

BARNSON PTY LTD

phone 1300 BARNSON (1300 227 676)email generalenquiry@barnson.com.auweb barnson.com.au

RESIDENTIAL FOOTING DESIGN TO AS2870-2011

Job No:

45214

Client:

BRYAN AND DEBBIE TRACY

Project Address:

10 ELEANOR DARK COURT MUDGEE NSW 2850

- 'n 'n
- MATERIALS AND WORKMANSHIP SHALL BE IN DO NOT SCALE FROM THESE DRAWINGS ACCORDANCE WITH RELEVANT SAA CODES AND LOCAL AUTHORITY REGULATIONS. DECISION PRIOR TO PROCEEDING.
- NATURALLY OCCURRING FOUNDATION SOILS. FAMILIARISE THEMSELF WITH THE EXPECTED GEOTECHNICAL REPORT PRIOR TO CONSTRUCTION, TO THE CONTRACTOR SHALL OBTAIN A COPY OF THE SITE
- IF SOIL IS ENCOUNTERED DURING CONSTRUCTION THAT IS REPORT, BARNSON PTY LTD SHALL BE CONTACTED IMMEDIATELY PRIOR TO FURTHER WORK TAKING PLACE 13. SITE MAINTENANCE IS THE RESPONSIBILITY OF THE DIFFERENT TO THAT REFFERED TO IN THE GEOTECHNICAL
- DURING CONSTRUCTION, THE STRUCTURE SHALL BE SHALL BE OVERSTRESSED. MAINTAINED IN A STABLE CONDITION, AND NO PART
- ALL CARE SHOULD BE TAKEN TO ENSURE THAT DURING AND AFTER CONSTRUCTION. THAT WATER IS DIVERTED AWAY FROM THE BUILDING ADEQUATE SITE DRAINAGE IS PROVIDED TO ENSURE
- ALL FORMWORK SHALL BE IN ACCORDANCE WITH

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- PREPOUR INSPECTIONS FOR ALL FOOTINGS AND SLABS POURED WITHOUT ATTAINING APPROVAL. INSPECTIONS IS REQUIRED. NO CONCRETE IS TO BE CERTIFYING AUTHORITY. 24 HOURS NOTICE FOR SHALL BE CARRIED OUT BY BARNSON PTY LTD OR THE
- FOR SLAB ON GROUND, FINISHED SLAB HEIGHTS ABOVE EXTERNAL FINISHED SURFACES MUST NOT BE LESS

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- HAVE A SLOPE OF NOT LESS THAN 50mm OVER B) 100mm ABOVE SANDY, WELL DRAINED AREAS C) 50mm ABOVE EXTERNAL SEALED AREAS THAT A) 150mm ABOVE FINISHED GROUND LEVE THE FIRST 1m FROM THE BUILDING
- = SLABS & FOOTINGS HAVE BEEN DESIGNED BASED ON ENGINEERING PRINCIPALS CONTAINED IN SECTION 4 OF STANDARD DESIGNS CONTAINED IN SECTION 3 AND AS2870-2011, AND ENGINEERING PRINCIPALS FROM

- BEAMS OR STRIP FOOTINGS, IT SHALL BE PERFORMED SPECIFIC REQUIREMENTS TO WIDEN, OR DEEPEN PRINCIPALS NOTED ABOVE. IF THERE ARE SITE ARE THE MINIMUM REQUIRED AS PER DESIGN
- A) WHERE BEAMS OR STRIP FOOTINGS ARE WIDER REQUIRED FOR EACH 100mm ADDITIONAL WIDTH. OR EQUIVALENT OF THE SAME BAR SIZE IS THAN THAT SPECIFIED, AN EXTRA BOTTOM BAR
- B) WHERE BEAMS OR STRIP FOOTINGS ARE REINFORCEMENT SPECIFIED IN AS2870 FOR THE GREATER BEAM OR STRIP FOOTING DEPTH IS TO DEEPER THAN THAT SPECIFIED, THE BOTTOM
- BUILDING TECHNOLOGY FILE 18, SHOULD BE REFERRED OWNER. CSIRO'S - FOUNDATION MAINTENANCE AND TO FOR ONGOING SITE MAINTENANCE REQUIREMENTS. FOOTING PERFORMANCE: A HOMEOWNERS GUIDE -

BASE PREPARATION - FOUNDATIONS

- FOUNDATION MATERIAL, WHETHER NATURALLY OCCURRING OR FILL, SHALL HAVE A MINIMUM UNIFORM ALLOWABLE BEARING CAPACITY (Qa) OF 100 kPa
- ALL TESTING TO BE UNDERTAKEN BY A NATA WITH AS2870-2011. REFER PROJECT SPECIFIC PLAN SITE CLASSIFICATION CARRIED OUT IN ACCORDANCE THE ATTACHED PROJECT SPECIFIC RESIDENTIAL FOOTING DESIGN, HAS BEEN PREPARED BASED ON A REGISTERED LABORATORY
- INTERNAL BEAMS/RIBS AND SLAB PANELS SHALL BE FOUNDED ON CONTROLLED OR ROLLED FILL.
- 'n ALL EDGE BEAMS SHALL BE FOUNDED IN NATURAL SOIL OR CONTROLLED FILL, UNLESS SUPPORTED BY

BASE PREPARATION - FILI

- FILLING USED IN THE CONSTRUCTION OF A SLAB, EXCEPT WHERE THE SLAB IS SUSPENDED, SHALL CONSIST OF CONTROLLED FILL AS FOLLOWS:
- STANDARD COMPACTION FOR A DOUBLE STORY ROLLER TO A MINIMUM 95% STANDARD COMPACTION DWELLING. FILL SHALL BE OF LESS REACTIVITY COMPACTED IN 150mm LAYERS BY A MECHANICAL THAN NATURAL SOIL. PERIMETER FOOTINGS. IT SHALL BE WELL FOR A SINGLE STORY DWELLING, AND 98% MINIMUM 100mm DEEP MAXIMUM 300mm DEEP UNDER
- 2. FILL WITH A GREATER DEPTH THAN THAT SPECIFIED WITHAS3798-2007, LEVEL 2. NATA ACCREDITED LABORATORY IN ACCORDANCE ABOVE SHALL BE INSTALLED AND CERTIFIED BY A
- BATTERED BY A SLOPE AS SPECIFIED ON DRAWING 3. FILL SHALL BE EXTENDED PAST THE EDGE OF THE G1024. FOR FILLING REQUIREMENTS IN RELATION TO EDGE BEAMS, REFER DRAWING G1024. RESIDENCE AND SHALL BE RETAINED OR

EXCAVATION

- TOPSOIL CONTAINING GRASS ROOTS OR VEGETATION SHALL THEN BE PROOF ROLLED PRIOR TO FILLING. SHALL BE REMOVED FROM THE FOUNDATION AREA. IT
- FOOTING EXCAVATIONS MUST BE FREE OF LOOSE EARTH, TREE ROOTS, MUD OR DEBRIS IMMEDIATELY BEFORE POURING CONCRETE.
- FOR EXCAVATION REQUIREMENTS ON SLOPING SITES **EXCAVATION FOR FOOTINGS, INCLUDING THICKENINGS** FOR SLABS AND PADS MUST BE CLEAN CUT WITH VERTICAL SIDES, WHEREVER POSSIBLE.
- BARNSON PTY LTD SHOULD BE CONSULTED BEFORE COMMENCING ANY EXCAVATIONS NEAR THE EDGE OF WHERE STEPPED BEAMS OR STEPPED STRIP FOOTING
- FOR ALLOWABLE EMBANKMENTS, FILL & CUT TYPE WHERE PROPOSED FOOTINGS ARE NEAR EXISTING BUILDINGS OR SERVICES, BARNSON PTY LTD MUST B CONTACTED AS DESIGN CHANGES MAY BE NECESSAR

BCA VOLUME 2, PART 3.1.1.

