abvd design

Consulting Structural and Civil Engineers

48 O'Neill Street, Brighton-Le-Sands NSW 2216 Phone: 02 9587 9192

27 June 2014

STRUCTURAL DESIGN CERTIFICATE

Re: Proposed Timber Deck at: 152 Parkriver Close, Mulgoa

We certify that the proposed timber deck footings 300mm diameter 20MPa mass concrete piers 600mm deep @ 1.8m centres are structurally adequate in accordance with AS1170, AS2870 and AS3600 requirements.

Yours faithfully,

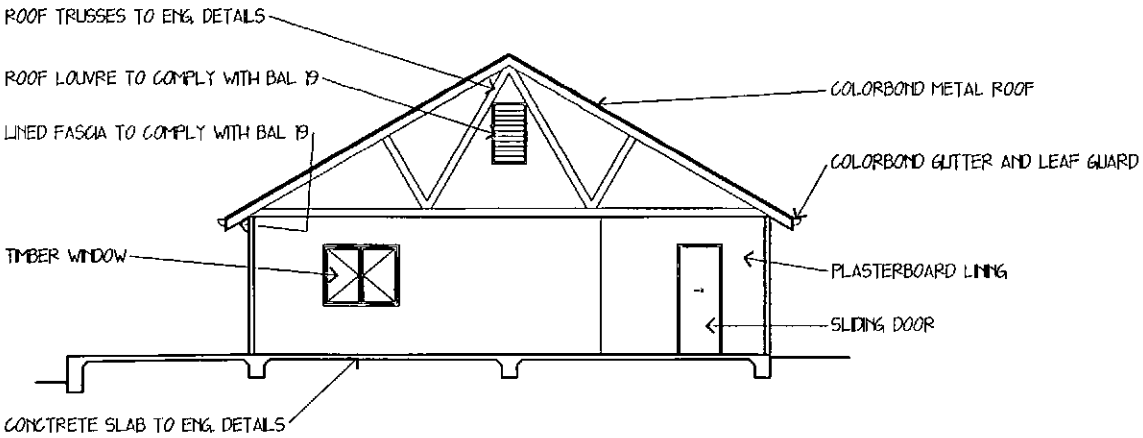
D. Miladinovic, MIE Aust, CPEng

ABVD Design

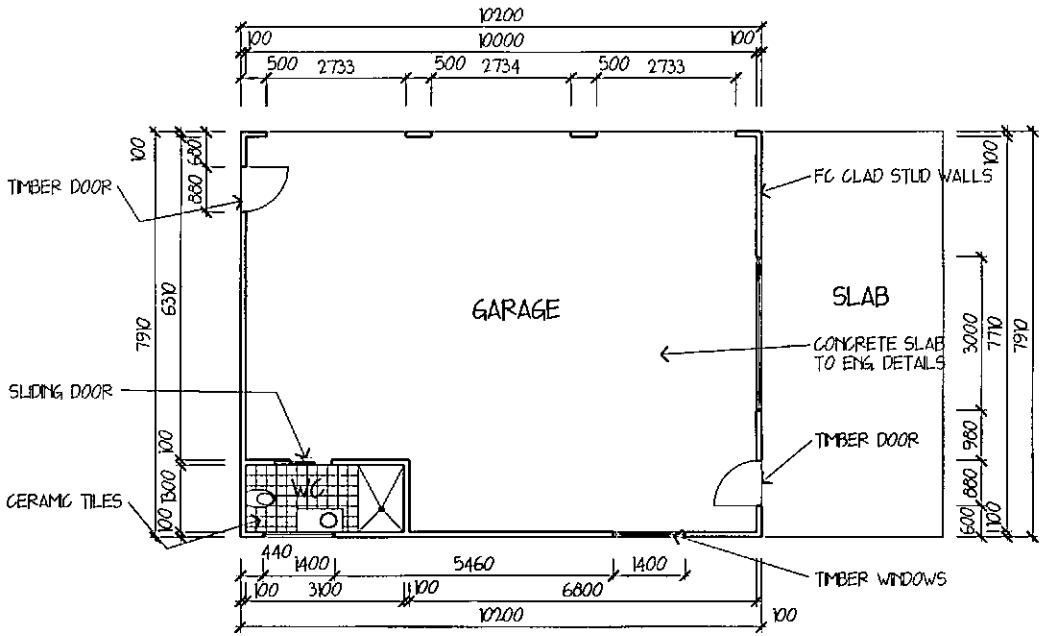
SPECIFICATION

THE GARAGE IS CONSTRUCTED TO SECTION 3 AND BAL 19 UNDER SECTION 6 OF AS3959 - 2009.

