NDTE:

IF SITE CONDITIONS VARY FROM PLAN

IF IN DOUBT CONSULT ENGINEER

NDTE:

ALL TIMBER FRAMING AND

CONNECTIONS IN ACCORDANCE

WITH AS 1684

NDTE:

BUILDER TO CHECK THE SIZE AND CONDITION OF THE EXISTING FOOTING AND IF IN DOUBT CONSULT US

NOTE:

BUILDER TO TAKE ALL THE PRECAUTIONS WHILE DIGGING NEXT TO THE EXISTING BOUNDARY WALL FOOTING

NOTE:

STEP DOWN REFER TO

ARCHITECTURAL DRAWINGS LEVELS

NDTE:

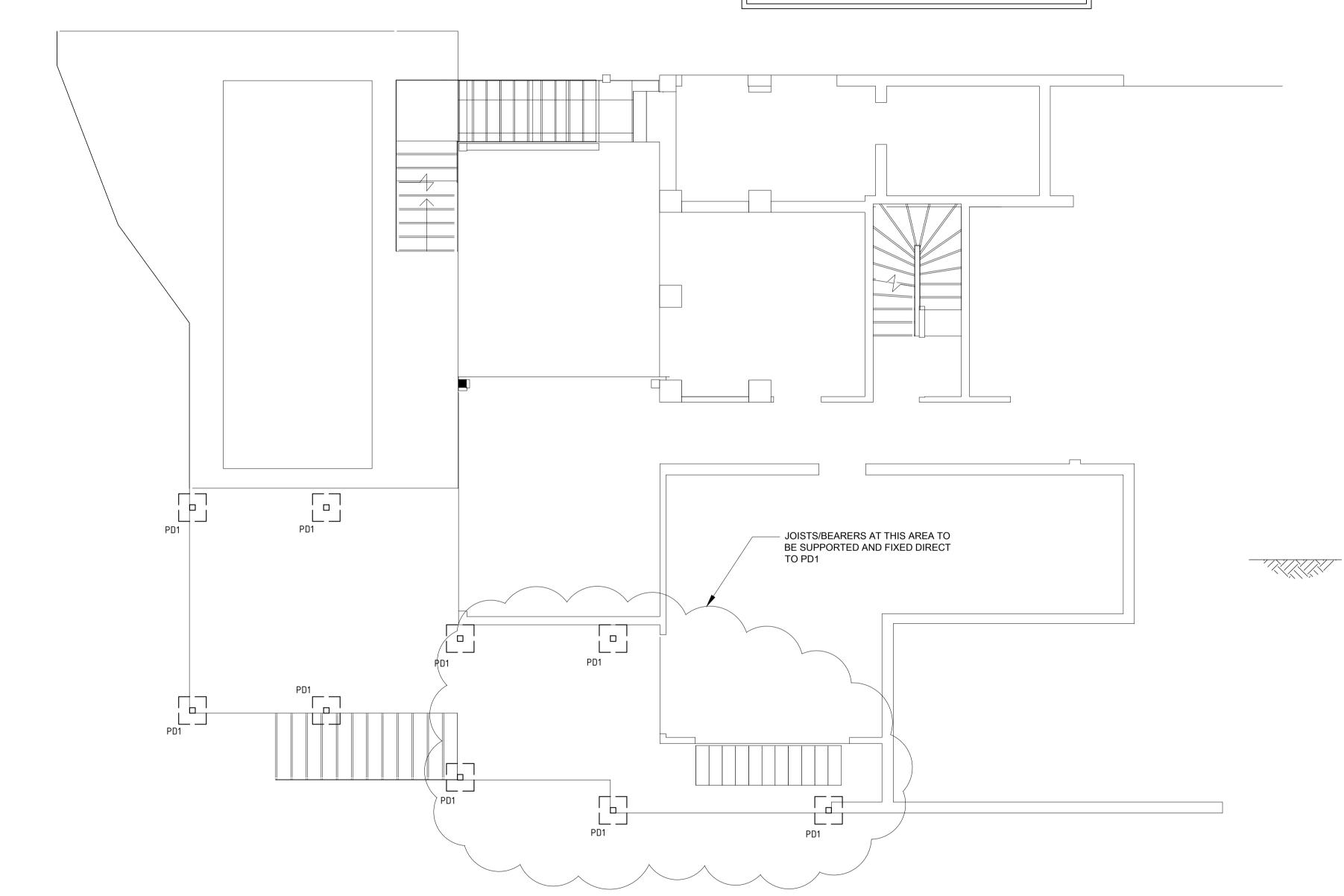
IF SOIL FOUND TO BE SALINITY AFFECTED, ALL CONCRETE (BORED PIERS, FOOTING, SLAB, ECT.) TO BE WITH MINIMUM 32MPa CONCRETE STRENGTH WITH 55mm MINIMUM CONCRETE COVER

