

**LEGEND**

- ROOF OUTLINE
- BALCONY OUTLINE
- ===== STEEL STUD WALL
- ===== WALL GIRTS

**1st FLOOR WINDOW & DOOR SCHEDULE**

- W1 1800W x 900H OPERABLE GLASS LOUVRES
- W2 1800W x 1800H OPERABLE GLASS LOUVRES
- W3 600W x 900H OPERABLE GLASS LOUVRES
- W4 600W x 1800H OPERABLE GLASS LOUVRES
- BF 3000W x 2100H BI FOLD DOOR
- CD 1600W x 2100H CONCERTINA DOOR

**Note:**

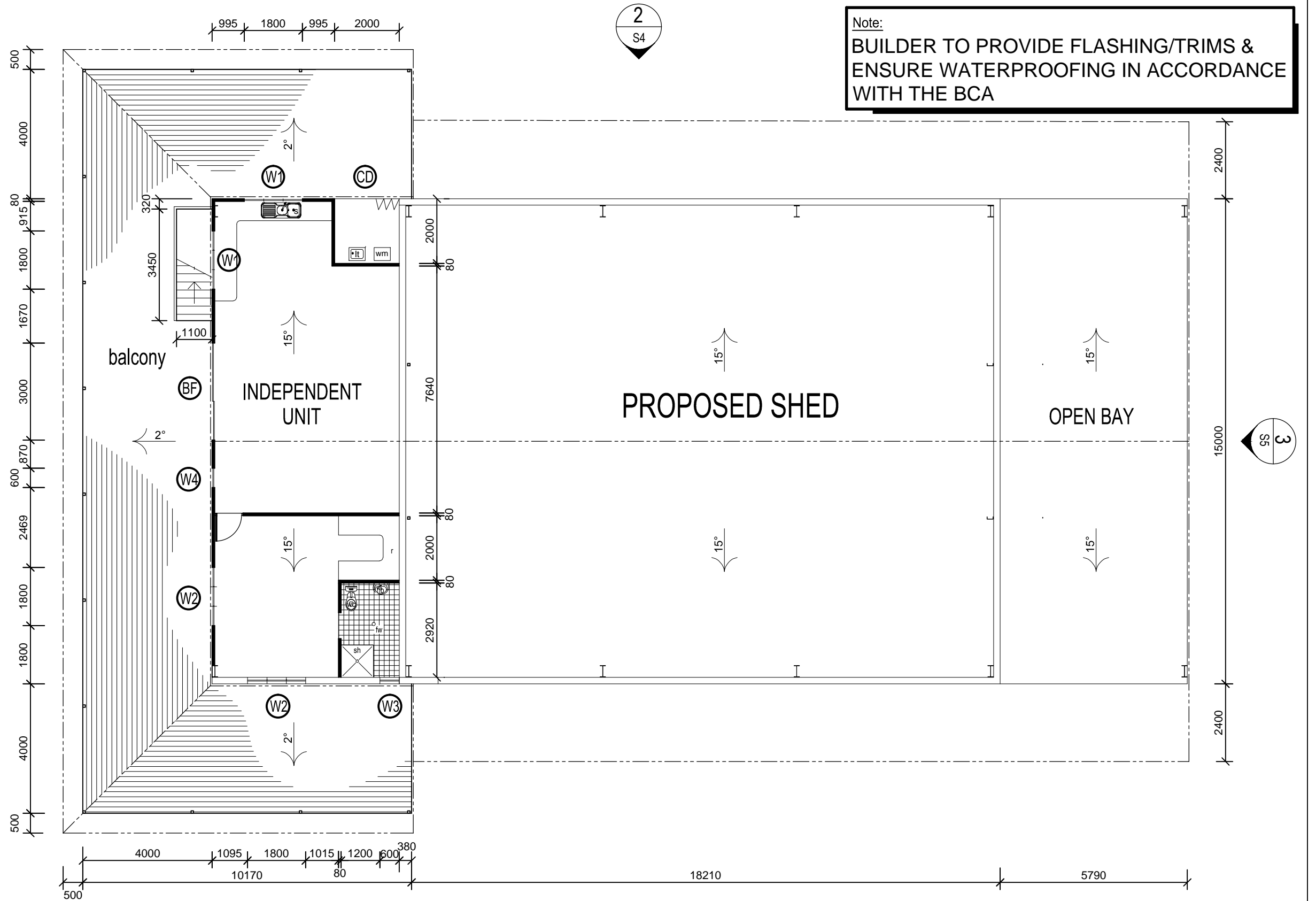
ALL PERSONAL ACCESS DOORS TO BE 920 leaf x 2040 HIGH TIMBER DOORS w/ PM frame