- ROOF COLORBOND METAL DECKING
- ALL GUTTERS TO HAVE LEAF GUARDS TO COMPLY WITH BAL 19
- TRUSSES TO ENGINEERS DETAILS
- EAVES LINING TO COMPLY WITH BAL 19
- INTERNAL WALLS STANDARD TIMBER FRAMES CONSTRUCTION
- 90X45 STUDWORK
- PLASTERBOARD INTERNAL LINING
- TIMBER FRAMED WINDOWS AND DOORS
- REINFORCED CONCRETE FLOOR TO ENGINEERS DETAILS
- INSULATION 55MM BLANKET BENEATH ROOFING
- SELECTED WALL AND FLOOR TILES TO BATHROOM
- ALL FIXTURES ARE MINIMUM 3 STAR RATED
- ALL GLAZING TO COMPLY WITH AS1288 AND AS2047
- ALL WATERPROOFING TO COMPLY WITH AS3740



SECTION



PLAN

DOCUMENT CONTROL

ISSUE	DESCRIPTION	DATE

CONSULTANT

CLIENT

MS J CLAIR

PROJECT TITLE

152 PARKRIVER CLOSE
MULGOA 2745

DRAWING TITLE

FLOOR PLAN + SECTION - GARAGE

DRAWING NUMBER: DA04 — SCALE: 1:100@A3

PROJECT NUMBER: PCD29 — ISSUE: A

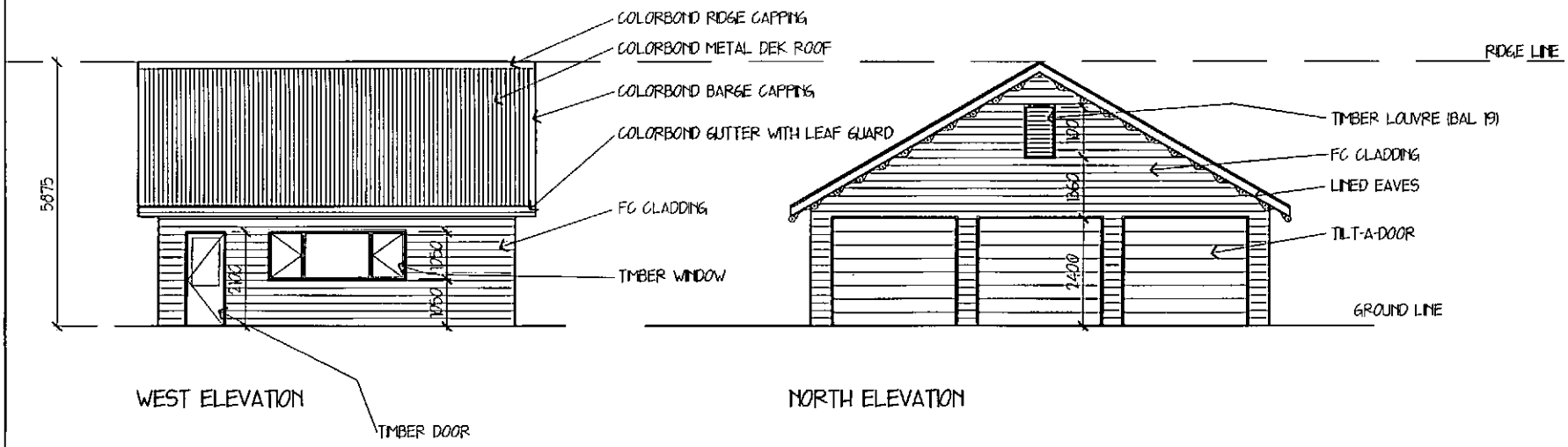
PETER CALF DESIGN

DO NOT SCALE DRAWINGS. CONTRACTOR TO CHECK ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORK. WORK TO FIGURED DIMENSIONS ONLY. REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK.