NOTE:

GEOTECHNICAL INVESTIGATION HAS NOT BEEN CARRIED DUT, ASSUMED SOIL CLASSIFICATION IS "M", BUILDER MUST CONTACT A GEOTECHNICAL ENGINEER IF IN DOUBT BEFORE CONSTRUCTION

NOTE:

ALL DIMENSIONS, STEPDOWNS, DEEP BEAMS, F.F.L, R.L, AND REBATES TO BE CONFIRMED WITH ARCHITECTURAL DOCUMENTATION. HWS & AIRCON PADS TO BE CONFIRMED WITH CONTRACTOR, IT IS NOT THE RESPONSIBILITY OF THE ENGINEER TO VERIFY THE ABOVE.



REAR TIMBER DECK FOOTING PLAN 1:50

superdraft /

THOMAS ENGINEERS THE DESIGN EXPERT QUAKERS HILL, NSW 2763

PHONE: +61 416 611 334 EMAIL: info@thomasengineers.com.au WEB: www.thomasengineers.com.au

RACHEL & PER THORESSON **FAMILY** 

10 PLATE BASE

– 250 Kpa B/C (MIN.)

ANCHORS

LEVELLING GROUT

PD1

ROCK

**500 SQ.** 

PD1 DETAILS
SCALE = 1:20

## DRAWING TITLE

DIRECTED BY ENGINEER. IN SET PROPOSED ALTERATION AND ADDITION 12 AUSTRAL AVENUE. SCALE NUMBER ST10F5 AS SHOWN NORTH MANLY NSW DESIGN B.M <u>Biglion</u> REAR DECK FOOTING PLAN & DRAWN DETAILS U.H. 20/01/2022

GENERAL NOTES

- G.1 THESE NOTES SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTION AS ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFEREED TO THE ARCHITECT OR ENGINEER BEFORE PROCEEDING WITH THE WORK.
- DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.
- SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY ON-SITE MEASUREMENT.
- DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- G.5 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITIONS OF THE SAA CODE AND THE BY-LAWS AND ORDINANCES OF THE RELATIVE BUILDING AUTHORITY.
- G.6 EXCAVATIONS SHALL NOT BE PERMITTED WITHIN 2 METRES OF AN EXISTING STRUCTURE WITHOUT PRIOR APPROVAL OR RECOMMENDATIONS FOR SHORING OR UNDERPINNING PROVIDED BY ENGINEER.

FOUNDATIONS AND FOOTINGS

F.1 FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE INTENSITY OF BEARING PRESSURE OF 150kPa. THE BUILDER SHALL OBTAIN APPROVAL OF THE FOUNDATION MATERIAL BEFORE PLACING CONCRETE.

FOOTINGS SHALL BE PLACED UNDER WALLS AND COLUMNS UNLESS OTHERWISE NOTED.

SG.1 UNDER ALL SLABS ON GRADE, WHETHER ON CUT OR FILL, REMOVE SOFT SPOTS AND REFILL BY COMPACTING CUT SURFACES OR FILL SURFACES IN LAYERS NOT EXCEEDING 200 mm TO 95% DRY DENSITY, ENSURING MINIMUM SETTLEMENT TO SLABS.

C.1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600.