Note:

**BUILDER TO PROVIDE FLASHING/TRIMS & ENSURE WATERPROOFING IN ACCORDANCE WITH THE BCA**

**FITTINGS & FIXTURES**

- wc toilet
- sh shower
- b bath
- s sink
- r wardrobe
- wm washing machine
- hb hand basin
- db double hand basin
- lt laundry tub
- p pantry
- f fridge
- fw floor waste



**FIRST FLOOR PLAN**

SCALE: 1:125



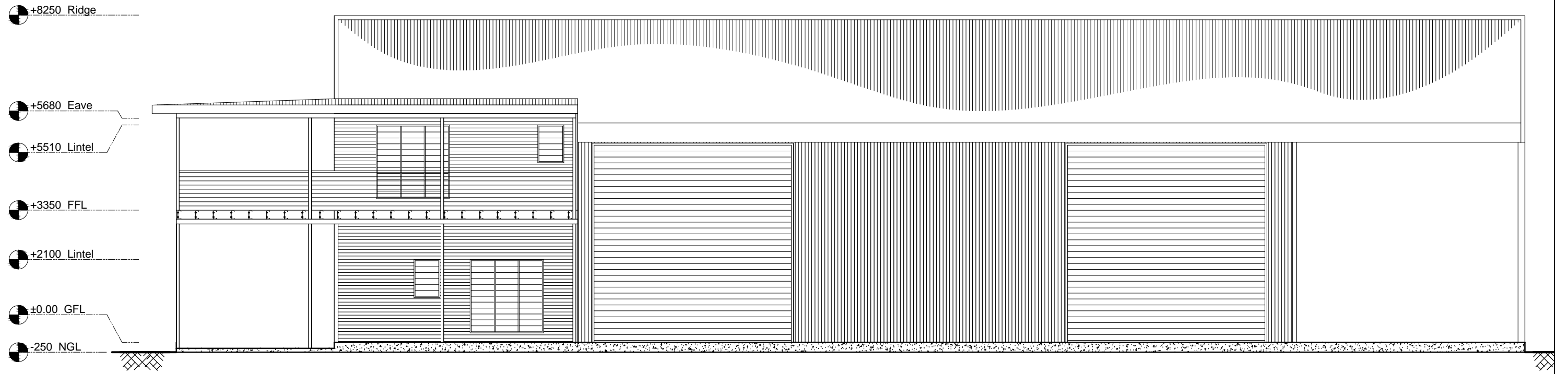
ISSUE FOR STRUCTURAL APPROVAL		12-08-2017	MC	NTCE
No.	DESCRIPTION	DATE	NAME	DEPT./COMPANY
AMENDMENTS				

**NT Consulting Engineers**  
 N.T. Consulting Engineers  
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 P.O. Box 900  
 COOLALINGA 0839  
 Northern Territory, Australia  
 www.ntconsultingengineers.com.au  
 Mobile: 0427 411 633 Email: ntce@westnet.com.au

