TO BE TAKEN THROUGH ANY FILL MATERIAL AND FOUND IN STIFF CLAY WITH A MINIMUM SAFE BEARING CAPACITY OF 100 kPa AND A SHAFT ADHESION OF 20 kPa.
- PROVIDE REINFORCEMENT AS SPECIFIED AND LOCATE COLUMN BASE CONNECTORS ACCURATELY AS SHOWN.

**REFERENCE**  
 SEE SLAB DETAIL DRAWING FOR:  
 • MINIMUM COLUMN SPECIFICATION NOTES  
 • MINIMUM SITE PREPARATION NOTES  
 • CONCRETE SPECIFICATION NOTES  
 • CONCRETE REINFORCEMENT NOTES  
 • DETAIL S/VEB1 - SLAB EDGE TYPE 1  
 • DETAIL S/VEB2 - SLAB EDGE TYPE 2  
 • DETAIL S/VA - SLAB CONTROL JOINT  
 • DETAIL S/VC - SUB CONSTRUCTION JOINT

CLIENT <b>Lance Booth</b> SITE <b>55 McInnes St          MOORINE ROCK WA 6425</b>	BUILDING TYPE <b>Big G</b>	DRAWING NUMBER <b>ENGT-14161</b>
	BUILDING DIMENSION <b>10000S X 4800E X 20000L</b>	FOR BUILDING PERMIT STAGE DRAWN <b>RDB</b>
TITLE <b>RC FLOOR PLAN &amp; BORED PIER          DETAILS</b>	SCALE <b>1:40, 1:250</b>	PAGE <b>6/19</b>
ACCREDITED PRACTITIONER Alexander Flinov NIEAust, CPEng, NPER Level 11, 122 4511 20120205	Copyright 2025 Lysight Building Solutions Pty Ltd trading as RANBUILD	RANBUILD

**BORED PIER WITH RC FLOOR SCHEDULE**

**CENTRE LINE REFERENCE**

A  
A  
AB  
AB  
B  
B

**FRAME REFERENCE(S)**

1, 8  
2, 3, 4, 5  
1, 6  
1, 2  
1, 6  
2, 3, 4, 5

**LABEL**

BP2a  
BP1c  
BP3  
MBP2  
BP2a  
BP1c

**STRAP**

SGBS15  
SGBS25  
  
SGBS15  
SGBS25

**PIER CAP (b x b)**

450 x 450  
450 x 450  
450 x 450  
REFER DET  
450 x 450  
450 x 450

**DIA x DEPTH**

300 x 600  
300 x 750  
300 x 600  
450 x 1275  
300 x 600  
300 x 750

**ACCREDITED PRACTITIONER**

Alexander Filonov  
MBAust, CPEng, NPER  
Level 1, 12 Beaumont St, Hamilton NSW 2303  
02 12 82 4311  
2122225

Copyright 2025  
Lyaaght Building  
Solutions Pty Ltd  
trading as RANBUILD



**CLIENT**

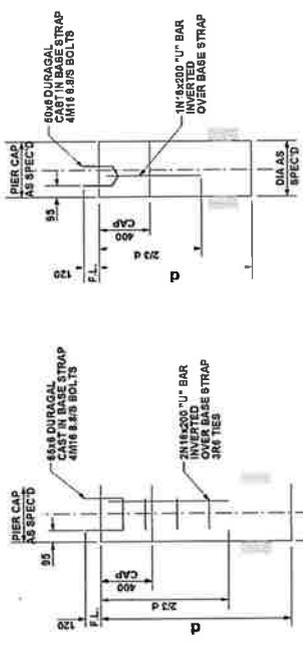
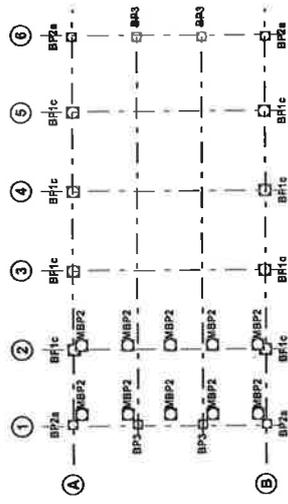
Lance Booth  
  