C.2 CONCRETE QUALITY SHALL BE AS TABULATED AND SHALL BE VERIFIED BY TESTS.

| ELEMENT | SLUMP | MAX.<br>SIZE<br>AGG. | CEMENT<br>TYPE | ADMIXTURE | mPa<br>CONCRETE<br>GRADE |
|---------|-------|----------------------|----------------|-----------|--------------------------|
| ALL     | 80    | 20                   | А              | NIL       | 25                       |

C.3 CLEAR CONCRETE COVERS TO REINFORCEMENT SHALL BE AS FOLLOWS UNLESS OTHERWISE SHOWN.

| CAST IN FORM   |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| ELEMENT  | CONDITION 1<br>NOT TO BE EXPOSED<br>TO WEATHER<br>GROUND WATER OR<br>FRESH WATER | CONDITION 2 TO BE EXPOSED TO WEATHER GROUND WATER OR FRESH WATER | CONDITION 3<br>CAST AGAINST<br>OTHER FORMWORK<br>OR THE GROUND |  |  |  |
| PAD FOOTINGS<br>& PILE CAPS  | -  | 65   | 75   |  |  |  |
| STRIP FOOTINGS   | -  | 50   | 65   |  |  |  |
| SORE OR CAST PIERS   | -  | 50   | 75   |  |  |  |
| COLUMNS  | 40   | 50   | 75   |  |  |  |
| WALLS, INCLUDING<br>RETAINING WALLS                                      | 20   | 30   | 65   |  |  |  |
| BEAMS  | 25   | 40   | 65   |  |  |  |
| SLABS, INCLUDING<br>JOISTS & HOLLOW<br>BLOCK CONSTRUCTION                | 20   | 30   | 65   |  |  |  |
| REINFORCEMENT<br>ADJACENT TO HOLLOW<br>BLOCKS INTEGRAL<br>WITH STRUCTURE | 5  | -  | -  |  |  |  |

 SLABS POURED OVER A MEMBRANE ON THE GROUND ARE INCLUDED AS CONDITION 2. 2. SLABS EXPOSED TO CORROSIVE VAPOURS, CORROSIVE GROUND WATER, SEA WATER OR SPRAY ARE TO HAVE REINFORCEMENT COVER AS NOTED OR NOT LESS THAN AS REQUIRED FOR CONDITION 3.

SIZES OF ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.

CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE TO THE APPROVAL OF THE ENGINEER.

BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS, IF ANY, UNO.

NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE ELEMENTS WITHOUT PRIOR APPROVAL OF THE ENGINEER.

REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY. IT IS NOT NECESSARILY SHOWN IN TRUE

SPLICES IN REINFORCEMENT MADE IN POSITIONS OTHER THAN SHOWN SHALL BE TO THE APPROVAL OF THE ENGINEER. WHERE THE LAP LENGTH IS NOT SHOWN IT SHALL BE SUFFICIENT TO DEVELOP THE FULL STRENGTH OF THE REINFORCEMENT.

WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL

C.12 ALL REINFORCING BARS SHALL COMPLY WITH AS 1302. ALL FABRIC SHALL COMPLY WITH AS 1303

PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE CONCRETE COVER TO REINFORCEMENT WITHOUT THE APPROVAL OF THE ENGINEER.

C.13 REINFORCING SYMBOLS

S GRADE 230S DEFORMED BAR C GRADE 410C COLD WORKED DEFORMED BAR Y GRADE 410R DEFORMED BAR R GRADE 230R PLAIN BAR

AND AS 1304 AND SHALL BE SUPPLIED IN FLAT SHEETS.

WELDED WIRE FABRIC F GRADE 450 N GRADE 500 DEFORMED BAR

THE NUMBER IMMEDIATELY FOLLOWING THESE SYMBOLS IS THE BAR DIAMETER IN MILLIMETRES

FABRIC REINFORCEMENT TO BE LAPPED 300 MINIMUM AT ENDS AND SIDES UNO. LAPS IN POSITION OF MAXIMUM MOMENT ARE NOT PERMITTED.

ALL REINFORCEMENT SHALL BE FULLY SUPPORTED ON INSULATED STEEL, PLASTIC OR CONCRETE CHAIRS SPACED AT 900 AND 750 CENTRES BOTH WAYS UNDER ROD AND FABRIC REINFORCEMENT RESPECTIVELY. RODS SHALL BE TIED AT ALTERNATE INTERSECTIONS.

