MR ROBERT SHELDRICK

PROPOSED ALTERATIONS TO RESIDENCE
No.151 SAMPSON STREET, ORANGE. NSW

DRAWING SCHEDULE

ISSUED FOR CONSTRUCTION

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Client: MR ROBERT SHELDRICK
Project: PROPOSED ALTERATIONS TO RESIDENCE No.151 SAMPSON STREET, ORANGE. NSW
Drawing Title: COVER SHEET & DRAWING SCHEDULE

Rev	Date	Amendment
A	02.11.2022	ISSUED FOR REVIEW
B	23.11.2022	ISSUED FOR REVIEW
0	01.11.2023	ISSUED FOR CONSTRUCTION
1	01.12.2023	ISSUED FOR CONSTRUCTION

Design XX
Drawn LH
Check RN
Original Sheet Size = A3
Certification
Drawing Number 38314-S00
Revision 1

GENERAL CONSTRUCTION NOTES

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT SAA CODES AND BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.
3. ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE. ENGINEER'S DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
4. UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.

SUPER STRUCTURE LOADING NOTES

1. ALL LOADS ARE ACCORDING TO AS1170
2. DEAD LOADS:
   - A) HOUSE: TILED ROOF & PLASTER BOARD CEILING WITH TIMBER FRAMING - 0.8kPa
   - B) AWNING: TRANSLUCENT SHEETING - 0.1kPa
3. LIVE LOADS:
   - A) 0.25 kPa NON TRAFFICABLE ROOF LOADING TO AS1170.1-2002
4. WIND LOADS:
   - A) REGION A, TERRAIN CATEGORY 2.5 TO AS1170.2 : 2021
   - B) Mt=Ms=1.0, STRUCTURAL IMPORTANCE LEVEL 2 TO AS1170.2-2021
   - C) CLASSIFICATION N2 TO AS4055-2021
5. SNOW LOADS:
   ORANGE GND SNOW LOAD - 1.4kPa TO AS1170.3-2003

STRUCTURAL TIMBER NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS1684.1-1999, AS1684.2-2010, AS1170.0-2002, AS1170.1-2002 AS1170.2-2011, AS1170.3-2003, AS1170.4-2007 AS SPECIFIED IN CONTRACT DOCUMENTS.
2. ALL TIMBER CONNECTIONS TO BE IN ACCORDANCE WITH AS1684 UNLESS NOTED OTHERWISE.
3. ALL PROPRIETARY CONNECTORS AND FIXINGS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
4. TIMBER MEMBERS SHALL HAVE THE FOLLOWING PROPERTIES U.N.O.:
   - A) SPECIES = LVL
   - B) STRESS GRADE = fb-32MPa, E-13200MPa.
5. MAXIMUM UNDERSIZE FOR ALL TIMBER MEMBERS SHALL BE AS FOLLOWS:
   - A) SEASONED PINE & OTHER SEASONED SOFTWOODS =0mm
   - B) UNSEASONED HARDWOODS = 3mm
   - C) SEASONED HARDWOODS = 0mm
   - D) OREGON = 4mm
6. TIMBER MEMBERS NOT SIZED OR SCHEDULED ON THE DRAWINGS SHALL BE SELECTED USING AS1684.1-1999.
7. ALL TIMBER JOINTS ARE TO BE FREE OF DEFECTS.
8. ALL NAILS, BOLTS AND SCREWS SHALL BE GALVANISED UNLESS APPROVED OTHERWISE BY THE SITE SUPERINTENDENT.

STRUCTURAL STEELWORK NOTES

1.0 GENERAL

1.1 CONSTRUCTION CATEGORY

IN ACCORDANCE WITH THE REQUIREMENTS OF AS/NZS 5131 THE CONSTRUCTION CATEGORIES FOR THIS PROJECT ARE DEFINED IN THE TABLE BELOW:

Element	Importance Level	Service Category	Fabrication Category	Construction Category
All structural steelwork UNO.	IL2	SC1	FC1	CC2

2.0 STRUCTURAL STEELWORK FABRICATION

ALL STRUCTURAL STEELWORK SHALL BE FABRICATED IN ACCORDANCE WITH AS/NZS 5131. ALL WORK ON THIS PROJECT SHALL BE UNDERTAKEN BY COMPETENT PERSONNEL. REQUIREMENTS AND EXAMPLES OF QUALIFICATIONS FOR COMPETENT PERSONNEL ARE CONTAINED IN AS/NZS 5131. MEMBER SIZES SHALL BE AS SHOWN ON THE STRUCTURAL DRAWINGS. NO SUBSTITUTION IS PERMITTED WITHOUT APPROVAL IN WRITING FROM THE ENGINEER.