EXCAVATIONS REFER SECTION 6 OF AS2870-2011, AN

- ANY PERMANENT VERTICAL OR NEAR VERTICAL EXCAVATION BATTERED OR RETAINED. WITHIN 2m OF A BUILDING, AND DEEPER THAN 600mm SHALL BE
- THE GRADIENT OF UNPROTECTED EMBANKMENT FOR EXCAVATION INCLUDING BOTH CUT AND FILL SHALL BE ASCERTAINED FROM THE "UNPROTECTED EMBANKMENTS" TABLE.
- **EXCAVATION ADJACENT EXISTING BUILDINGS:**
- OR OTHER SIMILAR WORKS ARE TEMPORARY. CONSTRUCTED AS SOON AS PRACTICABLE AFTER EXPOSING THE B) ELEMENTS REQUIRED SHOULD BE INSTALLED & A) EXCAVATION WORK FOR FOOTINGS, DRAINAGE TRENCHES
- EXISTING BUILDING FOOTING. C) THE EXISTING FOOTING SHOULD NOT REMAIN EXPOSED
- AFTER THE COMPLETION OF WORKS.
- RETAINING WALLS OR OTHER TYPES OF SOIL RETAINING METHODS MUST BE INSTALLED WHERE:
- DESCRIBED IN THE "UNPROTECTED EMBANKMENTS" TABLE. THE "UNPROTECTED EMBANKMENTS" TABLE. B) SITE SOIL CLASSIFICATION OR DESCRIPTION IS NOT A) THE GRADIENT RATIO IS GREATER THAN THAT DESCRIBED
- LAYERS WITH A VIBRATING PLATE OR SIMILAR COMPACTION ASCERTAINED FROM THE "UNPROTECTED EMBANKMENTS" TABLE. 5. FILL SHALL BE PLACED AS FOLLOWS: EQUIPMENT TO ATTAIN STABILITY. B) GENERAL FILL SHALL BE PLACED AND COMPACTED IN A) THE GRADIENT RATIO OF FILL DETAILS SHALL BE
- EMBANKMENTS THAT ARE TO BE LEFT EXPOSED AT THE END OF SIMILAR WORKS TO PREVENT SOIL EROSION CONSTRUCTION WORKS MUST BE STABILISED BY VEGETATION OR

2		E CLA	A	CLAS	SITE NATI	
CLASS "H1", "H1-D","H2", "H2-D", "P"- SOFT SOILS	CLASS "S", "M", "M-D"- SOFT CLAY	CLASS "S", "M", "M-D" - FIRM CLAY	CLASS "A" - SAND	CLASS "A"- STABLE ROCK	SITE CLASSIFICATION OR NATURAL SOIL MATERIAL DESCRIPTION	UNPROTECTE
NOT SUITABLE	NOT SUITABLE	1:2	1:2	2:3	COMPACTED FILL V:H GRADIENT RATIO	UNPROTECTED EMBANKMENTS
NOT SUITABLE	2:3	1:1	1:2	1:8	<u>CUT</u> V:H GRADIENT RATION	

SSUED FOR APPROVAL





Date Description
17.12.9834 ISSUED FOR CONSTRUCTION
07.01.2025 ISSUED FOR REVIEW
30.03.2025 ISSUED FOR APPROVAL

10 ELEANOR DARK COURT MUDGEE NSW 2850 RESIDENTIAL FOOTING DESIGN

BRYAN AND DEBBIE TRACY

Ored Drawn SLAB AND FOOTING NOTES 1 ubition

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REINFORCEMENT

- ALL REINFORCEMENT SHALL BE IN ACCORDANCE WITH AS/NZS 4671-2019.
- REINFORCEMENT IS REPRESENTED
 DIAGRAMMATICALLY, AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.

 REINFORCEMENT DESIGNATIONS AS FOLLOWS:
- . REINFORCEMENT DESIGNATIONS AS FOLLOWS:
 A) N GRADE 500N HS DEFORMED BAR
 B) R GRADE 250R HOT ROLLED BAR
 C) SL GRADE 500L SQUARE MESH
- D) TM GRADE 500L TRENCH MESH FOR LAPPING OF SLAB FABRIC, REFER DRAWING G1002 FOR DETAILS.

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TRENCH MESH SHALL BE SPLICED WHERE NECESSARY
BY A LAP OF 500mm.
BENFORGEMENT BADS TO BE LABBED AS EQUIDADE

6 2

- REINFORCEMENT BARS TO BE LAPPED AS FOLLOWS:
 A) MESH-2 OUTER BARS OVERLAPPED WITH 2
 OUTERBARS+20mm
- B) N12 BARS = 500mm MIN
- () N16 BARS = 700mm MIN
- 7. ALL REINFORCEMENT IS TO BE ADEQUATELY
 SUPPORTED IN ITS REQUIRED POSITION. SUPPORT
 CHAIRS ARE TO BE AT 800mm MAX CENTRES, BOTH
 DIRECTIONS.
 SERVICE DEMETBATIONS SHALL BE ADDROVED BY
- SERVICE PENETRATIONS SHALL BE APPROVED BY BARNSON PTY LTD PRIOR TO POURING. ALL SERVICES THAT PENETRATE CONCRETE MEMBERS SHALL BE LAGGED OR SLEEVED. REFER DRAWING G1023 FOR DETAILS.
- NO CHASES OR HOLES ARE TO BE MADE IN CONCRETE MEMBERS U.N.O. WITHOUT THE APPROVAL OF BARNSON PTY LTD.
- 10. REFER DRAWING G1022 FOR REINFORCEMENT
 REQUIREMENTS ON SLOPING SITES WHERE STEPPED
 BEAMS OR STEPPED STRIP FOOTINGS ARE TO BE
 USED, AND FOR WHERE "L" AND "T" INTERSECTIONS
 OF BEAMS OCCUR.
- 11. WHERE THERE ARE SITE SPECIFIC REQUIREMENTS TO WIDEN SLAB BEAMS OR STEM WIDTHS, ADDITIONAL REINFORCMENT TO THAT SHOWN IN THE DETAILS SHALL BE PROVIDED TOP AND BTM, ACCORDING TO THE ADDITIONAL REINFORCEMENT TABLE AND DIAGRAM. BAR SIZE IS TO MATCH THE EXISTING SPECIFIED TOP & BTM BAR SIZE SHOWN IN THE DETAILS.