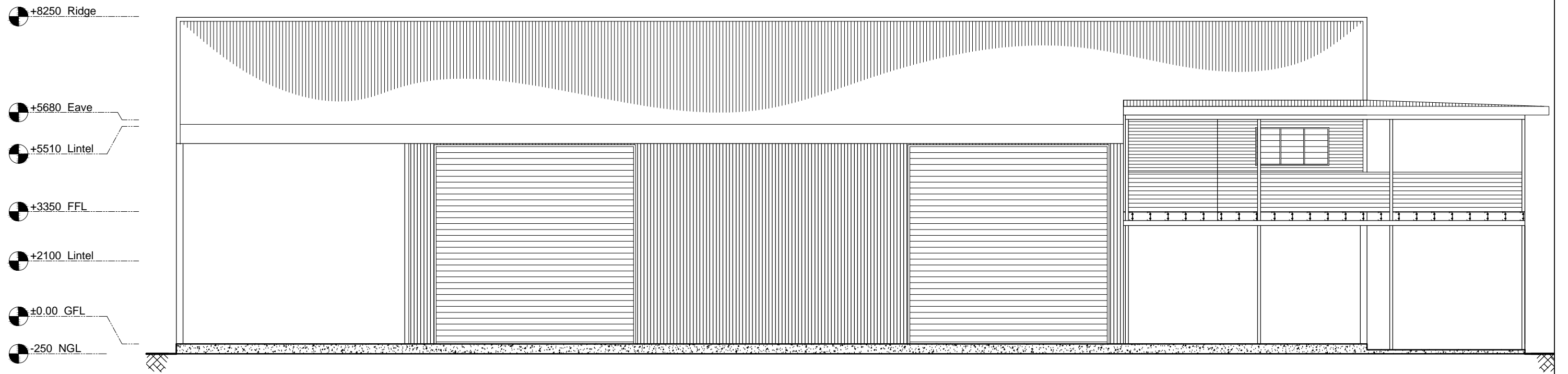
DRAWN OATS	CHECKED MC
DATE 12-08-2017	DATE 12-08-2017
DESIGNED PC	CHECKED MC
DATE 12-08-2017	DATE 12-08-2017
DESIGN PROJECT LEADER	PROJECT OFFICER
-	S.RICHARDSON
DATE 12-08-2017	DATE 12-08-2017

STRUCTURALLY CONCURRED Michael Cooper 21/8/15
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PROPOSED SHED & HOME BASED CONTRACTING SHANE RICHARDSON LOT 2881 (75) HILLIER Rd., HOWARD SPRINGS FIRST FLOOR PLAN					
FILE No.	ASSET No.	SHEET No.	DRAWING No.	AMEND.	SHEET SIZE
-	-	2 OF 15	U394625-S2	-	A3



**ELEVATION 1**  
SCALE: 1:100



**ELEVATION 2**  
SCALE: 1:100

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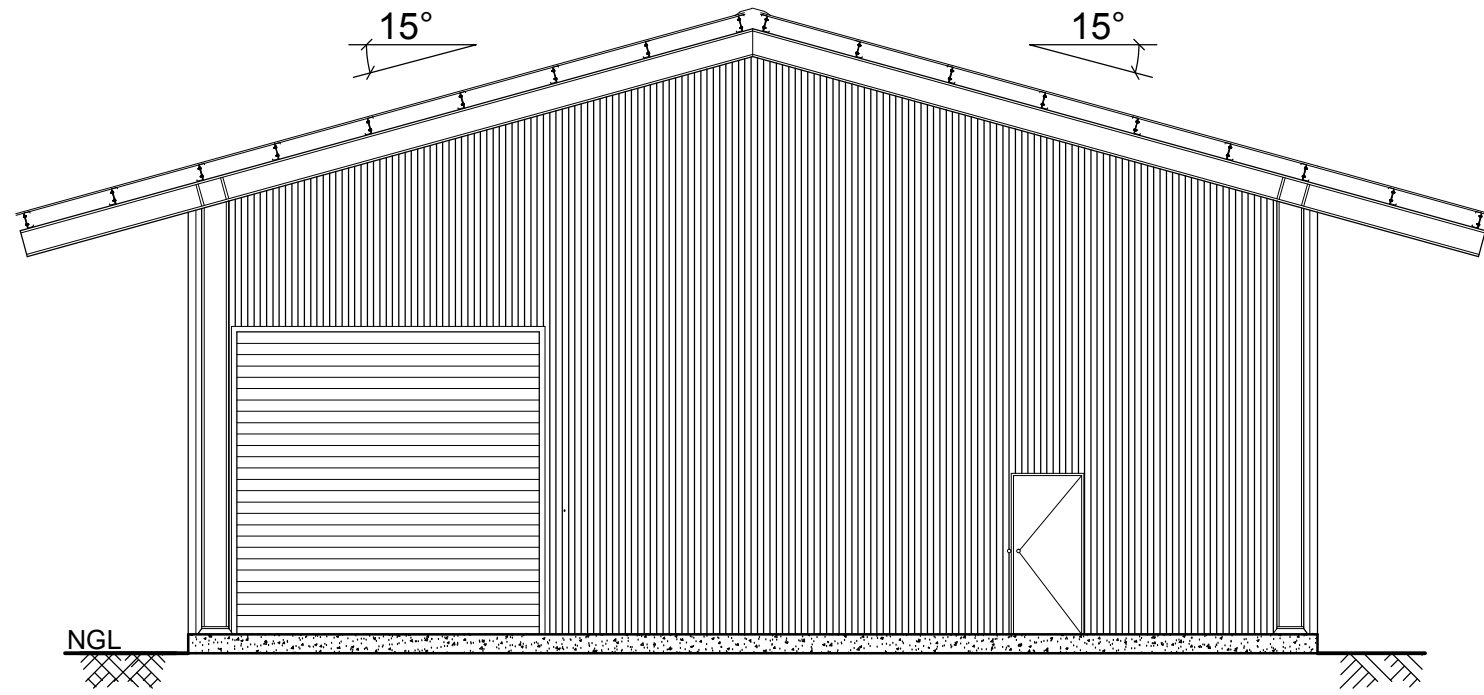
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STRUCTURALLY CONCURRED  
*Michael Cooper*  
 21/8/15