56 McInnes St  
MOORINE ROCK WA 6425

**BUILDING TYPE**

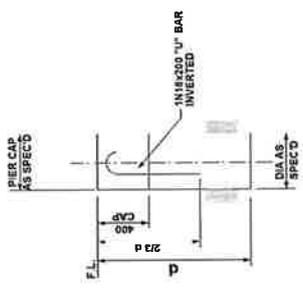
Big G  
BUILDING DIMENSION  
1,000,000 x 4,800 x 2,000  
TITLE  
RC FLOOR PLAN & BORED PIER  
DETAILS

**DRAWING NUMBER**

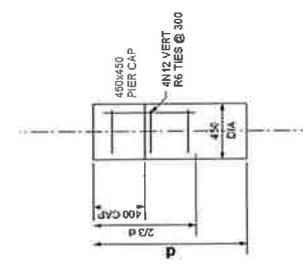
BR042-4461  
FOR BUILDING PERMIT STAGE  
DRAWN REV SCALE  
RDB A 1/40, 1/20  
PAGE 6/13



TYP DET BP1c



TYP DET BP2a



TYP DET BP3

TYP DET MBP1, MBP2 SIMILAR

**ISOLATED BORED PIERS**  
 ISOLATED BORED PIERS ARE ECONOMICALLY SUITED TO FOUNDATIONS ON SOFT CLAY. FOUNDATIONS SHOULD BE SHOWN AS SUITABLE FOR ISOLATED PIERS WITH AN EARTH FLOOR OR SIMILAR.

- PIERS TO BE TAKEN THROUGH ANY FILL MATERIAL AND FOUNDED IN STIFF CLAY WITH A MINIMUM SAFE BEARING CAPACITY OF 100 kPa AND A SHAFT ADHESION OF 20 kPa.
- PROVIDE REINFORCEMENT AS SPECIFIED AND LOCATE COLUMN BASE CONNECTORS ACCURATELY AS SHOWN.

**REFERENCE**  
 REFER TO THE FOLLOWING NOTES:  
 REFER TO THE REVISIONS AND NOTIFICATION NOTES  
 • MINIMUM SITE PREPARATION NOTES  
 • CONCRETE SPECIFICATION NOTES  
 • CONCRETE REINFORCEMENT NOTES

<b>CLIENT</b> Lance Booth SITE 56 McIness St MOORINE ROCK WA 6425	<b>BUILDING TYPE</b> Bldg C	<b>DRAWING NUMBER</b> ENGR-44161
	<b>BUILDING DIMENSION</b> 10000S X 4500E X 2000L <b>TITLE</b> ISOLATED BORED PIER DETAILS	<b>FOR BUILDING PERMIT STAGE</b> DESIGN REV A SCALE 1:40, 1:50, 1:20 PAGE 7/13

ACCREDITED PRACTITIONER  
 Alexander Filonov  
 BME Aust, CP Eng, NPER  
 Level 1, 12 Beaumont St Hamilton NSW 2303  
 Phone: 61 6 952 4311  
 21/02/2025

Copyright 2025  
 Lyaght Building  
 Solutions Pty Ltd  
 trading as RANBUILD

**ISOLATED BORED PIER SCHEDULE**

CENTRE LINE REFERENCE	FRAME REFERENCE(S)	LABEL	STRAP	PIER CAP (b x b)	DIA x DEPTH
A	1, 6	BP2a	SGBS15	450 x 450	300 x 750
AB	2, 3, 4, 5	BP1c	SGBS25	450 x 450	300 x 800
AB	1, 8	BP3		450 x 450	300 x 800
B	1, 2	MBP2		REFER DET	450 x 1275
B	1, 6	BP2a	SGBS15	450 x 450	300 x 750
B	2, 3, 4, 5	BP1c	SGBS25	450 x 450	300 x 900