MESH LAPPING DETAILS

TWO OUTERMOST WIRES

20mm MIN
OF SHEET "A" OVERLAPPED
TYPICAL
WITH THE TWO OUTERMOST
WIRES OF SHEET "B" + 20mm MIN

"A"

"B"
20mm MIN
"A"

"A"

CONCRETE

- I. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600-2018, FORMWORK TO AS3610-2018
- CONCRETE SHALL NOT BE POURED WHEN THE AIR TEMPERATURE IS GREATER THAN 38° CELCIUS, OR LESS THAN 5° CELSIUS WITHOUT APPROVAL FROM BARNSON PTY LTD.
- CONCRETE SHALL BE GRADE N20 (20MPa STRENGTH AT 28 DAYS), HAVE A 20mm NOMINAL AGGREGATE SIZE, AND HAVE A NOMINAL 100mm SLUMP.
 NO ON SITE WATER IS TO BE ADDED TO THE CONCRETE WITHOUT PERMISSION OF BARNSON PTY
- 5. ALL CONCRETE IS TO BE VIBRATED
- CONCRETE IS TO BE CURED A MIN OF 7 DAYS
 COVER TO REINFORCEMENT SHALL BE AS FOLL
- COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:

 A) WAFFLE POD SLAB PANELS = 20mm (TOP)

 B) RAFT SLAB PANELS = 30mm (TOP)
- C) WAFFLE POD RIBS = 30mm (SIDE)
- U WAFFLE POU RIBS = 30mm (SIDE)D) WAFFLE AND RAFT SLAB BEAMS = 50mm (BOTTOM & SIDE)
- E) STRIP & PAD FOOTINGS = 50mm (ALL SIDES)

SLAB PIERING REQUIREMENTS

PIERS TO BE UTILISED IN THE FOLLOWING SITUATIONS:

 A) EDGE BEAMS & LOAD BEARING INTERNAL WALLS ARE
 FOUNDED ON UNCONTROLLED FILL.

B) ANY INTERNAL BEAMS/RIBS ARE LOCATED ON GREATER THAN 300mm OF UNCONTROLLED FILL.

C) WHEN THE FOUNDATION MATERIAL HAS AN ALLOWABLE BEARING CAPACITY Qa: OF LESS THAN THAT SPECIFIED IN GEOTECHNICAL NOTES.

D) WHEN PART OF AN EDGE OR INTERNAL BEAM IS FOUNDED ON ROCK, THEN THE REMAINDER OF THE BEAM/S ARE TO BE SUPPORTED ON BEARING PIERS FOUNDED ON SIMILAR MATERIAL.

E) WHEN PART OF AN EDGE BEAM IS FOUNDED

ADJACENT EXISTING FIXED SERVICES OR AN EASEMENT.

2. PIERS TO BE POSITIONED FROM UNDERSIDE OF BEAM TO 300 BELOW NATURAL GROUND LEVEL.

3. PIERS TO BE \$450 MASS CONCRETE UP TO 1500mm DEEP.

DEEPER PIERS SHALL BE \$450 REINFORCED WITH 4-N12 BARS VERTICAL, WITH R6 LIGS HORIZONTAL AT 300 MAX CRS.

4. PIER POSITIONING SHALL BE AS PER THE MINIMUM SHOWN ON DRAWINGS, OR AS PER THE FOLLOWING MINIMUM

SPACING REQUIREMENTS: # EDGE BEAM: 2400mm MAX CRS # INTERNAL RIBS: 3600mm MAX CRS

5. ADDITIONAL STEEL REINFORCEMENT IS REQUIRED TO THE TOP OF INTERNAL RIBS WHEN LOCATED ABOVE BEARING PIERS. REFER REINFORCEMENT REQUIREMENTS TABLE FOR DETAILS.

DADING NOTES

- 1. ALL LOADS ARE ACCORDING TO AS1170.1-2002
- 2. LIVE LOADS: 1.5 kPa RESIDENTIAL

MAJUNKT

- ALL WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH AS3700-2018.
- MASONRY SHALL NOT BE CONSTRUCTED ON CONCRETE ELEMENTS WITHIN 14 DAYS OF CASTING WITHOUT THE APPROVAL OF BARNSON PTY LTD.
- ARTICULATION OF MASONRY SHALL BE IN ACCORDANCE WITH TECHNICAL NOTE 61 BY THE CEMENT, CONCRETE & AGGREGATES AUSTRALIA. www.ccaa.com.au

SERVICE PENETRATION NOTES

- HORIZONTAL SERVICE PENETRATIONS AS DEPICTED ARE
 DESIGNED TO SUIT PIPES UP TO A MAXIMUM DIAMETER OF
 ONE THIRD OF THE DESIGN BEAM DEPTH. i.e. D/3.
 ALL HORIZONTAL PIPE PENETRATIONS THROUGH SLAB
- L. ALL HORIZONTAL PIPE PENETRATIONS THROUGH SLAB BEAMS OR RIBS ARE TO BE WRAPPED IN CLOSED CELL POLYETHYLENE LAGGING TO SUIT THE SITE CLASSIFICATION. NO LAGGING IS REQUIRED FOR SITE CLASSIFICATIONS A AND S. LAGGING SHALL BE A MINIMUM 20mm THICK ON CLASS M, M-D, H1 AND H1-D SITES.

 LAGGING SHALL BE A MINIMUM 40mm THICK ON CLASS H2, H2-D AND E SITES. OR ALTERNATIVELY PROVIDE SLEEVE WITH SIMILAR ALLOWABLE MOVEMENT.
- LAGGING NOT REQUIRED FOR VERTICAL SERVICE PANEL PENETRATIONS
- 4. WAFFLE POD SLAB TOP AND BOTTOM REINFORCEMENT REQUIRED SHALL BE ASCERTAINED FROM THE REINFORCEMENT REQUIREMENTS TABLE ON DRAWING G1021

SITES WITH SALINE AND SULFATE SOILS

- IN AREAS ADVISED BY THE LOCAL AUTHORITY TO HAVE AGGRESSIVE SOILS THE FOLLOWING MINIMUM REQUIREMENTS ARE TO TAKE PRECEDENCE OVER ANY NOTATION WITHIN THE DRAWING SET:
- A) THE DAMP-PROOFING MEMBRANE SHALL CONSIST OF A SUITABLE 0.5mm THICK DAMP-PROOFING MATERIAL COMPLYING WITH AS/NZS 2904 AND LAPPED A MINIMUM OF 75mm VERTICALLY OR HORIZONTALLY. DAMP-PROOFING MEMBRANE IS TO BE INSTALLED AND TERMINATED AT FINISHED GROUND OR PAVING LEVEL.

B) CONCRETE IS TO BE MINIMUM GRADE N32 (32 MPA STRENGTH AT 28 DAYS AGE). ACTUAL CONCRETE GRADE TO BE UTILISED ON SITE IS TO BE IN ACCORDANCE WITH TABLE 5.3 OF AS2870-2011. TABLE 5.3 IS TO BE READ IN CONJUNCTION WITH TABLES 5.1 AND 5.2 OF AS2870-2011 FOR SITE EXPOSURE CLASS FOR SALINE OR SULFATE SOILS.

