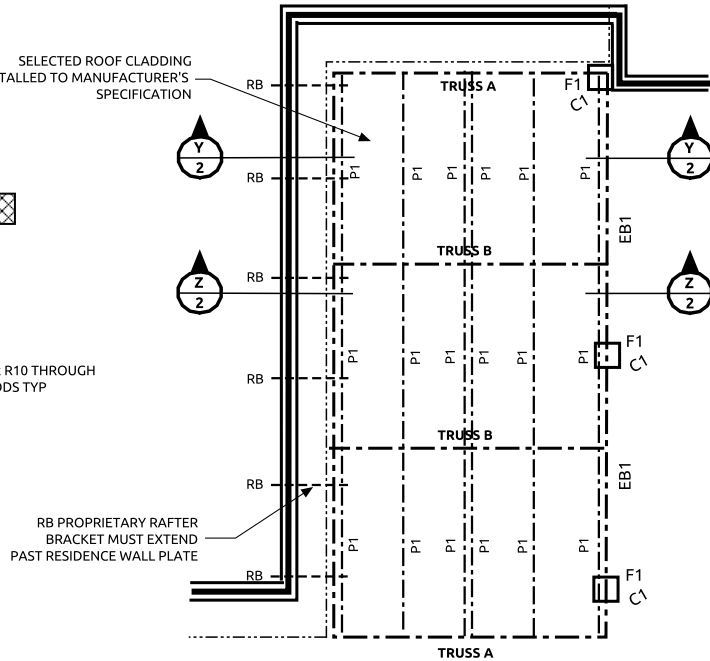


**FOOTING (F1)**  
**1:20 @ A4**



**STRUCTURAL PLAN**  
**1:100 @ A4**

### GENERAL NOTES

- G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANT DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT FOR DECISION BEFORE PROCEEDING WITH THE WORK.
- G2. DIMENSION SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.
- G3. SETTING OUT DIMENSION SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE BUILDER.
- G4. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- G5. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SAA CODES AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITY.

### FOOTINGS

FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE INTENSITY OR BEARING PRESSURE 150 KILOPASCALS. THE BUILDER SHALL OBTAIN APPROVAL OF THE FOUNDATION MATERIAL BEFORE PLACING CONCRETE.

### SITE CLASSIFICATION - CLASS A

THE SLAB AND FOOTING SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH ENGINEERING PRINCIPLES FOR SITE CLASS A TO AS 2870 - 2011. SITE CLASSIFICATION IS CLASS A.

### WIND SITE CLASSIFICATION - SITE CLASS N2

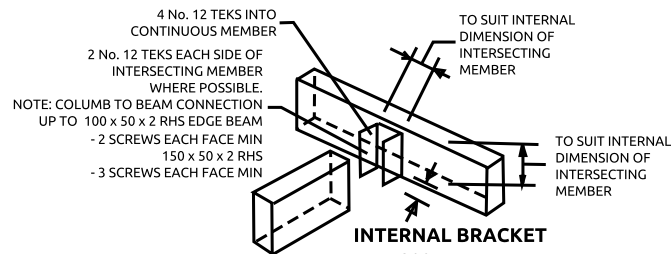
BASED ON AS/NZS 1170.2:2011 WIND ACTIONS, UWA AND CURTIN UNIVERSITIES STUDIES FOR THE RESPECTIVE AREAS THE ROOF HOLD SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH ENGINEERING PRINCIPLES FOR SITE CLASS N2 TO AS 4055 - WIND LOADS FOR HOUSING

### MARKING SCHEDULE

- F1. MASS CONCRETE FOOTING REFER DETAIL.  
C1. 100 X 100 X 2 SHS. COLUMN.  
EB1. 100 X 50 X 2 RHS. EDGE BEAM.  
EB2. 76 X 38 X 1.6 RHS. EDGE BEAM.  
FP. 76 X 38 X 1.6 RHS. FASCIA PLATE.  
RB. PROPRIETARY RAFTER BRACKET.  
P1. 76 X 38 X 1.6 RHS. PURLIN.  
TRUSS. FULLY WELDED ROOF TRUSS REFER SECTIONS