NOMINATED ARCHITECT: PETER GRAEME CALF 3063

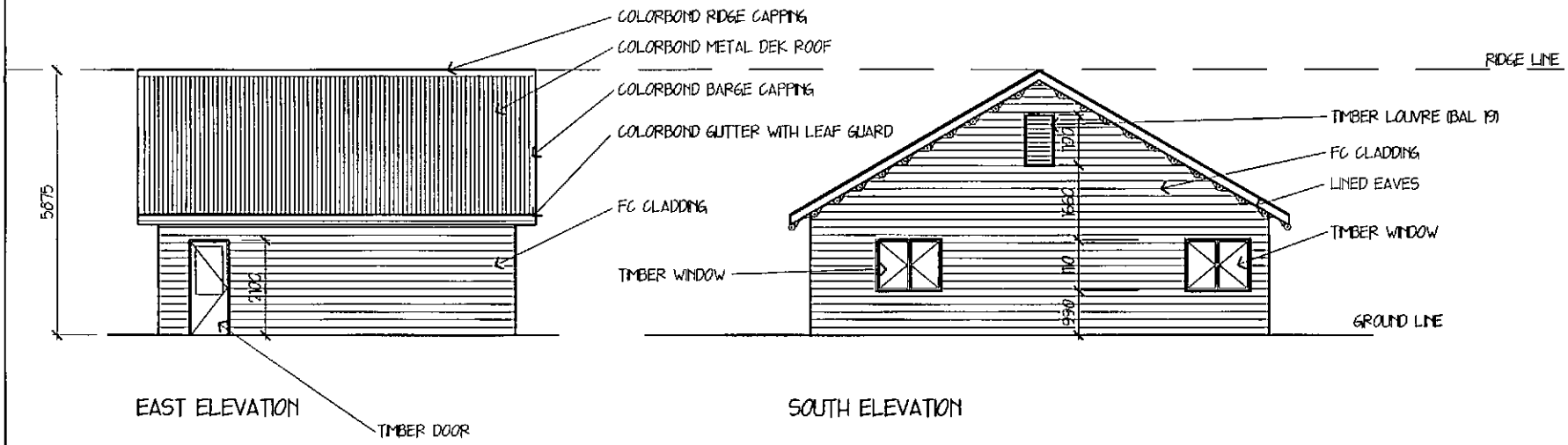
DOCUMENT CONTROL

ISSUE	DESCRIPTION	DATE



WEST ELEVATION

NORTH ELEVATION



EAST ELEVATION

SOUTH ELEVATION

CONSULTANT

CLIENT

MS J CLAIR

PROJECT TITLE

52 PARKRIVER CLOSE
MILLGOA 2745

DRAWING TITLE

ELEVATIONS - GARAGE

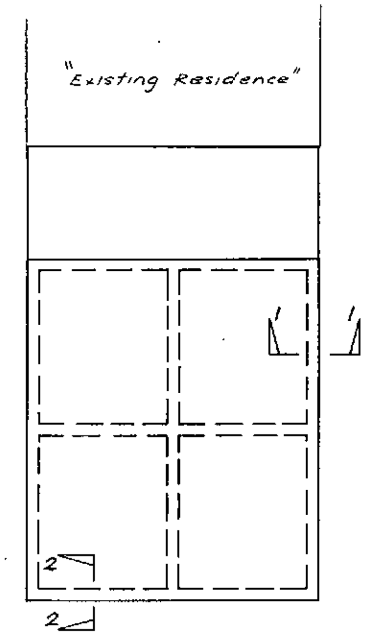
DRAWING NUMBER: DA05

SCALE: 1:100@A3

PROJECT NUMBER: PCD29

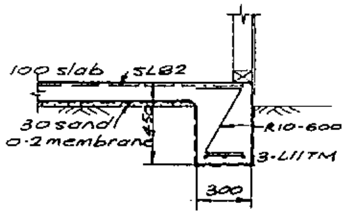
ISSUE: A

PETER CALF DESIGN

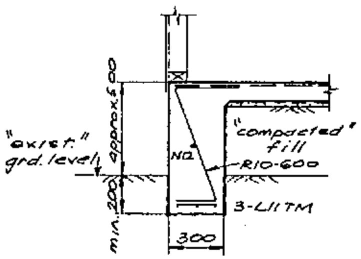


RAFT SLAB PLAN

Slab 100 mm thick, Reinf. SL82 mesh top
Beams 300 wide x 450 deep, Reinf. 3-L11 TM bottom.