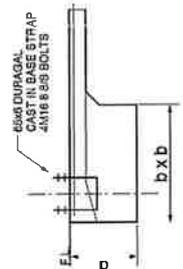
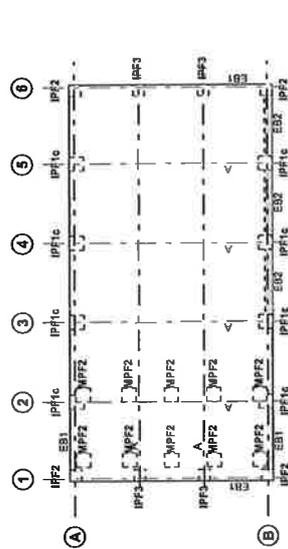
Copyright 2025  
 Lyraight Building  
 Solutions Pty Ltd  
 trading as RANBUILD

ACCREDITED PRACTITIONER  
 Alexander Filippov  
 MBEAust, CPDing, NPER  
 15/15-17/17-19/19  
 15/15-17/17-19/19  
 411-413/413-411  
 2/12/2028

CLIENT  
**Lance Booth**  
 SITE  
**56 McInnes St  
 MOORINE ROCK WA 8425**

BUILDING TYPE  
**Big G**  
 BUILDING DIMENSION  
**10000S x 4500E x 20000L**  
 TITLE  
**ISOLATED BORED PIER DETAILS**

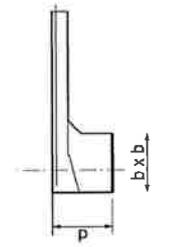
DRAWING NUMBER  
**ENB02-41461**  
 FOR BUILDING PERMIT STAGE  
 DESIGN REV A  
 SCALE 1:40, 1:250  
 PAGE 8/18



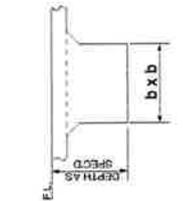
TYP DET IPF1c



TYP DET IPF2



TYP DET IPF3



TYP DET MPF1, MPF2 SIMILAR

**INTEGRAL PAD FOOTINGS**  
 MASS CONCRETE FOOTINGS CAST INTEGRAL WITH FLOOR & EDGE BEAM ARE ECONOMICALLY SUITED FOR SHERDS ON SANDY GROUND.

- THIS DESIGN MAY ALSO BE USED FOR CLAYEY SOIL OR WHERE ROCK IS ENCOUNTERED.
- ALL PAD FOOTINGS TO BE FOUND IN NATURAL CLAYEY SOILS WITH A BEARING CAPACITY OF 100 kPa AT DEPTH INDICATED.

THE DEPTH 'H' MAY BE REDUCED TO A MINIMUM OF 400MM PROVIDED THAT 'D' DIMENSIONS ARE ADJUSTED TO MAINTAIN THE SAME VOLUME OF CONCRETE.

**REFERENCE**

- SEE SLAB DETAIL DRAWING FOR:-
- MINIMUM SITE PREPARATION NOTES
- MINIMUM SITE PREPARATION NOTES
- CONCRETE REINFORCEMENT NOTES
- CONCRETE REINFORCEMENT NOTES
- SLAB ON GRADE NOTES
- DETAIL SYMB. - SLAB EDGE TYPE 1
- DETAIL SYMB. - SLAB EDGE TYPE 2
- DETAIL SYMB. - SLAB CONTROL JOINT
- DETAIL SYMB. - SLAB CONSTRUCTION JOINT

CLIENT <b>Lance Booth</b> SITE <b>56 McInnes St          MOORINE ROCK WA 8425</b>	BUILDING TYPE <b>Bla G</b>	DRAWING NUMBER <b>ENR1744161</b>
	BUILDING DIMENSION <b>110000S X 48500E X 20000L</b>	FOR BUILDING PERMIT STAGE DRAWN RELY RDS A
SCALE <b>1:40:1:250</b>	DRAWN RELY RDS A	PAGE <b>9/13</b>
ACCREDITED PRACTITIONER <b>Alexander Filonov</b> MIEAust, CP Eng, NFER Level 1, 12 Beaumont St, Hamilton NSW 2150 Phone: 61 2 9648 4311 21220255	Copyright 2025 Lysaght Building Solutions Pty Ltd trading as RANBUILD	