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DESIGNED PC	CHECKED MC
DATE 12-08-2017	DATE 12-08-2017
DESIGN PROJECT LEADER -	PROJECT OFFICER S.RICHARDSON
DATE 12-08-2017	DATE 12-08-2017


PROPOSED SHED & HOME BASED CONTRACTING SHANE RICHARDSON LOT 2881 (75) HILLIER Rd., HOWARD SPRINGS ELEVATIONS 1 & 2				
FILE No.	ASSET No.	SHEET No.	DRAWING No.	AMEND.
-	-	4 of 15	U394625-S4	-
				SHEET SIZE A3

- +8250 Ridge
- +5580 Eave
- +4000 RD Head
- +3350 FFL
- ±0.00 GFL
- -250 NGL

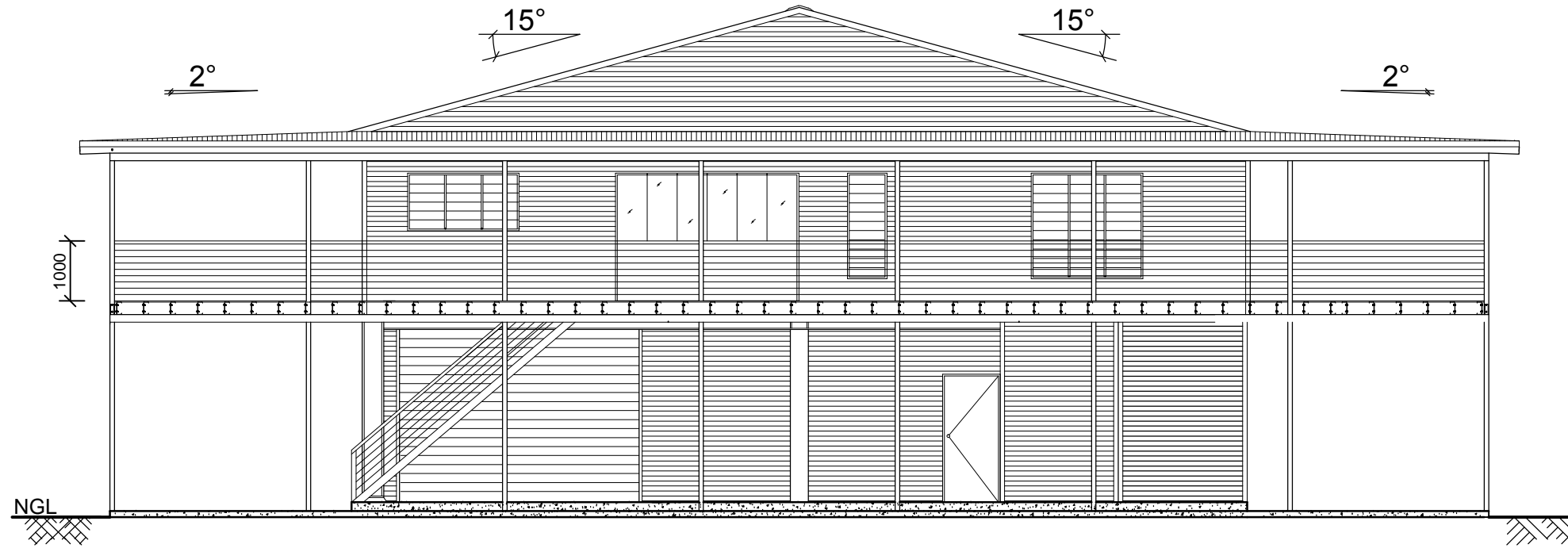


**ELEVATION 3**

SCALE: 1:100

Note:  
 PROVIDE STAINLESS STEEL WIRE  
 BALCONY BALUSTRADE IN  
 ACCORDANCE WITH THE BCA

- +8250 Ridge
- +5820 Top of Beam
- +5450 Lintel
- +3350 FFL
- +2100 Lintel
- ±0.00 GFL
- -150 Verandah
- -250 NGL