MINIMUM STRIPPING TIMES FOR FORMWORK SHALL BE AS RECOMMENDED IN AS 1509 OR AS

DUE TO LIMITS OF PRINTING EQUIPMENT DO NOT SCALE OFF DRAWINGS FIGURED DIMENSIONS TO BE USED, ALL DIMENSIONS TO BE CHECKED ON SITE

ISSUE FOR DISCUSSION

ISSUE FOR CONSTRUCTION

DATE

29/09/2021 | SCALES 1:1

ISSUE NOTES

A1 DWG SHEET

— BEAD OF ELASTOMERIC ADHESIVE BETWEEN TEMPORARY WATERPROOF MEMBRANE OVER NOTE: NDTE: NAILS DRIVEN ALTERNATE SIDES NOTE: NOTE: IF SITE CONDITIONS VARY FROM PLAN ALL TIMBER FRAMING AND BUILDER TO CHECK THE SIZE BUILDER TO TAKE ALL THE AND CONDITION OF THE PRECAUTIONS WHILE DIGGING CONNECTIONS IN ACCORDANCE EXISTING FOOTING AND IF IN NEXT TO THE EXISTING BOUNDARY WALL FOOTING DOUBT CONSULT US IF IN DOUBT CONSULT ENGINEER WITH AS 1684 |SECTION SIZE | MINIMUM | MINIMUM BEAD OF ELASTOMERIC NAIL DIA. NAIL LENGTH ADHESIVE BETWEEN 3.06 mm | 75 mm 3.30 mm 90 mm NOTE: NOTE: NOTE: NOTE: 63 3.30 mm 100 mm IF SOIL FOUND TO BE SALINITY GEDTECHNICAL INVESTIGATION HAS NOT ALL DIMENSIONS, STEPDOWNS, DEEP STEP DOWN REFER TO AFFECTED, ALL CONCRETE (BORED PIERS, BEEN CARRIED DUT, ASSUMED SDIL BEAMS, F.F.L, R.L, AND REBATES TO BE VERTICAL NAIL LAMINATION FOOTING, SLAB, ECT.) TO BE WITH CLASSIFICATION IS "M", BUILDER MUST CONFIRMED WITH ARCHITECTURAL ARCHITECTURAL DRAWINGS LEVELS TWO PIECES MINIMUM 32MPa CONCRETE STRENGTH CONTACT A GEOTECHNICAL ENGINEER IF DOCUMENTATION, HWS & AIRCON PADS TO  $\overline{\mathsf{NTS}}$ BE CONFIRMED WITH CONTRACTOR, IT IS WITH 55mm MINIMUM CONCRETE COVER IN DOUBT BEFORE CONSTRUCTION NOT THE RESPONSIBILITY OF THE ENGINEER TO VERIFY THE ABOVE. INSTALL NEW 300x63 HYSPAN TIMBER BEAM TO REPLACE THE DEMOLISHED WALL - NEW CONCRETE FOOTING TO BE CONNECTED TO THE EXISTING CONCRETE FOOTING USING M12@400 DOWELS WITH 150mm EMBEDMENT DEPTH EACH WAY EB1 10 PLATE Ø22 HOLES FOR M20 BOLTS \_\_\_\_\_\_ \_\_\_\_\_ SIDE PLATE FOR BEAM 200 PFC & UB SCALE = 1:10 NON-LOAD BEARING WALL SCALE = 1:10 JOISTS TO BE FIXED TO THE NEW CONCRETE FOOTING IF EXISTING STEEL POST WILL BE REMOVED, NEW WALL TO BE USED TO NOTE: SUPPORT THE UPPER LEVEL ALL WELDS 6 mm FILLET EB1 BUILDER TO FIX THE NEW SC1 ON THE \_\_\_\_ LEVELLING GROUT EXISTING CONCRETE FOOTING AFTER CHECKING THE EXISTING FOOTING CONDITION, IF IN DOUBT USE 500x500x500 CONCRETE PAD FOOTING WITH SL82 MESH AT THE MIDDLE JOISTS J1@450 CTS CONCRETE FOOTING ANCHORS CONNECTION BEAM TO COLUMN SCALE = 1:10 SC1 / 8 PL CLEAT 6mm CFW TO SL82 TOP MESH REAR TIMBER DECK AND ADDITION PLAN 1:50 EB1 EB1 JOIST THICK VOID FORMER ROCK ROCK R10-600 TIES -R10-600 TIES -450 4-11TM TOP AND BOTTOM 4-11TM TOP AND BOTTOM FB1 DETAIL EB1 DETAIL 60 MIN. SCALE = 1:20 DUR DESIGN BASED DN CLASS (M) SDIL WITH 250KPa MINIMUM SDIL BEARING SCALE = 1:20 DUR DESIGN BASED DN CLASS (M) SDIL WITH 250KPa MINIMUM SDIL BEARING CAPACITY, IF NOT CONSULT US CAPACITY, IF NOT CONSULT US  $\overline{\mathsf{N.T.S}}$ ISSUE NOTES DATE THOMAS ENGINEERS 29/09/2021 | SCALES 1:1 ISSUE FOR DISCUSSION ISSUE FOR CONSTRUCTION