**INTEGRAL PAD FOOTING SCHEDULE**

CENTRE LINE REFERENCE	FRAME REFERENCE(S)	LABEL	STRAP	d x b x b
A	1, 6	IPF2	SGBS15	400 x 400 x 400
A	2, 3, 4, 6	IPF1c	SGBS25	300 x 450 x 450
AB	1, 6	IPF3	SGBS25	300 x 400 x 400
AB	1, 2	MPP2	SGBS15	525 x 525 x 525
B	1, 6	IPF2	SGBS15	400 x 400 x 400
B	2, 3, 4, 5	IPF1c	SGBS25	300 x 450 x 450



CLIENT	Lance Booth		
BUILDING TYPE	Blk G		
BUILDING DIMENSION	10000S x 4500E x 20000L		
FOR BUILDING PERMIT STAGE	RC FLOOR PLAN & INTEGRAL PAD FOOTING DETAILS		
DRAWING NUMBER	ENB02-41101		
DESIGN	REV	SCALE	PAGE
RSB	A	1:40, 1:50	10/19

**CONCRETE SPECIFICATION**

- CARRY OUT ALL WORK IN ACCORDANCE WITH THE CURRENT ISSUE OF AS3600 & THE SPECIFICATION.
- CONCRETE SIZES SHOWN DO NOT INCLUDE FINISH & MUST NOT BE REDUCED OR HOLED IN ANY WAY WITHOUT THE ENGINEERS APPROVAL. DEPTH OF BEAMS INCLUDE SUB THICKNESS.
- SLABS & BEAMS ARE TO BE FOURED TOGETHER.
- CONSOLIDATE BY VIBRATION.
- SLAB CONCRETE TO BE AS SHOWN IN SLAB ON GRADE CRITERIA.
- BORED PIER CONCRETE SHALL HAVE  $f_c = 25 \text{ MPa}$ , MAXIMUM AGGREGATE SIZE = 20 mm, SLUMP = 100 mm, EXCEPT FOR BCA CLASSES 2 TO 8 BUILDINGS CONCRETE SHALL HAVE  $f_c = 30 \text{ MPa}$ .

**SLABS ON GRADE**

- SLABS TO BE PLACED OVER 25 CONSOLIDATED SAND OVER PREPARED SURGRADE.
- PROVIDE 0.2 POLYTHENE FORTICON WATERPROOF MEMBRANE UNDER ALL SLABS WITH LAPPED & TAPED JOINTS.
- PLACE PUMP MIX CONCRETE AS SPECIFIED BELOW TO ACCURATE LEVELS AS PER ARCHITECTS SPECIFICATION.
- PROVIDE CONTROL JOINTS AS INDICATED BY NEATLY SAW CUTTING 40x8 GROOVES WITHIN 12 HOURS OF THE FINAL FLOUT OF THE CONCRETE.
- CURE SLAB FOR 7 DAYS AFTER PLACEMENT BY MAINTAINING A CONTINUOUSLY WET SURFACE BY APPROVED METHOD. FINISHING TO BE IMMEDIATELY AFTER CURING. FINISHING IS AN APPROVED METHOD.
- SEALING OF JOINTS TO BE CARRIED OUT ONE MONTH MINIMUM AFTER CURING IS COMPLETE.
- PROVIDE PROPER STORMWATER DRAINAGE AWAY FROM THE BUILDING.

SLAB ON GRADE CRITERIA	MINIMUM AT 28 DAYS (MPa)	25
FLEXURAL STRENGTH AT 90 DAYS (MPa)	25	25
SLUMP (mm)	100	100
AGGREGATE MAXIMUM SIZE (MM)	20	20
CEMENT CONTENT (KG/M <sup>3</sup> )	300	300
WATER/CEMENT RATIO (MAX)	0.45	0.45
WORKS TRAIL AT 28 DAYS	100	100
MINIMUM FINISHES	AS NOTED	AS NOTED
FLOOR TO BE FINISHED	AS NOTED	AS NOTED
FLOOR TO BE FINISHED	AS NOTED	AS NOTED

- FOR OTHER LOAD CONDITIONS A DESIGN VARIATION IS REQUIRED & SHOULD BE REFERRED TO A QUALIFIED LOCAL ENGINEER.