**ELEVATION 4**

SCALE: 1:100

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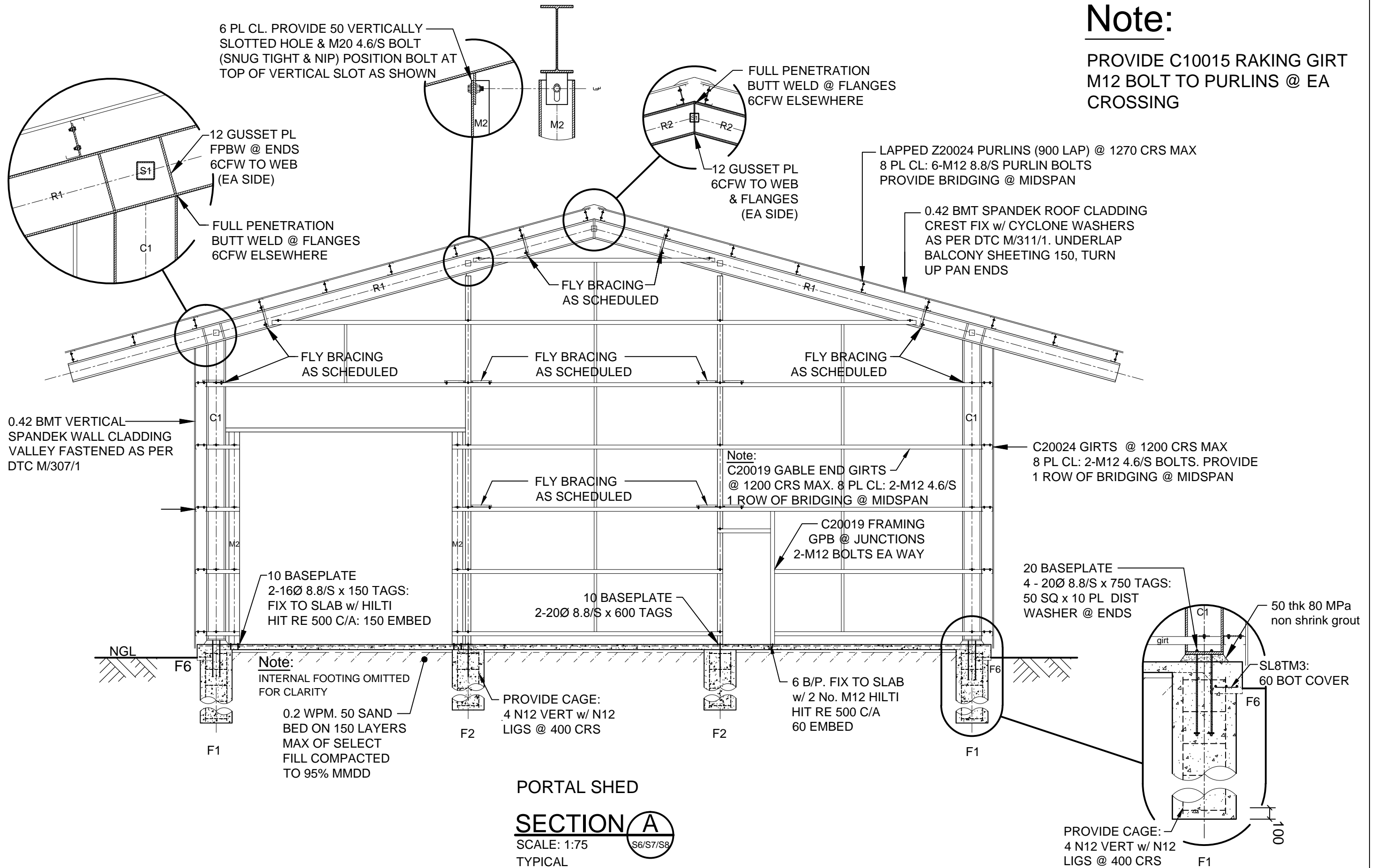
DRAWN OATS	CHECKED MC
DATE 12-08-2017	DATE 12-08-2017
DESIGNED PC	CHECKED MC
DATE 12-08-2017	DATE 12-08-2017
DESIGN PROJECT LEADER -	PROJECT OFFICER S.RICHARDSON
DATE 12-08-2017	DATE 12-08-2017