superdraft.

P 1300 939 740 W www.superdraft.com.au

THE DESIGN EXPERT

PHONE: +61 416 611 334

QUAKERS HILL, NSW 2763

EMAIL: info@thomasengineers.com.au

WEB: www.thomasengineers.com.au

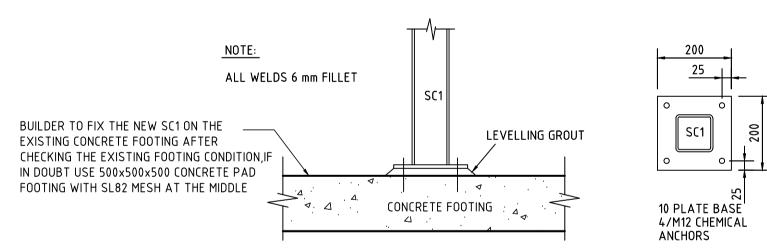
TIMBER LINTELS:

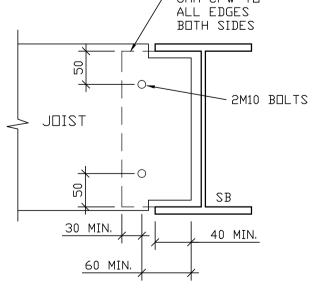
Lintels in single or upper storey load bearing wall should be provided over all openings in accordance with the following table, they should be installed in accordance with the manufacturers recommendations

TIMBER LINTELS TABLE MAXIMUM SPAN LINTEL MEMBER 150 × 63 HYSPAN 1800mm  $2/170 \times 45 HYSPAN$ 2100mm 2/ 200 x 45 HYSPAN

| MEMBER SCHEDULE |                                      | MAXIMUM CLEAR<br>Span design (m) |
|-----------------|--------------------------------------|----------------------------------|
| SC1             | 100×100 SHS WITH MAXIMUM 3.0m HEIGHT |                                  |
| SB1             | 200 PFC                              | 3,90                             |
| J1              | 200×45 SMART LVL (TREATED)           | 3,00                             |