2.5 BOLTING

4.6/S - COMMERCIAL GRADE 4.6 BOLTS TO AS 1111, TIGHTENED TO A SNUG TIGHT CONDITION TO AS/NZS 5131

8.8/S - HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS/NZS 1252.1, TIGHTENED TO A SNUG TIGHT CONDITION TO AS/NZS 5131

8.8/TB - HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS/NZS 1252.1, FULLY TENSIONED TO AS/NZS 5131 AS A BEARING JOINT

8.8/TF - HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS/NZS 1252.1, FULLY TENSIONED TO AS/NZS 5131 AS A FRICTION JOINT

2.6 WELDING

WELDING CONSUMABLES SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 1554, BASED ON THE YIELD STRENGTH OF THE STEEL TO BE WELDED, AS DEFINED BELOW:

NOMINAL YIELD STRENGTH OF STEEL TO BE WELDED ALL STEEL WITH GRADE ≤ 300 MPa

NOMINAL TENSILE STRENGTH OF WELD METAL, Fuw 430MPa.

NOMINAL YIELD STRENGTH OF STEEL TO BE WELDED ALL STEEL WITH 300 < GRADE ≤ 450 MPa

NOMINAL TENSILE STRENGTH OF WELD METAL, Fuw 490MPa.

SHOP AND SITE WELDS - WELD CATEGORY G.P. UNO

STRUCTURAL STEELWORK NOTES continued

2.7 MINIMUM CONNECTION DETAILING GUIDELINES

UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, CONNECTION DETAILS SHALL BE IN ACCORDANCE WITH THE FOLLOWING MINIMUM REQUIREMENTS:

a) ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELD (CFW) ALL ROUND.
b) ALL STEEL TO STEEL BOLTED CONNECTIONS SHALL BE MIN TWO M20 GRADE 8.8/S.
c) A MINIMUM OF TWO THREADS SHALL EXTEND PAST THE NUT.
d) ALL PLATES SHALL BE 10mm MINIMUM THICK.
e) ALL PURLIN CLEATS SHALL BE 8mm MINIMUM THICK.

ALL DETAILING WHERE NOT SPECIFICALLY SHOWN SHALL BE IN ACCORDANCE WITH THE AUSTRALIAN STEEL INSTITUTE (ASI) CURRENT EDITIONS OF THE 'DESIGN CAPACITY TABLES FOR STRUCTURAL STEEL' AND THE ASI STANDARDISED STRUCTURAL CONNECTION DETAILS CONTAINED THEREIN.

THE ENDS OF HOLLOW SECTION MEMBERS SHALL BE SEALED WITH NOMINAL THICKNESS PLATES AND CONTINUOUS SEAL WELDED UNLESS NOTED OTHERWISE. IF HOLLOW SECTIONS ARE TO BE HOT-DIP GALVANIZED, VENT AND DRAINAGE HOLES SHALL BE PROVIDED CONFORMING TO THE REQUIREMENTS OF AS/NZS 5131 IN NON-VIEWABLE LOCATIONS.

2.8 SURFACE TREATMENT AND CORROSION PROTECTION

UNLESS NOTED OTHERWISE IN THE CONTRACTUAL DOCUMENTATION, THE MINIMUM SURFACE TREATMENT OF BOTH INTERNAL AND EXTERNAL STEELWORK SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.

STRUCTURAL STEELWORK TO BE GALVANIZED SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131.