ISSUED FOR APPROVAL

Darnson DESIGN . PLAN , MANAG



Rev Date Description
o 1712-1914 ISSUED FOR CONSTRUCTION
A 0725-2005 ISSUED FOR REVIEW
B 10.03-2015 ISSUED FOR APPERIVAL

RESIDENTIAL FOOTING DESIGN

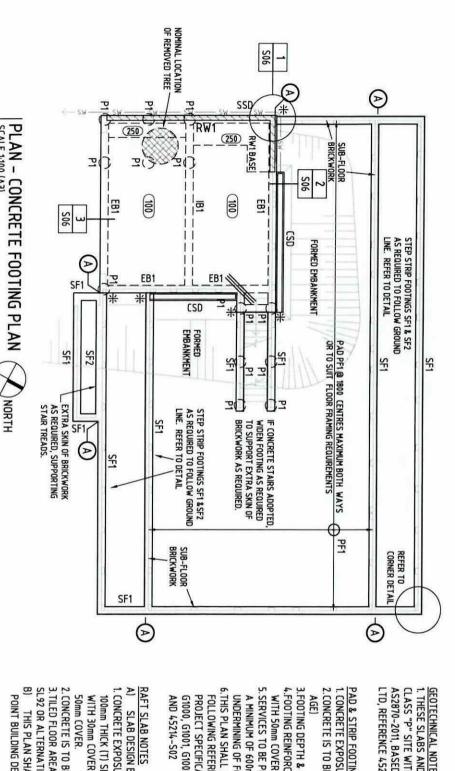
De Address
10 ELEANOR DARK COURT
MUDGEE NSW 2850

BRYAN AND DEBBIE TRACY

Design - Drawn LH Drawn JS

SLAB AND FOOTING NOTES 2
SLAB AND FOOTING NOTES 2
Design - Cognid Freet

B Project No



EOTECHNICAL NOTES

AS2870-2011, BASED UPON GEOTECHNICAL REPORT BY BARNSON PTY CLASS "P" SITE WITH SOIL REACTIVITY CLASS "M-D" AS DEFINED BY 1. THESE SLABS AND FOOTINGS HAVE BEEN DESIGNED FOR A LTD, REFERENCE 45214-GR01_A DATED 6TH AUGUST 2024

PAD & STRIP FOOTING NOTES

- 1. CONCRETE EXPOSURE CLASSIFICATION = A1x TO AS3600-2009
- 2.CONCRETE IS TO BE GRADE N25 (25 MPa STRENGTH AT 28 DAYS
- 3.FOOTING DEPTH & WIDTH AS PER RELATIVE DETAILS 4.FOOTING REINFORCEMENT AS SPECIFIED IN RELEVANT DETAILS
- 5. SERVICES TO BE PLACED IN A 300mm WIDE x 450mm DEEP TRENCH UNDERMINING OF FOOTINGS. A MINIMUM OF 600mm FROM EDGE OF BUILDING TO AVOID
- 6.THIS PLAN SHALL BE READ IN CONJUNCTION WITH THE G1000, G1001, G1002, G1003, G1004, G1005, G1006, G1007, G1008, FOLLOWING REFERENCE DRAWINGS WHICH FORM PART OF THE PROJECT SPECIFICATION:
- RAFT SLAB NOTES
- SLAB DESIGN BASED UPON CLAD FRAME
- .. CONCRETE EXPOSURE CLASSIFICATION = A1 TO AS3600-2009 50mm COVER. WITH 30mm COVER, BEAM BOTTOM REINFORCEMENT AS SPECIFIED WITH 100mm THICK (T) SLAB REINFORCED WITH ONE LAYER SL72 MESH TOP
- 3.TILED FLOOR AREAS >16m2 ARE TO BE PROVIDED WITH SLAB MESH IN 2. CONCRETE IS TO BE GRADE N25 (25 MPa STRENGTH AT 28 DAYS) SL92 OR ALTERNATIVELY WAIT 90 DAYS BEFORE TILING
- POINT BUILDING DESIGN, REFERENCE 1368, REVISION B, DATED28/10/2024 THIS PLAN SHALL BE READ IN CONJUNCTION WITH PLANS BY ON

BORED PIER NOTES

- 1. CONCRETE EXPOSURE CLASSIFICATION = A1 TO AS3600-2018
- 2. CONCRETE IS TO BE GRADE N25 (25 MPa STRENGTH AT 28 DAYS AGE)
- 3. PIER DEPTH & WIDTH AS PER RELATIVE DETAILS

CSD - CONCRETE SURFACE DRAIN - SF1, SF2 TO EB1, REFER TO DETAIL

SSD - SUB-SURFACE DRAIN

SCALE 1:100 (A3)

1000

2000

4000

- 4. PIER REINFORCEMENT AS SPECIFIED IN RELEVANT DETAILS
- 5. SERVICES TO BE PLACED IN A 300mm WIDE x 450mm DEEP AVOID UNDERMINING OF FOOTINGS TRENCH A MINIMUM OF 600mm FROM EDGE OF BUILDING TO

100

DENOTES THICKNESS OF SLAB

PROPOSED STORMWATER DRAINAGE LINES

(E)

ARTICULATION OF MASONRY SHALL BE IN ACCORDANCE

DENOTES MASONRY ARTICULATION JOINTS LONG TIED TO UNDERSIDE OF MESH

WITH TECHNICAL NOTE 61 - AUGUST 2008 BY THE

CEMENT, CONCRETE & AGGREGATES AUSTRALIA.

DENOTES 3-N12 BARS x 2000 LONG OR 3-L11TM x 2000

SSUED FOR APPROVAL



m > 0 ? 17 12.2024 97.03.2025 10.03.2025 Description

4 ISSUED FOR CONSTRUCTION

5 ISSUED FOR REVIEW

5 ISSUED FOR REPROVAL

10 ELEANOR DARK COURT MUDGEE NSW 2850 RESIDENTIAL FOOTING DESIGN

BRYAN AND DEBBIE TRACY

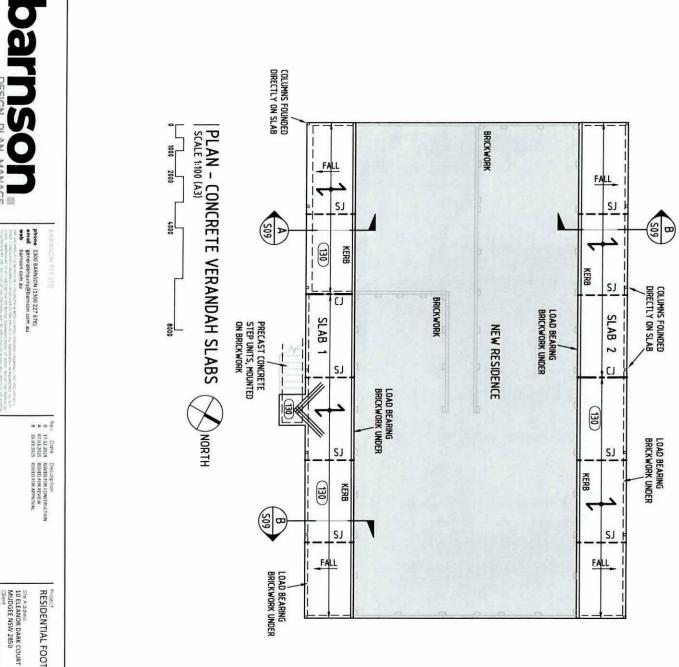
RESIDENCE FLOOR SLAB AND FOOTING PLAN

Drawn Check

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A3 B

45214



NATA REGISTERED LABORATORY.
7. M19 x 75mm SHEAR STUDS COMPLYING WITH

STUD WELDING GUN TO AS1554-2011.