STRUCTURALLY CONCURRED <i>Michael Cooper</i> 21/8/15	
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PROPOSED SHED & HOME BASED CONTRACTING SHANE RICHARDSON LOT 2881 (75) HILLIER Rd., HOWARD SPRINGS ELEVATIONS 3 & 4					
FILE No.	ASSET No.	SHEET No.	DRAWING No.	AMEND.	SHEET SIZE
-	-	5 of 15	U394625-S5	-	A3

# Note:

PROVIDE C10015 RAKING GIRT  
M12 BOLT TO PURLINS @ EA  
CROSSING



## PORTAL SHED

### SECTION A

SCALE: 1:75

TYPICAL

No.	DESCRIPTION	DATE	NAME	DEPT./COMPANY
-	ISSUE FOR STRUCTURAL APPROVAL	12-08-2017	MC	NTCE
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STRUCTURALLY CONCURRED  
Michael Cooper  
21/8/2017

DRAWN J OATS  
DATE 12-08-2017  
DESIGNED PC  
DATE 12-08-2017  
DESIGN PROJECT LEADER  
DATE 12-08-2017

CHECKED MC  
DATE 12-08-2017  
CHECKED MC  
DATE 12-08-2017  
PROJECT OFFICER  
S.RICHARDSON  
DATE 12-08-2017

PROPOSED SHED & HOME BASED CONTRACTING  
SHANE RICHARDSON  
LOT 2881 (75) HILLIER Rd., HOWARD SPRINGS  
SECTION A

FILE No.	ASSET No.	SHEET No.	DRAWING No.	AMEND.	SHEET SIZE
-	-	9 of 15	U394625-S9	-	A3

**NORTHERN TERRITORY OF AUSTRALIA  
BUILDING ACT  
SECTION 40 – CERTIFICATE OF COMPLIANCE – STRUCTURAL DESIGN**

**.91\*6963\*63\*.0006**


**All sections must be completed – mark N/A to any question that does not apply**

<b>PROPERTY / PROJECT DETAILS</b>	
Owner (if known):	
Lot/Portion Number: <b>2881</b>	Address: <b>75 Hillier Rd</b>
Location: <b>Howard Springs</b>	Town / Hundred : <b>Bagot</b>
Description of works :	
<b>Proposed Shed &amp; Home Based Contracting</b>	

<b>DOCUMENTS ATTACHED</b>
Drawing Nos: <b>NTCE Dwg No.'s U394625-S1:U394625-S15</b>
Other:

<b>DESIGN BASIS</b> (please list relevant Standards used in the design)			
<b>AS1170, AS4100, AS3600, AS3700, AS4600, AS AS2870, AS1554, AS1312, AS3850</b>			
Class of Building (BCA): <b>1a &amp; 10a</b>		Type of Construction (BCA volume 1 §C1.1): (eg. Type A fire-resisting construction) <b>n/a</b>	
Building Importance Level (BCA Table B1.2a): <b>II</b>		Annual Probability of Exceedance for Wind (BCA Table 1.2b): <b>1 in 500</b>	
Region: <b>C</b>	Regional ultimate wind speed $V_R$ (m/s): <b>69</b>	Terrain Category: <b>2.5</b>	Reference height (m): <b>7.5</b>
$M_{z,cat}$ : <b>0.90</b>	$M_s$ : <b>1.0</b>	$M_t$ : <b>1.0</b>	$V_{des0}$ Design Wind Speed at reference height (m/s): <b>62</b>
Internal Pressure Coefficients ( $C_{p,i}$ ):		<b>To AS 1170.2 Section 5.3 &amp; Table 5.1</b>	
External Pressure Coefficients ( $C_{p,e}$ )		Walls	<b>To AS 1170.2 Section 5.4 &amp; Appendix C</b>
		Roof	<b>To AS 1170.2 Section 5.4 &amp; Appendix C</b>
Net Pressure Coefficients: ( $C_{p,n}$ )		Roof / Walls	<b>To AS 1170.2 Appendix D</b>
Imposed Loads, kPa		Floor / Roof	<b>To AS 1170.1</b>
Earthquake Design Category, EDC (Table 2.1 of AS 1170.4): <b>n/a</b>			
Annual Probability of Exceedance for Earthquake Actions (BCA Table 1.2b): <b>1 in n/a</b>			
Importance Level (BCA): <b>n/a</b>		Hazard Factor, Z (Section 3): <b>n/a</b>	Class of Sub-Soil (Section 4): <b>n/a</b>
Safe Foundation Bearing Capacity, kPa: <b>150</b>		Site classification (AS2870): <b>S to be confirmed on site</b>	