**SITE FOUNDATION CLASSIFICATION**

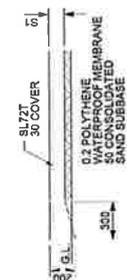
- TWO COMMON FOUNDATION CONDITIONS & SITE CLASSIFICATIONS IN ACCORDANCE WITH AS2990 ARE USED FOR THE STANDARDISED CONCRETE DESIGN.
- STIFF CLAY CONFORMING TO AS2990 CLASS M, MINIMUM SAFE BEARING CAPACITY - 100 kPa, SHAFT ADHESION - 20 kPa
- DENSE SAND CONFORMING TO AS2970 CLASS AS, MINIMUM SAFE BEARING CAPACITY - 100 kPa.
- A SITE SPECIFIC GEOTECHNICAL INVESTIGATION IS RECOMMENDED & IF CONDITIONS OTHER THAN ASSUMED ARE ENCOUNTERED A DIFFERENT FOOTING DESIGN MAY BE REQUIRED & SHOULD BE REFERRED TO A QUALIFIED LOCAL ENGINEER.
- ALL FOOTINGS TO BE FOUNDED IN NATURAL GROUND.
- NO FOOTING TO BE FOUNDED ON FILL MATERIAL.
- REFERENCE SHOULD BE MADE TO CSIRO PUBLICATION 10.81 GUIDE TO HOME OWNERS ON FOUNDATION MAINTENANCE & FOOTING PERFORMANCE

**MINIMUM SITE PREPARATION**

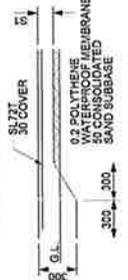
- STRIP SITE OF ALL TOP SOIL & DISCARD TO SPOIL. THE EXPOSED SURFACE TO BE PROOF ROLLED & AREAS REMAINING SOFT OR SPONGY ARE TO BE EXCAVATED TO SPOIL.
- PLACE APPROVED GRANULAR FILL MATERIAL TO THE REQUIRED BUILDING PLATFORM LEVEL IN LAYERS NOT EXCEEDING 200mm AND COMPACT BY ROLLING WITH SUITABLE EQUIPMENT TO ACHIEVE A 1% AT OPTIMUM MOISTURE CONTENT. THE TOP 200mm TO BE COMPACTED TO 100% STANDARD DRY DENSITY.
- THE COMPACTION OF ALL FILL MATERIAL TO BE INSPECTED AND APPROVED BY A RESPONSIBLE GEOTECHNICAL CONSULTANT.

**CONCRETE REINFORCEMENT**

- REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY & NOT NECESSARILY IN TRUE PROJECTION.
- REINFORCEMENT NOTATION:-
  - N DENOTES HOT ROLLED DEFORMED BAR.
  - SL DENOTES HARD DRAWN WELDED WIRE FABRIC. THE NUMBER IMMEDIATELY FOLLOWING BAR NOTATION IS THE NOMINAL DIAMETER IN mm.
- PROVIDE BAR SUPPORTS OR SPACERS TO GIVE THE FOLLOWING COVER TO ALL REINFORCEMENT UNLESS NOTED OTHERWISE.
  - FOOTINGS 65 BOTTOM, 85 TOP & SIDES
  - SLABS 30 BOTTOM, 20 TOP
  - BEAMS 40 BOTTOM, & SIDES TO STIRRUPS, TOP COVER AS DETAILED
- PROVIDE 2N12 DIAGONAL CORNER BARS 900 LONG AT ALL RE-ENTRANT CORNERS OF OPENINGS IN SLABS AND THESE BARS TO BE POSITIONED 30mm FROM THE CORNER.