SECTION 1-1



SECTION 2-2
(Deep Edge Beam)

CONSTRUCTION NOTES

GENERAL

G1 - THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL PLANS AND SPECIFICATIONS.
G2 - DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.
G3 - DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER AS REQUIRED.
G4 - ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SAA CODES, ORDINANCES AND BUILDING AUTHORITY.
G5 - THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS

Classification	Live load (Kpa)
RESIDENTIAL SLABS	2
OFFICES, PARKINGS, CORRIDORS	3
BALCONIES, STAIRS	4
FACTORIES, PLATFORMS	5
ROOFS	0.25

FOUNDATIONS

F1 - FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF [illegible] Kpa. SITE CLASS [illegible]
F2 - THE BUILDER SHALL OBTAIN APPROVAL OF THE FOUNDATION MATERIAL BEFORE PLACING CONCRETE.

CONCRETE

C1 - ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600.
C2 - CONCRETE STRENGTH F'c AT 28 DAYS: FOOTINGS [illegible] Mpa; SLABS AND BEAMS [illegible] Mpa; EXPOSED CONCRETE ____ Mpa; OTHER ____ Mpa
C3 - CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:

	Interior environment	Exterior environment	In contact with the ground
FOOTINGS	-	-	50
SLABS AND BEAMS	20	40	50
COLUMNS	30	40	50

C4 - SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF FINISHES.
C5 - SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN LOCATIONS SHOWN. WHERE LAP LENGTHS ARE NOT SHOWN THEY SHALL BE AS FOLLOWS: N12 - 300mm, N16 - 630mm, N20 - 800mm, N24 - 1130mm, N28 - 1300mm.
C6 - MINIMUM LAP FOR FABRIC SHALL BE TWO CROSS WIRES PLUS 25mm.
C7 - REINFORCEMENT SYMBOLS:
Y - DENOTES 410 Mpa STRESS GRADE DEFORMED BARS TO AS1302.
R - DENOTES 230Mpa GRADE HOT ROLLED PLAIN BARS TO AS1302.
SL OR RL - DENOTES 500 Mpa GRADE LOW DUCTILITY WELDED MESH TO AS4671
N - DENOTES 500 Mpa GRADE NORMAL DUCTILITY DEFORMED RIBBED BARS TO AS4671
C8 - CONCRETE SHALL BE MECHANICALLY VIBRATED.
C9 - CONCRETE SHALL BE WET-CURED FOR 7 DAYS AFTER PLACEMENT.
C10 - HORIZONTAL FORMWORK SHALL BE STRIPPED WHEN APPROVED BY THE ENGINEER.
C11 - DO NOT BUILD BRICKWORK ON SUSPENDED WORK UNTIL ALL PROPPING HAS BEEN REMOVED.

BRICKWORK AND BLOCKWORK

B1 - ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3700.
B2 - STRENGTH OF BRICKWORK SHALL BE 20Mpa, MORTAR 1:1:6. STRENGTH OF BLOCKWORK SHALL BE 15Mpa, MORTAR 1:4.
B3 - WHERE CONCRETE BEARS ON BRICKWORK IT SHALL BE SEPARATED THEREFROM BY TWO LAYERS OF ALUMINIUM CORE BITUMINOUS STRIP.
B4 - PROVIDE VERTICAL CONTROL JOINTS IN BRICKWORK AND BLOCKWORK AT 8.0m CENTRES MAX.

STRUCTURAL STEEL

S1 - ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4100, AS 1554, AS1111, AS1511, AS1163, AS1204, AS3678, AS3679, AS1538.
S2 - UNLESS OTHERWISE NOTED ALL BOLTS TO BE 20 DIA GRADE 8.8/S.
S3 - ALL CONNECTIONS TO HAVE 2 BOLTS MIN PER CONNECTION WITH GUSSET PLATES 10mm THICK, UNLESS NOTED OTHERWISE.
S4 - UNLESS OTHERWISE NOTED ALL WELDS TO BE 6mm CONTINUOUS FILLET FROM E41XX ELECTRODES.
- BUTT WELDS WHERE INDICATED SHALL BE FULL PENETRATION WELDS AS DEFINED IN AS1554.
S5 - THE BUILDER SHALL SUBMIT 2 SETS OF SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR COMMENCING FABRICATION.
S6 - STEEL MEMBERS TO BE WIRE BRUSHED AND GIVEN ONE COAT OF AN APPROVED ZINC PHOSPHATE PRIMER.