SUPPORTS AT 200 MAX CTS, USING A HAND HELD ARC

AS2327.1-2003 ARE TO BE PROVIDED TO STEELWORK

DETERMINED BY SAMPLE CYLINDER TESTING BY A UNTIL CONCRETE REACHES MIN 20 MPa STRENGTH, AS 5. ONE ROW OF TEMPORARY PROPS TO BE PROVIDED FOR

EACH SPAN >1.8m.

4. BONDEK TO HAVE MIN BEARING DISTANCE 50mm, AND TO

BE INSTALLED AS PER MANUFACTURERS SPECIFICATIONS

6. TEMPORARY PROPS AND FORMWORK TO REMAIN IN PLACE

CONCRETE IS TO BE GRADE N32 (32 MPa STRENGTH AT 2. 130mm THICK (T) SLAB ON 0.75 BMT BONDEK REINFORCED

28 DAYS)

WITH ONE LAYER SL82 MESH TOP WITH 30mm COVER.

CONCRETE EXPOSURE CLASSIFICATION = A1 TO AS3600-2018

SUSPENDED SLAB NOTES

LEGEND

DENOTES 3-N12 BARS x 2000 LONG OR 3-L11TM x 2000 LONG

TIED TO UNDERSIDE OF MESH

PLACED WITHIN 24 HOURS OF CONCRETE POUR REFER

DENOTES TOOL JOINT OR SAW CUT TO 1/3 SLAB DEPTH,

RESIDENTIAL FOOTING DESIGN

FALL i

DENOTES THICKNESS OF SLAB

INDICATES SPAN DIRECTION OF BONDEK RIBS

INDICATES FALLING LEVELS TO FINISHED SURFACE OF SLAB

DENOTES CONSTRUCTION JOINT – REFER DETAIL

Drawn

CONCRETE VERANDAH SLAB PLANS

ISSUED FOR APPROVAL

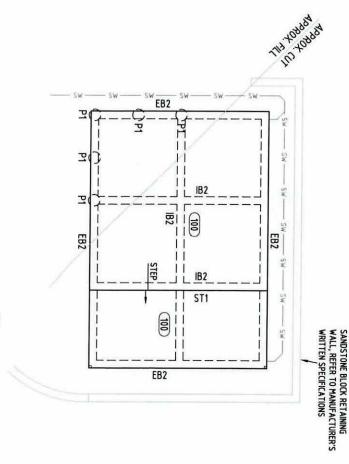


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B Drawing No

BRYAN AND DEBBIE TRACY

Check



SCALE 1:100 (A3) PLAN - SHED FLOOR SLAB NORTH

2000

8000

ANY FALL OR STEP WITHIN SLAB SURFACE TO ARCHITECTS SPECIFICATION 100 **DENOTES THICKNESS OF SLAB**

DRAINAGE LINES PROPOSED STORMWATER

= > 0 0 V Date 17:12:1024 97:93:1025 19:03:2025

3. PIER DEPTH & WIDTH AS PER RELATIVE DETAILS 4. PIER REINFORCEMENT AS SPECIFIED IN RELEVANT DETAILS WITH 50mm COVER

1. CONCRETE EXPOSURE CLASSIFICATION = A1 TO AS3600-2018
2. CONCRETE IS TO BE GRADE N25 (25 MPa STRENGTH AT 28

DAYS AGE)

BORED PIER NOTES

3. CONCRETE IS TO BE GRADE N25 (25 MPa STRENGTH AT 28 DAYS) 4.TILED FLOOR AREAS >16m² ARE TO BE PROVIDED WITH SLAB MESH IN

SL92 OR ALTERNATIVELY WAIT 90 DAYS BEFORE TILING

POINT BUILDING DESIGN, REFERENCE 1368, REVISION B, DATED 28/10/2024

THIS PLAN SHALL BE READ IN CONJUNCTION WITH PLANS BY ON

2.100mm THICK (T) SLAB REINFORCED WITH ONE LAYER SL72 MESH TOP WITH 30mm COVER, BEAM BTM REINFORCEMENT AS SPECIFIED WITH 50mm

A) SLAB DESIGN BASED UPON CLAD FRAME

1. CONCRETE EXPOSURE CLASSIFICATION = A1 TO AS3600-2009

RAFT SLAB NOTES

5. SERVICES TO BE PLACED IN A 300mm WIDE x 450mm DEEP TRENCH A MINIMUM OF 600mm FROM EDGE OF BUILDING TO AVOID UNDERMINING OF FOOTINGS.

ISSUED FOR APPROVAL

phone 1300 BARNSON (1300 227 676)
email generalenquiry@barnson.com.au
web barnson.com.au

barnsol

RESIDENTIAL FOOTING DESIGN

CONCRETE FLOOR SLAB PLAN SHED

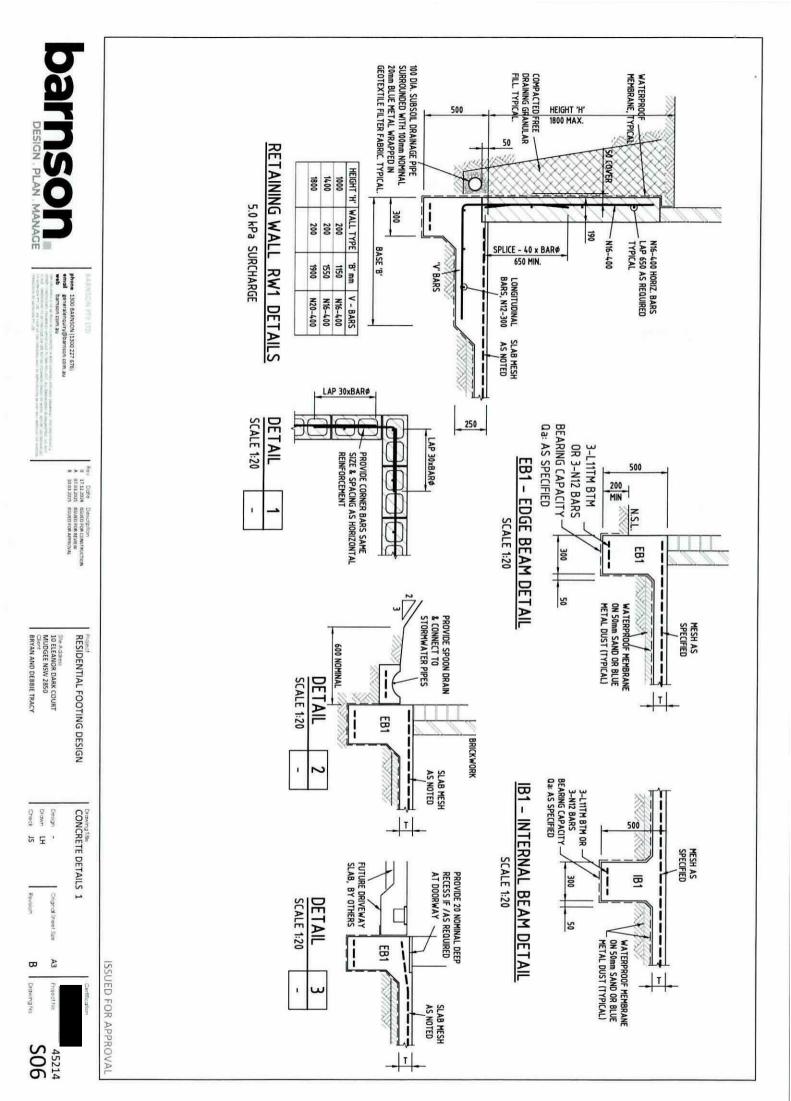
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10 ELEANOR DARK COURT
MUDGEE NSW 2850
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BRYAN AND DEBBIE TRACY