### STEEL WORK NOTES

1. CHECK ALL DIMENSIONS ON SITE PRIOR TO FABRICATION.
2. READ ENGINEERING DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS & SPECIFICATIONS. ANY DISCREPANCIES BETWEEN ARCHITECTURAL & ENGINEERING DRAWINGS TO BE CONFIRMED PRIOR TO COMPLETION OF TENDER.
3. ALL FABRICATION OF STEELWORK & TOLERANCES SHALL BE IN ACCORDANCE WITH SAA STRUCTURAL CODES AS 4100 - 1998 STEEL STRUCTURES.
4. ALL WELDING SHALL BE IN ACCORDANCE WITH AS/NZS 1554 - 2011.
5. STEEL PLATE AND SECTION MATERIALS TO BE OF THE FOLLOWING GRADES:
  - a) HOT ROLLED STEEL PLATES COMPLYING WITH AS 3678 TO BE GRADE 250
  - b) HOT ROLLED FLATS, TFC, TFBS, EQUAL ANGLES UP TO 100 X 100 EA AND UNEQUAL ANGLE UPTO 125 X 75 UA COMPLYING WITH AS 3679 TO BE GRADE 250
  - c) HOT ROLLED UBs, PFCs AND EQUAL ANGLES 125 X 125 EA OR LARGER AND UNEQUAL ANGLES 150 X 90 UA OR LARGER COMPLYING WITH AS 3679 TO BE GRADE 300
  - d) ALL SHS, RHS & CHS COMPLYING WITH AS 1163 TO BE MIN GRADE C350
  - e) COLD FORMED C & Z SECTIONS 10mm BMT TO BE GRADE 550, 1.2mm TO BE GRADE 500.  
1.5, 1.9, 2.4 & 3.0MM BMT TO BE GRADE 450
6. ACCEPTANCE OF STEELS - CERTIFIED MILL TEST REPORTS OR TEST CERTIFICATES ISSUED BY THE MILL, SHALL CONSTITUTE SUFFICIENT EVIDENCE OF COMPLIANCE WITH AS4100 AND SHALL BE MADE AVAILABLE TO THE PROJECT ENGINEER PRIOR TO FABRICATION AS REQUIRED.
7. EXCEPT WHERE OTHERWISE SHOWN IN THE DETAILS, ALL STEEL TO STEEL CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBER BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF 10mm THK. CLETS, 2-M16 8.8/S BOLTS U.O.N. ALL HOLDING DOWN BOLTS CAST INTO CONCRETE FOOTINGS TO BE GRADE 46/S U.O.N. WELDS SHALL BE MINIMUM FULL PENETRATION BUTT WELD U.O.N.
8. SEAL ALL HOLLOW SECTIONS BY FULLY WELDING A 5mm FLAT PLATE CAP.
9. ALL NUTS, BOLTS & WASHERS SHALL BE GALVANISED U.N.O.
10. ALL EXPOSED SELF DRILLING SCREWS SHALL HAVE MINIMUM CLASS 4 CORROSION PROTECTION
11. FABRICATE ALL BEAMS WITH NATURAL CAMBER UP
12. GRIND OFF FLUSH ALL BURRS AND SHARP EDGES AS NECESSARY
13. PROVIDE HOLES FOR FIXING CLEATS FOR OTHER TRADES AS DIRECTED IN THE SPECIFICATION OR AS SHOWN ON THE ARCHITECTURAL DRAWINGS
14. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING ERECTION & TO STABILIZE THE STRUCTURE WHERE STABILITY IS TO BE PROVIDED BY MASONRY OR BY OTHER CLADDING



### INTERNAL BRACKET

- 1.6mm G.S.S  
1. EXTERNAL BRACKET SIMILAR EXCEPT SIZE TO SUIT EXTERNAL DIMENSION OF INTERSECTING MEMBER  
2. SIDE WALLS SECTION CAN BE FABRICATED AT AN ANGLE TO VERTICAL SECTION TO SUIT APPLICATION

### STRUCTURAL CERTIFICATION

THE STRUCTURAL DESIGN ASSESSED USING A COMBINATION OF OR RELIANCE UPON ONE OR MORE OF THE FOLLOWING AUSTRALIAN STANDARD CODES

AS/NZS 1170.0:2002 (GENERAL PRINCIPLES)  
AS/AZS 1170.1:2002 (PERMANENT, IMPOSED)  
AS/AZS 1170.2:2002 (WIND, ACTIONS)  
AS/AZS 1684:2010 (TIMBER FRAMING CODE)  
AS/AZS 1170.4:2007 (EARTHQUAKE ACTIONS)  
AS 2870:2011 (SLABS & FOOTINGS)  
AS 4100 STEEL STRUCTURES CODE  
AS 3600 CONCRETE STRUCTURES CODE

Signature

### PROPOSAL: STEEL FRAMED CARPORT AND PATIO

ADDRESS: 8 BRIDGET PLACE  
SHELLEY  
WESTERN AUSTRALIA, 6148

Client MR J MUSHTAQ

Drawing Title SECTIONS

Consultant Dwg No.	Scale	Drawing Number
Drawn MUA	AS SHOWN	47/17 Sheet No. 2 of 2
Date Sept 2021	Rev. A	B C D

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