3.0 STRUCTURAL STEELWORK ERECTION

STRUCTURAL STEELWORK ERECTION SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131. ALL MEMBERS HAVING A NATURAL CAMBER WITHIN THE STRAIGHTNESS TOLERANCE SHALL BE ERECTED WITH THE NATURAL CAMBER UP.

4.0 ADDITIONAL CLAUSES

THE STRUCTURAL STEELWORK ERECTOR SHALL BE RESPONSIBLE FOR TEMPORARY STABILITY DURING ERECTION. THE STRUCTURAL STEELWORK ERECTOR SHALL PROVIDE AND LEAVE IN PLACE UNTIL PERMANENT BRACING ELEMENTS ARE CONSTRUCTED, SUCH TEMPORARY BRACING AS IS NECESSARY TO SECURELY STABILISE THE STRUCTURE DURING ERECTION.

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Client: MR ROBERT SHELDRICK
Project: PROPOSED ALTERATIONS TO RESIDENCE
No.151 SAMPSON STREET, ORANGE. NSW
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Rev	Date	Amendment
A	02.11.2022	ISSUED FOR REVIEW
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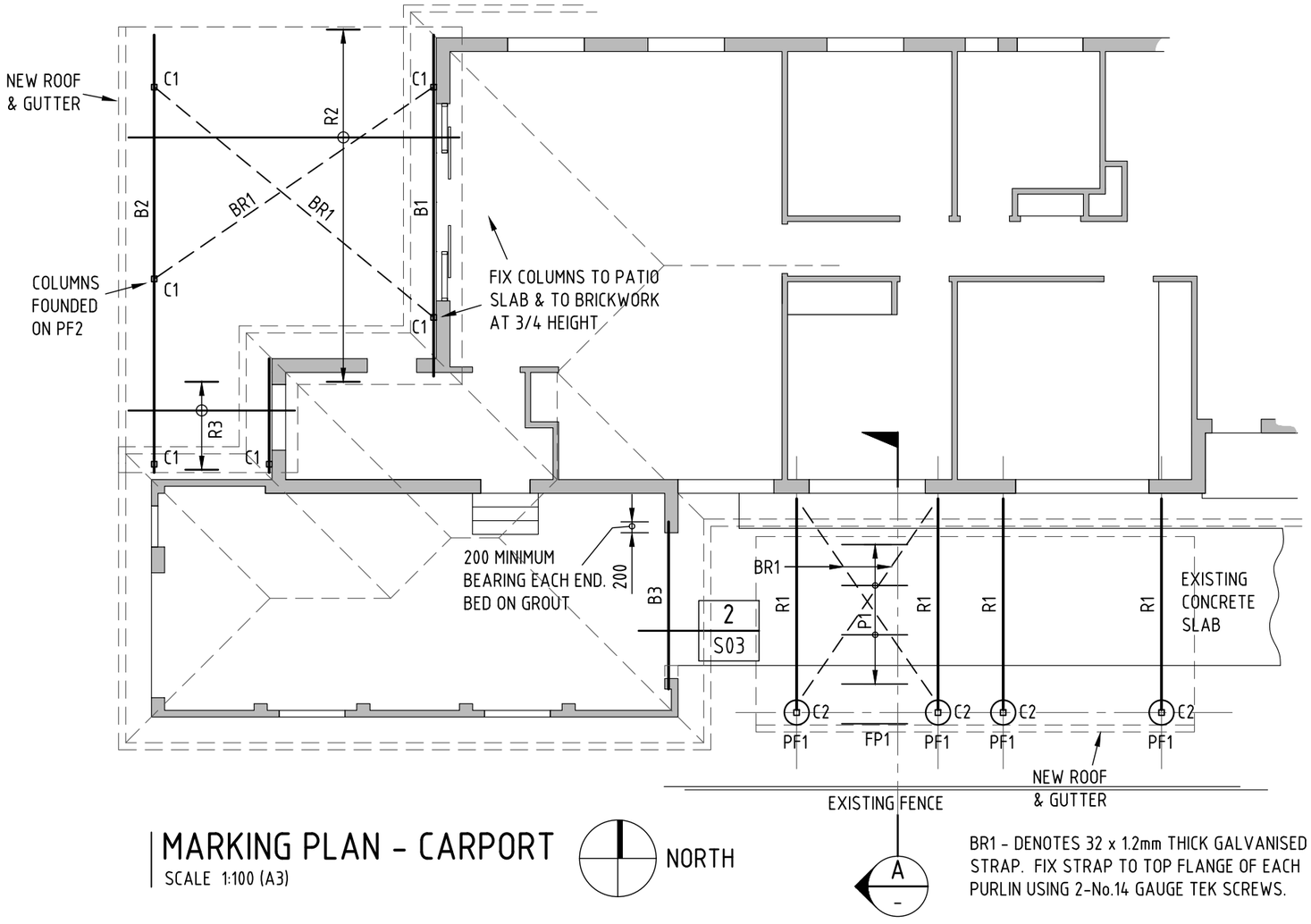
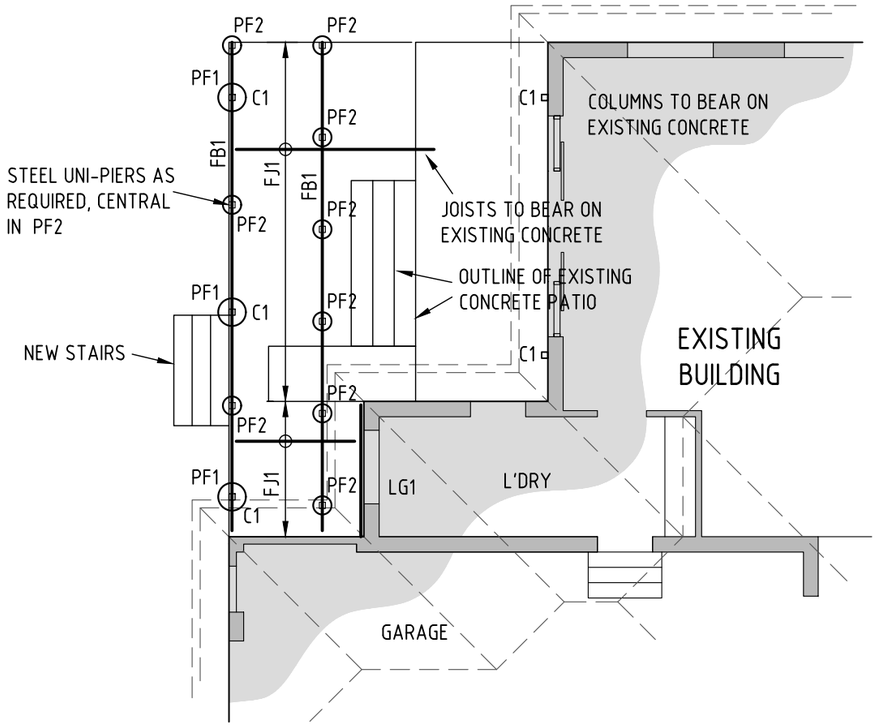