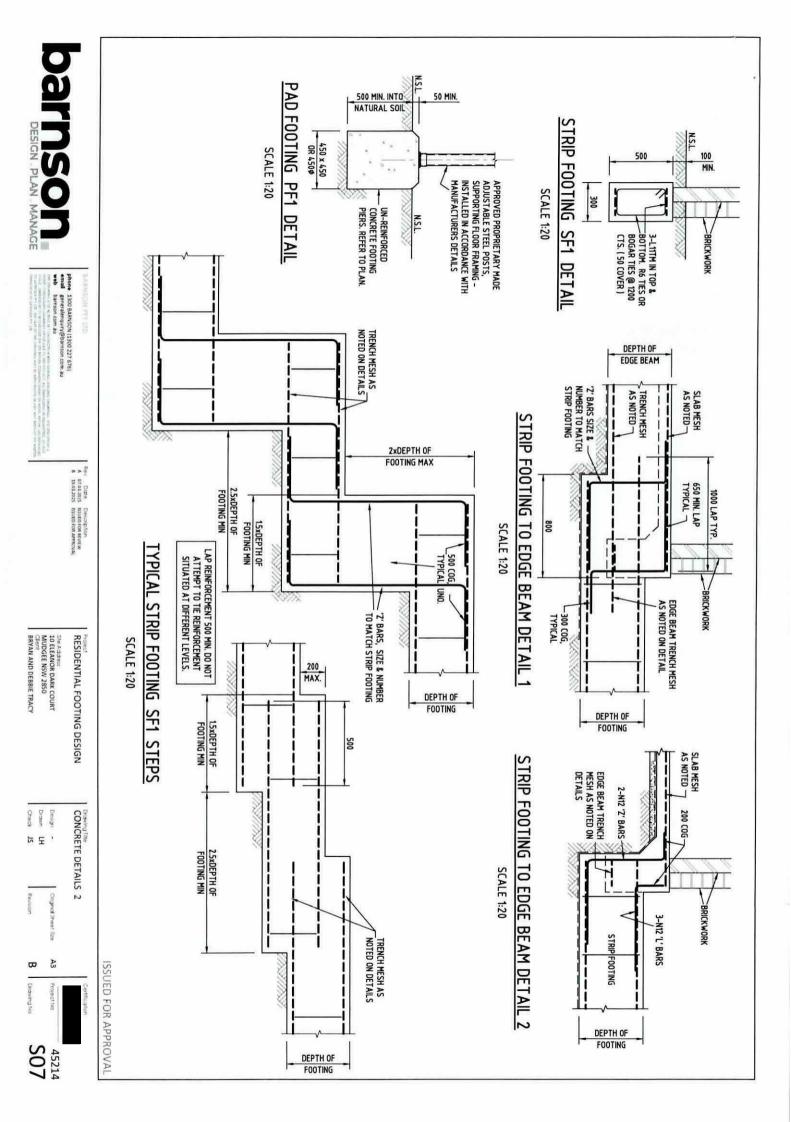
Design

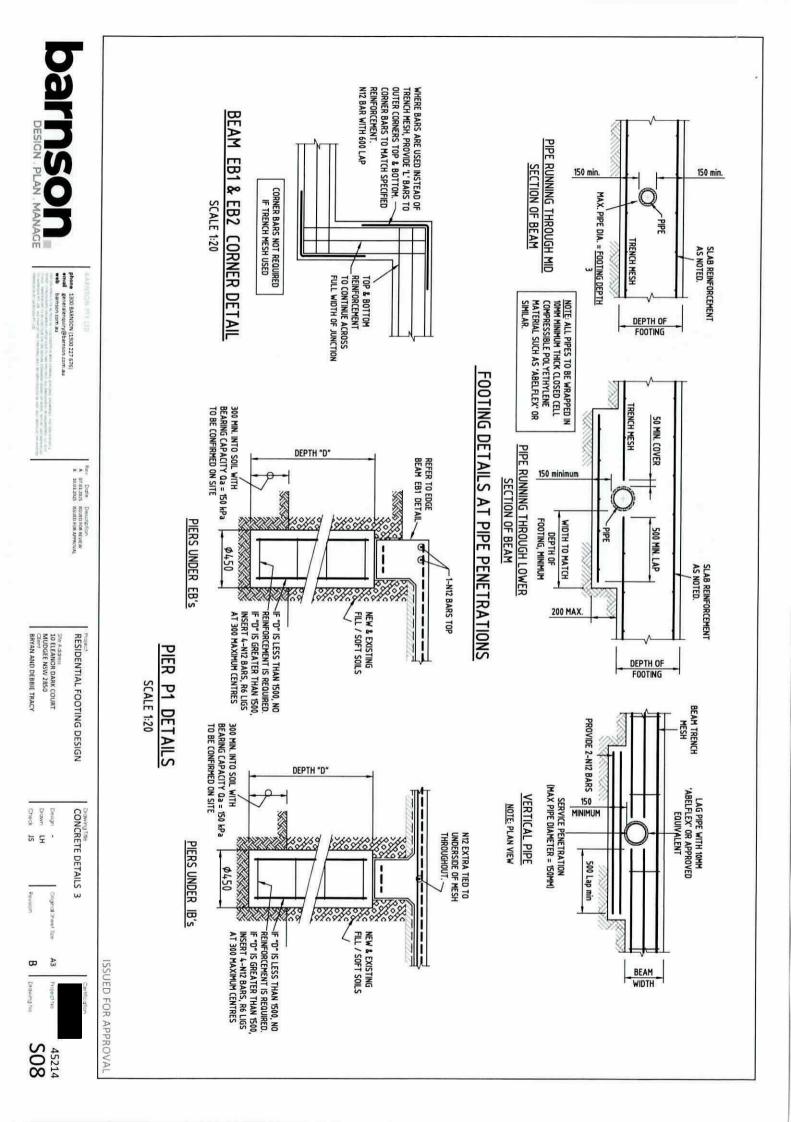
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A3 В Drawing No