<b>COMMENTS / EXCLUSIONS</b> (Exclusions to this Certificate must be clearly identified).
The following items are excluded and shall be certified separately:
<ul style="list-style-type: none"> <li><b>Glazed Doors &amp; Windows inc glazing, framing &amp; fixing &amp; Proprietary Roller Doors</b></li> </ul>
Comments:
<ul style="list-style-type: none"> <li><b>These Dwg's are to be read in conjunction with Glenn Everett Workshop Dwg's &amp; any anomalies or discrepancies referred to The certifying structural engineer before proceeding with the work</b></li> </ul>

<b><u>CERTIFICATION BY STRUCTURAL ENGINEER</u></b>			
<b>Company Name</b> if certification issued on behalf of a corporation		<b>Company NT Registration Number</b>	
I certify that reasonable care has been taken to ensure that the structural engineering aspects of the works as described above have been designed in accordance with the requirements of the Building Code of Australia and the Northern Territory Building Regulations.			
<b>Name</b> (see *below)	<b>Nominee/Individual NT Registration Number</b>	<b>Signature</b>	<b>Date</b>
<b>Michael Cooper</b>	<b>21133ES</b>		<b>3 October, 2017</b>

\* Name and registration number of nominee signing on behalf of the company or if no company, name of individual issuing certification.

## **SCHEDULE OF STRUCTURAL INSPECTIONS REQUIRED**

Inspection of construction is required at the stages indicated below.

- 1. Completion of site preparation/site filling/excavations for footings prior to placement of any reinforcement or concrete.
- 2. Completion of preparations for placing of concrete strip footings including placement of reinforcement.
- 3. Completion of preparations for placing concrete slabs including compaction of fill and sand blinding, placement of formwork, reinforcement, starter bars and cast in items.
- 4. Completion of preparations for placing of concrete pier footings including reinforcement (if any).
- 5. Starter bars and cast in items after placing of concrete and prior to any covering up work.
- 6. Reinforcement to walls completed prior to core filling (inspection holes and cleanout cores to be completed).
- 7. Structural steelwork and cold formed steelwork completed and prior to any covering up work. Floor framing system completed before floors are laid or underside is lined.
- 8. Suspended concrete floor slabs with formwork, reinforcement and cast in items completed, prior to placing of concrete.
- 9. Wall framing or blockwork wall core filling completed (with windows fixed in place) and roof framing with connections completed and prior to sheeting or lining.  
  
Note:  Prior lodgement of truss manufacturer's drawings, details and certification required.  
 Prior lodgement of windows manufacturer's drawings including fixings and certification required.
- 10. Structural wall linings completed and prior to any covering up work.
- 11. Final inspection upon completion of all structural work including fixings of external roof and wall claddings, flashings, barges & vents.
- 12. Other Inspections as required by the building permit

### **Important Information:**

- 1) The above inspections are required to be carried out by either the certifying engineer or the building certifier who issued the Building Permit for the work. (If no inspections are indicated refer to the certifying engineer for advice).
- 2) Where works are prescribed building works under the *NT Building Act*, the building certifier must be provided with a copy of the inspection record and no further works must be carried out by the builder until the building certifier issues a release to proceed with further works.
- 3) Additional non structural inspections may be required during the course of construction before the issue of an Occupancy Permit (refer to building certifier for requirements).
- 4) Failure to obtain inspections may prevent the issue of an Occupancy Permit upon completion of the building works.