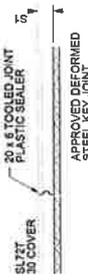
**DET S1/EB1**  
NOT SUITABLE AT OPENINGS SUBJECT TO VEHICLE TRAFFIC



**DET S1/EB2**  
REQUIRED AT OPENINGS SUBJECT TO VEHICLE TRAFFIC



**DET S1/A**  
CONTROL JOINT



**DET S1/C**  
CONSTRUCTION JOINT

SLAB THICKNESS (S1) = 120mm  
PROVIDE CONSTRUCTION JOINTS SO THAT THE MAXIMUM UNBROKEN RUN OF CONCRETE IS 20m IN EITHER DIRECTION

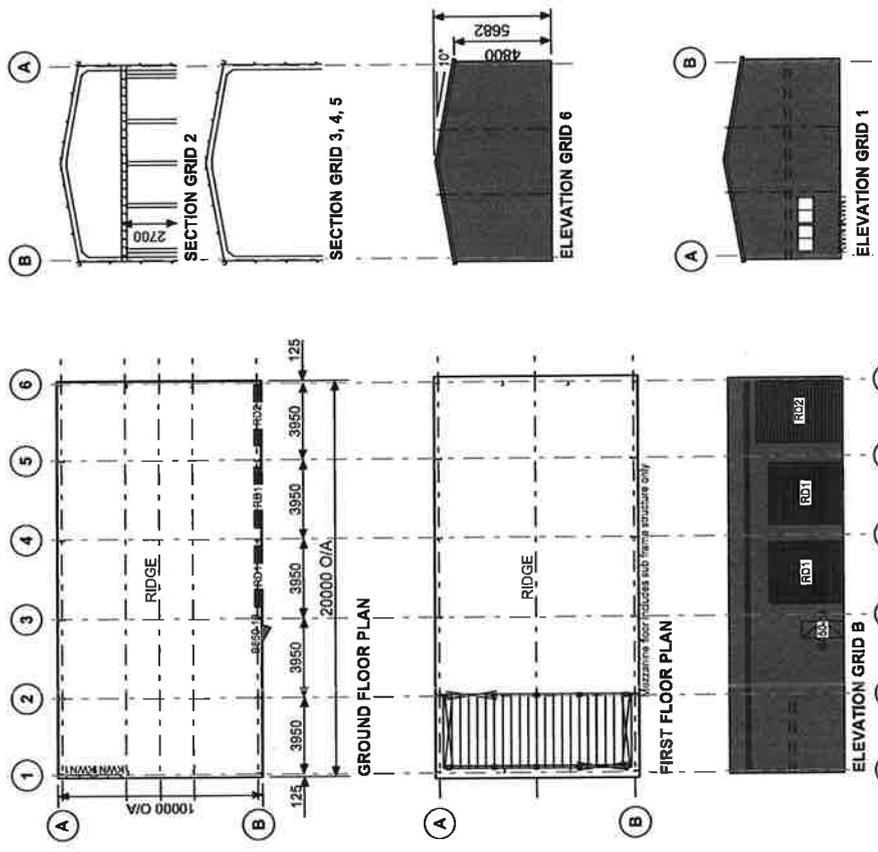


CLADDING			
ITEM	PROFILE (min)	FINISH	COLOUR
ROOF	TRIMDEX 0.42 BMT	CB	AA
WALLS	TRIMDEX 0.42 BMT	CB	AA
CORNERS	-	CB	AA
BARGE	-	CB	AA
SUTTER	SHEERLINE	CB	AA
DOWNPIPE	10x75	CB	AA

0.36bmt=0.40ct; 0.42bmt=0.47ct; 0.49bmt=0.53ct

ACCESSORY SCHEDULE & LEGEND	
QTY	MARK DESCRIPTION
2	RD1 W/Line R.D. - W/Lock C2, B 3800 high x 3080 wide Clear Opening C/B
1	RD2 W/Line R.D. - W/Lock C2, B 4200 high x 3050 wide Clear Opening C/B
1	B850-13 Synchrite PA Door & 176x176 Hung Frame 180 Diag. Std. 176x176 Hung Frame 180 Diag. Std.
2	KVINT MTL Frame A & B 790x427x4 CLR + FG Bladder Ezzen Window K1 (BS)