S05 45214













In address

10 ELEANOR DARK COURT

MUDGEE NSW 2850

Cleart

BRYAN AND DEBBIE TRACY

Drawn

Original Sheet Size

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S09 45214

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RESIDENTIAL FOOTING DESIGN

CONCRETE DETAILS 3

CONSTRUCTION JOINT (CJ) SAWN CONTROL JOINT (S.J.) BONDEK AS SPECIFIED. NOTE: SAWCUT TO BE MADE 16 HOURS
MAX. AFTER SLAB IS POURED REMOVE EVERY SECOND WIRE DIRECTLY UNDER GROOVE OF SLAB DEPTH

SCALE 1:20

R20-300 DOWEL BARS × 450 LONG BARS SHOULD BE SQUARE CUT & PLACED SQUARE TO THE JOINT PROVIDE BOND BREAKER TO NEW

COMPRESSIBLE JOINT FILLER
TO FULL DEPTH. 10mm x 10mm
APPROVED SEALANT OVER

50mm CLEAR OF JOINT MESH AS SPECIFIED. STOP

DEFLECT FABRIC LOCALLY UNDER GROOVE

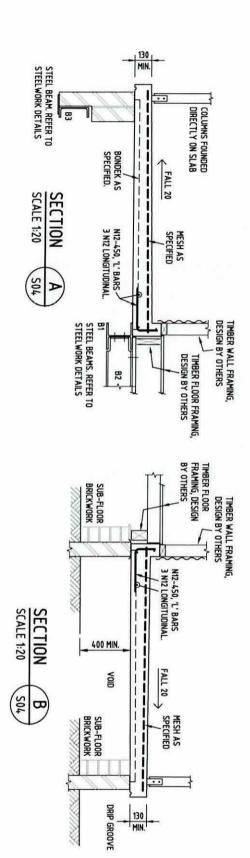
3mm WIDE SAWN OR TROWELLED GROOVE

NEW POUR

10 JOINT

EXISTING SLAB OR FIRST POUR

BONDEK AS SPECIFIED.



ISSUED FOR APPROVAL



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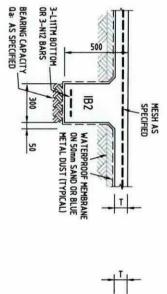
3-L11TM BOTTOM_ OR 3-N12 BARS BEARING CAPACITY

Qa: AS SPECIFIED 500 200 MIN CLADDING N.S.L. EB2 TIMBER OR STEEL FRAMING WATERPROOF MEMBRANE ON 50mm SAND OR BLUE METAL DUST (TYPICAL) MESH AS SPECIFIED 1

IB2 - INTERNAL RIB DETAIL **SCALE 1:20**

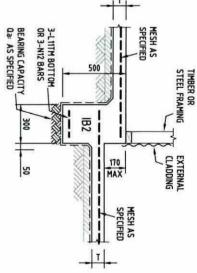
EB2 – EDGE BEAM DETAIL

SCALE 1:20



ST1 - STEP DOWN DETAIL

SCALE 1:20



RESIDENTIAL FOOTING DESIGN

CONCRETE DETAILS 4

30e Address
10 ELEANOR DARK COURT
MUDGEE NSW 2850
Client
BRYAN AND DEBBIE TRACY

Design Drawn Check

AB 8 Drawing No.

ISSUED FOR APPROVAL

45214

STRUCTURAL STEELWORK NOTES

1.0 ALL WORKMANSHIP & MATERIALS TO BE IN ACCORDANCE WITH 1.1 MATERIALS - ALL STRUCTURAL STEEL TO BE IN ACCORDANCE STRUCTURAL STEELWORK FABRICATION & ERECTION AS4100-2020 STEEL STRUCTURES AND AS/NZS 5131-2016

WITH AS4100-2020 FOR THE BELOW GRADES (UNO) a) ROLLED SECTIONS - GRADE 300 PLUS b) HOLLOW SECTIONS - GRADE 350

d) PURLINS/GIRTS - MINIMUM GRADE 450 TO AS1397-2021. c) PLATE - GRADE 250 PROVIDED WITH CONNECTIONS AND BRIDGING TO TO BE STRAMIT OR LYSAGHT MANUFACTURE AND

1.2 CONSTRUCTION CATEGORY - IN ACCORDANCE WITH THE CATEGORIES FOR THIS PROJECT ARE DEFINED IN THE TABLE REQUIREMENTS OF AS/NZS 5131 THE CONSTRUCTION MANUFACTURERS SPECIFICATION

ALL STRUCTURAL STEELWORK	ELEMENT
IL2	IMPORTANCE LEVEL
135	SERVICE CATEGORY
FC1	CATEGORY CATEGORY
ננצ	FABRICATION CONSTRUCTION CATEGORY

2.0 STRUCTURAL STEELWORK FABRICATION - ALL STRUCTURAL STEELWORK SHALL BE FABRICATED IN ACCORDANCE WITH

QUALIFICATIONS FOR COMPETENT PERSONNEL ARE CONTAINED COMPETENT PERSONNEL. REQUIREMENTS AND EXAMPLES OF ALL WORK ON THIS PROJECT SHALL BE UNDERTAKEN BY

DRAWINGS. NO SUBSTITUTION IS PERMITTED WITHOUT MEMBER SIZES SHALL BE AS SHOWN ON THE STRUCTURAL APPROVAL IN WRITING FROM THE ENGINEER.

8.8/5 HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 AS/NZS 5131 COMMERCIAL GRADE 4.6 BOLTS TO AS 1111, AS 1110 TIGHT CONDITION TO AS/NZS 5131 TO AS/NZS 1252.1, AS 1110 TIGHTENED TO A SNUG FIGHTENED TO A SNUG TIGHT CONDITION TO

STRUCTURAL STEELWORK NOTES continued

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

2.6 WELDING - ALL SHOP AND SITE WELDS TO BE - WELD 8.8/TF HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 AS/NZS 5131 AS A FRICTION JOINT TO AS/NZS 1252.1, FULLY TENSIONED TO

CONFORM TO THE REQUIREMENTS OF AS/NZS 1554, BASED ON CATEGORY G.P. E48 UNO. WELDING CONSUMABLES SHALL DEFINED BELOW THE YIELD STRENGTH OF THE STEEL TO BE WELDED, AS

a) NOMINAL YIELD STRENGTH OF STEEL TO BE WELDED AS/NZS 1554.1 ≤ 500MPa TO CONFORM WITH AUSTRALIAN STANDARD

b) NOMINAL YIELD STRENGTH OF STEEL TO BE WELDED STANDARD AS/NZS 1554.4 >500MPa; ≤ 690MPa TO CONFORM WITH AUSTRALIAN

c) NOMINAL YIELD STRENGTH OF STEEL TO BE WELDED ALL

STEEL WITH GRADE < 300MPa, NOMINAL TENSILE STRENGTH OF WELD METAL, Fuw 430MPa.

d) NOMINAL YIELD STRENGTH OF STEEL TO BE WELDED ALL STEEL WITH 300 ~ GRADE < 450 MPa, NOMINAL TENSILE STRENGTH OF WELD METAL, Fuw 490MPa.