BR1 - DENOTES 32 x 1.2mm THICK GALVANISED STRAP. FIX STRAP TO TOP FLANGE OF EACH PURLIN USING 2-No.14 GAUGE TEK SCREWS.

MARKING PLAN - CARPORT

SCALE 1:100 (A3)

NORTH



MARKING PLAN - PATIO

SCALE 1:100 (A3)

NORTH

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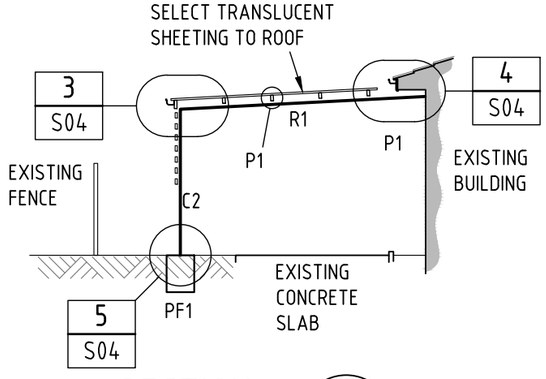

SECTION A

SCALE 1:100

MEMBER SCHEDULE			MEMBER SCHEDULE		
MARK	SIZE	REMARKS	MARK	SIZE	REMARKS
C1	89 x 3.5 SHS - DURAGAL	COLUMN	R1	89 x 3.5 SHS - DURAGAL	RAFTER
C2	89 x 3.5 SHS - DURAGAL	COLUMN	R2	200 x 36 LVL	RAFTER @ 900 CENTRES
B1	240 x 63 LVL	BEAM, MAXIMUM SPAN 4.2m, LOAD WIDTH 2.6m	R3	130 x 36 LVL	RAFTER @ 900 CENTRES
			P1	100 x 50 FIRMLOK	PURLIN @ 900 CENTRES
B2	200 x 63 LVL	BEAM, MAXIMUM SPAN 3.5m, LOAD WIDTH 2.6m	FP1	150 x 50 FIRMLOK	FASCIA PURLIN