01-03-13	ISSUED	[illegible]

PROPOSED DEVELOPMENT AT NO. 152 PARKRIVER CLOSE MULGOA

RAFT SLAB PLAN AND DETAILS

AB VD Design
Consulting Structural & Civil Engineers
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Phone: 9587 9192 - Mobile: 0415 275 601
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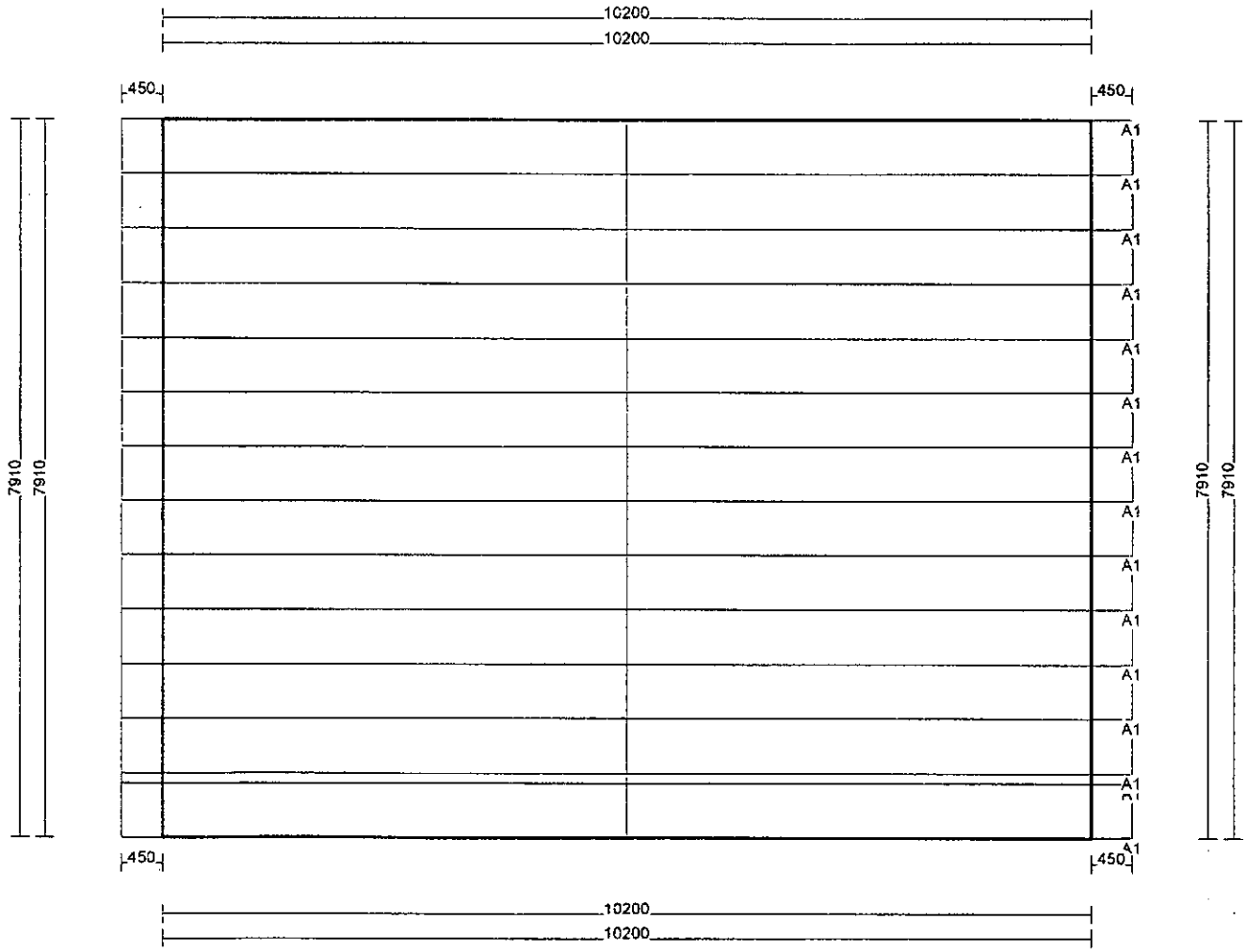
DRAWN	RN
CHECKED	[illegible], MIE Aust.
SCALE	1:100 1:20
DRG. NO.	1/4183

ABC FRAMES & TRUSSES P/L ABN: 72 14 ANNE STREET ST. MARYS NSW 2760	Customer : WINDOOR Site : ********** METRO	Gang-Nail Australia Ltd. RoofFAB 3 Emailed 29/4/13.



Roof : SHEET ROOFING Wind : Wind class N2 Ceiling : 10 mm P/B 600 bat spc	Truss Spacing : 600 mm Lower Pitch : 31.00 degrees	1442 Scale 1 : 75 Mon Apr 22 16:24:54 2013