ARCHITECTURAL DRAWING ONLY, FOR BUILDING PERMIT STAGE
ELEVATED FLOOR LIVE LOAD = 3.0 kPa
CLIENT <b>Lance Booth</b>
SITE <b>56 McInness St MOORINE ROCK WA 6425</b>
BUILDING <b>BIG G 10000 SPAN x 4800 EAVE x 20000 LONG</b>
ACCREDITED PRACTITIONER <b>Alexander Filonov Level 1, 12 Beaumont St Hamilton NSW 2303 +61 2 4862 4311 2/12/2025</b>
TITLE <b>GENERAL ARRANGEMENT</b>
SCALE AS SHOWN 1:250
DRAWING NUMBER <b>441451-GA</b>
REV <b>A</b>
PAGE <b>12/13</b>



Cont on page 2



WARNING: ACCESSORY LOCATION AS SELECTED MAY VIOLATE SOME MEZZANINE FLOOR FRAMING AND/OR BRACING. IN THIS INSTANCE,  
RE-LOCATE THESE ACCESSORIES TO A SUITABLE LOCATION ON THE BUILDING ON-SITE.

Cont. on page 1

CLIENT

Lance Booth

SITE

56 McIness St  
MOORINE ROCK WA 6425

BUILDING

BIG G  
10000 SPAN x 4800 EAVE x 20000 LONG

ACCREDITED PRACTITIONER

Alexander Filoney  
Level 1, 12 Beaumont St Hamilton NSW 2303  
+61 2 4962 4311  
2/12/2025

TITLE

GENERAL ARRANGEMENT

SCALE  
A3 SHEET 1:250

DRAWING NUMBER  
441451-GA

REV  
A

PAGE  
13/13

## Executive Summary - Site Specific Analysis

The design analysis of the building has not been considered for each of the 4 orthogonal directions. Hence the maximum wind speed in any of the 8 cardinal directions has been used as the design wind speed. This is a conservative approach.

Each cardinal direction has been considered and the results are summarised below

Factor	N	NE	E	SE	S	SW	W	NW
Wind Region	A0							
Importance level (IL)	2							
Distance from Smoothed Coastline	N/A							
Regional Wind Speed (Vr)	45.0							
Climate Change Factor (Mc)	1							
Terrain Category (TC)	2	2	2	2	2	2	2	2
Terrain Category Multiplier (Mz)	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Shielding Multiplier (Ms)	1	1	1	1	1	1	1	1
Topographic Multiplier (Mt)	1	1	1	1	1	1	1	1
Wind Direction Multiplier 1 (Md1)	0.9	0.85	0.85	0.9	0.9	0.95	1	0.95
Site specific design wind speed (Vsite1)	37	35	35	37	37	39.1	41.1	39.1
Wind Direction Multiplier 2 (Md2)	0.9	0.85	0.85	0.9	0.9	0.95	1	0.95
Site specific design wind speed (Vsite2)	37	35	35	37	37	39.1	41.1	39.1

Design Wind Speed (Vsite1)	41.1 m/s	for the resultant forces and overturning moments on the complete building and wind actions on major structural elements.
Design Wind Speed (Vsite2)	41.1 m/s	for cladding and immediate supporting structures (Purlins and Girts)
Snow Load	Nil	
Earthquake	0.08	Hazard Design Factor (Z)
Durability Alert	Yes	It is likely that the building is subject to a Marine Influence and Industrial Influence. You should satisfy yourself that any BlueScope or other warranties specific for your site are satisfactory for your purpose. Amongst other sources, you should contact BlueScope on 1800 800 789.
Rainfall Intensity	127mm/hr	5% AEP
Rainfall Intensity	186mm/hr	1% AEP

---

# SITE SPECIFIC DESIGN CRITERIA ANALYSIS



---

**Issued:**

03/12/2025

**Prepared for:**

Lance Booth  
56 McInnes St  
MOORINE ROCK WA 6425

**Supplier:**

Tompkin Engineering

**Assessment Ref:**

BSC25113099DO

**Building Details:**

Span: 10  
Length: 20  
Avg. Height: 5.241

**Assesment basis:**

NCC 2022  
AS/NZS 1170.2:2021  
AS/NZS 1170.3:2003  
AS1170.4:2007  
AS/NZS 3500.3:2021

---

**Certified by:**

Alex Filonov