			TD1	75 x 6 FLAT	TIE DOWN
B3	200 PFC + FLANGE PLATE	BEAM	PF1	450Ø x 750 DEEP, UN-REINFORCED CONCRETE	PIER FOOTING
BR1	AS NOTED ON PLAN	BRACING			
			PF2	300Ø x 750 DEEP, UN-REINFORCED CONCRETE	PIER FOOTING @ 1500 NOMINAL CENTRES

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Client: MR ROBERT SHELDRICK
Project: PROPOSED ALTERATIONS TO RESIDENCE
No.151 SAMPSON STREET, ORANGE. NSW
Drawing Title: MARKING PLAN

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A	02.11.2022	ISSUED FOR REVIEW
B	24.11.2022	RE-ISSUED FOR REVIEW
C	16.06.2023	PLAN REVISED, RE-ISSUED FOR REVIEW
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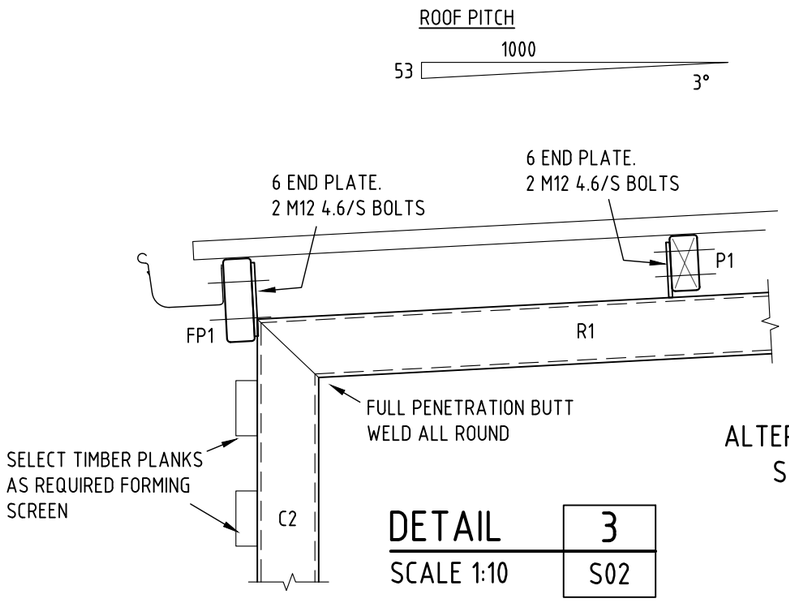
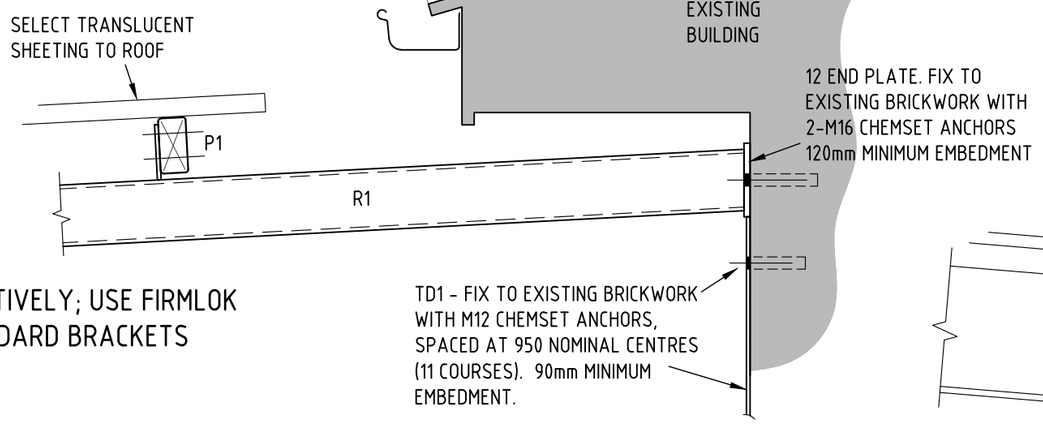
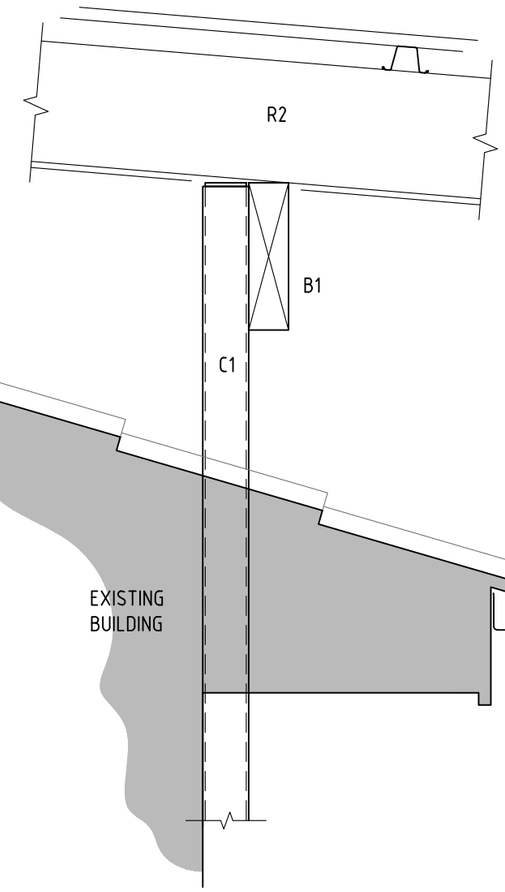