2.7 MINIMUM CONNECTION DETAILING GUIDELINES - UNLESS SHOP AND SITE WELDS - WELD CATEGORY G.P. UNO FOLLOWING MINIMUM REQUIREMENTS: CONNECTION DETAILS SHALL BE IN ACCORDANCE WITH THE SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS,

a) ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELD (CFW) ALL ROUND.

b) ALL STEEL TO STEEL BOLTED CONNECTIONS SHALL BE MINIMUM TWO M20 GRADE 8.8/S.

c) A MINIMUM OF TWO THREADS SHALL EXTEND PAST THE

d) ALL PLATES SHALL BE 10mm MINIMUM THICK

STRUCTURAL STEEL' AND THE ASI STANDARDIZED CURRENT EDITIONS OF THE 'DESIGN CAPACITY TABLES FOR STRUCTURAL CONNECTION DETAILS CONTAINED THEREIN ACCORDANCE WITH THE AUSTRALIAN STEEL INSTITUTE (ASI) ALL DETAILING WHERE NOT SPECIFICALLY SHOWN SHALL BE IN e) ALL PURLIN CLEATS SHALL BE 8mm MINIMUM THICK.

STRUCTURAL STEELWORK NOTES continued

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

2.8 SURFACE TREATMENT AND CORROSION PROTECTION - UNLESS SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131' OF AS/NZS 5131. STRUCTURAL STEELWORK TO BE GALVANIZED NOTED OTHERWISE IN THE CONTRACTUAL DOCUMENTATION, THE EXTERNAL STEELWORK SHALL CONFORM TO THE REQUIREMENTS MINIMUM SURFACE TREATMENT OF BOTH INTERNAL AND

3.0 STRUCTURAL STEELWORK ERECTION - STRUCTURAL OF AS/NZS 5131. STEELWORK ERECTION SHALL CONFORM TO THE REQUIREMENTS

NATURAL CAMBER UP. ALL MEMBERS HAVING A NATURAL CAMBER WITHIN THE STRAIGHTNESS TOLERANCE SHALL BE ERECTED WITH THE

4.1 ADDITIONAL CLAUSES - THE STRUCTURAL STEELWORK DURING ERECTION. ERECTOR SHALL BE RESPONSIBLE FOR TEMPORARY STABILITY

TO SECURELY STABILIZE THE STRUCTURE DURING ERECTION CONSTRUCTED, SUCH TEMPORARY BRACING AS IS NECESSARY LEAVE IN PLACE UNTIL PERMANENT BRACING ELEMENTS ARE THE STRUCTURAL STEELWORK ERECTOR SHALL PROVIDE AND

4.2 SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL. NO RESOL VED. REVIEW COMMENTS ON THE WORKSHOP DRAWINGS HAVE BEEN STEELWORK SHALL BE FABRICATED UNTIL FINAL APPROVAL OF THE SHOP DETAIL DRAWINGS HAS BEEN RECEIVED AND ALL

4.3 OTHER THAN SITE WELDS (IF ANY) SHOWN ON THE SHOP DRAWINGS, DO NOT WELD ON SITE WITHOUT PRIOR APPROVA

4.4 CONCRETE ENCASED STEELWORK SHALL BE UNPAINTED AND REQUIREMENTS. ENCASEMENT. REFER TO DRAWINGS FOR ANY REINFORCEMEN: PLACED CENTRALLY WITH 75mm MINIMUM COVER CONCRETE ENCASEMENT. ALL STEELWORK BELOW GROUND SHALL BE PLACED CENTRALLY WITH 50mm MINIMUM COVER CONCRETE FREE OF SCALE. ALL STEELWORK ABOVE GROUND SHALL BE

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generalenquiry@barnson barnson.com.au generalenquiry@barnson.com.au

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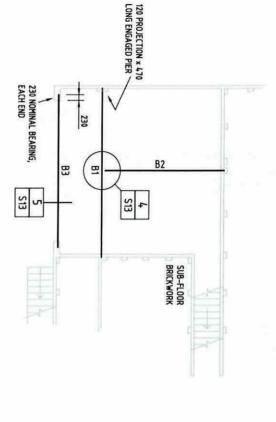
STEELWORK NOTES

10 ELEANOR DARK COURT
MUDGEE NSW 2850
Client **BRYAN AND DEBBIE TRACY**

Drawn 5 5

A3 B





STRUCTURAL STEELWORK DURABILITY NOTES
1. ATMOSPHERIC CORRISIVITY CATEGORY C2 TO AS4312-2008:

A) COVERED STEELWORK: CLASS 2.5 BLAST PLUS

AS2312.1-2014 OR ILG 100 TO AS4792-2006. 75 MICRON ZINC SILICATE COATING TO

C) COLD FORMED STEELWORK: AZ150 OR AM150 B) EXPOSED STEELWORK: HDG320 TO AS4680-2006.

TO AS1397-2011

B1, 2 STEELWORK MEMBER SCHEDULE 250 PFC + 10 FLANGE PLATE 200UC 50 BEAM BEAM REMARKS

PLAN - STEEL WORK MARKING SCALE 1:100 (A1) & 1:200 (A3)

RESIDENTIAL FOOTING DESIGN

STEELWORK MARKING PLAN

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Drawn

AB B Drawing No.

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SPE Address
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CHert
BRYAN AND DEBBIE TRACY

45214 **S12**





DETAIL

SCALE 1:10

S12

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CONCRETE VERANDAH SLAB. REFER TO CONCRETE DETAILS 12 END PLATE. FULLY
WELD, BOTH SIDES TO B2.
4 M16 8.8/S BOLTS CLADDING (BRICKWORK 20 BEAM B1 DETAIL SCALE 1:10 TIMBER WALL FRAMING, DESIGN BY OTHERS WELD 150, BOTH SIDES, EACH END, MISS 300, WELD 75, THROUGHOUT LENGTH BEAM B3 MORTAR BEDDING REQUIRED - 15R TIMBER FLOOR FRAMING, DESIGN BY OTHERS **S12** TIMBER FIXING PLATE.
STAGGER BOLT FIX TO
B2 - M12 @ 600CENTRES BEAM B2

> SCALE 1:10 SECTION

TECO' TRIP-L-GRIP TYPE 'A'
EACH SIDE. FULLY NAIL TO
BOTH VERTICAL & HORIZONTAL
SURFACES.

B2

TIMBER FIXING PLATE.
STAGGER BOLT FIX TO
B2 - M12 @ 600CENTRES

TIMBER FLOOR FRAMING, DESIGN BY OTHERS

RESIDENTIAL FOOTING DESIGN

Site Address
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MUDGEE NSW 2850
Client
BRYAN AND DEBBIE TRACY

Drawn Oreck ᅜ

Original Sheet Size

STEELWORK DETAILS

A

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В Drawing No. 45214