DETAIL 3
SCALE 1:10 S02

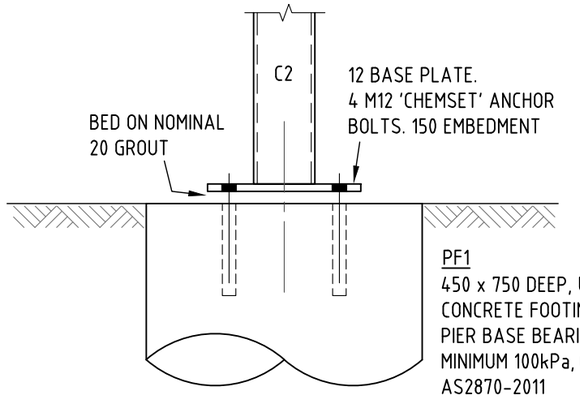


ALTERNATIVELY; USE FIRMLOK
STANDARD BRACKETS

DETAIL 4
SCALE 1:10 S03

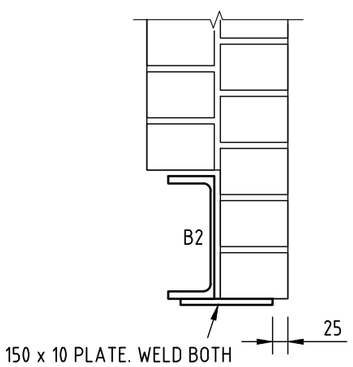


DETAIL 1
SCALE 1:10 -



DETAIL 5
SCALE 1:10 S02

COLUMN BASE DETAILS



DETAIL 2
SCALE 1:10 -

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Client: MR ROBERT SHELDRICK
Project: PROPOSED ALTERATIONS TO RESIDENCE
No.151 SAMPSON STREET, ORANGE. NSW

Drawing Title: DETAILS '1'

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