ALTERNATIVE CONNECTION BEAM TO COLUMN





2 / M10 THRU BOLTS

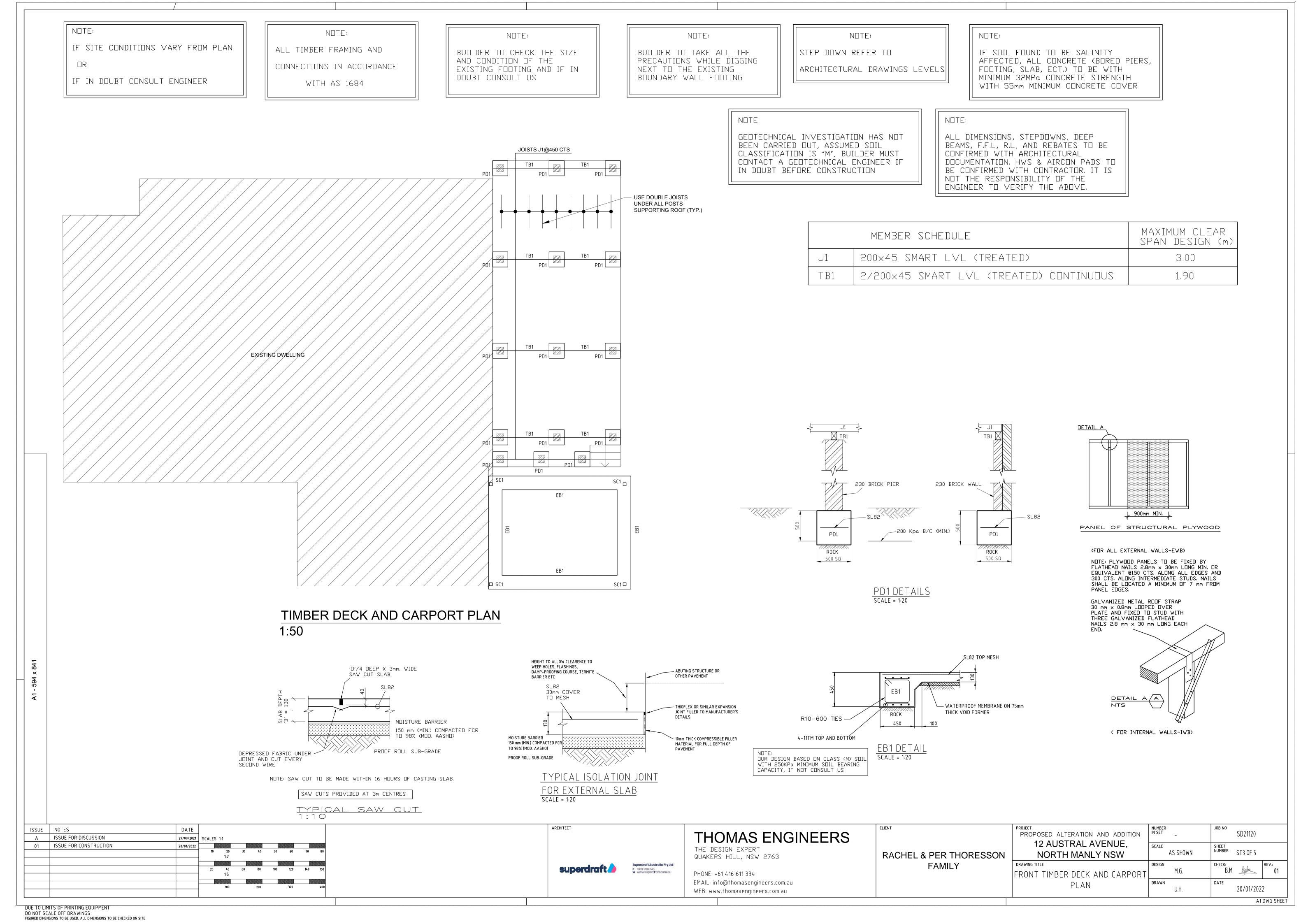
10 mm CLEAT

ALL WELDS 6 mm

TYP. TIMBER JOIST OR BEARER TO STEEL BEAM

NUMBER IN SET SD21120 PROPOSED ALTERATION AND ADDITION 12 AUSTRAL AVENUE, SHEET ST2 OF 5 AS SHOWN NORTH MANLY NSW RACHEL & PER THORESSON **FAMILY** DRAWING TITLE DESIGN B.M <u>biplou</u> REAR DECK & ADDITION PLAN 20/01/2022 U.H.

DUE TO LIMITS OF PRINTING EQUIPMENT DO NOT SCALE OFF DRAWINGS FIGURED DIMENSIONS TO BE USED, ALL DIMENSIONS TO BE CHECKED ON SITE A1 DWG SHEET



NOTE: NDTE: NOTE: NDTE: NDTE: IF SITE CONDITIONS VARY FROM PLAN ALL TIMBER FRAMING AND BUILDER TO CHECK THE SIZE STEP DOWN REFER TO BUILDER TO TAKE ALL THE PRECAUTIONS WHILE DIGGING AND CONDITION OF THE CONNECTIONS IN ACCORDANCE EXISTING FOOTING AND IF IN ARCHITECTURAL DRAWINGS LEVELS NEXT TO THE EXISTING DOUBT CONSULT US BOUNDARY WALL FOOTING IF IN DOUBT CONSULT ENGINEER WITH AS 1684 NDTE: NOTE: NDTE: IF SOIL FOUND TO BE SALINITY GEOTECHNICAL INVESTIGATION HAS NOT ALL DIMENSIONS, STEPDOWNS, DEEP AFFECTED, ALL CONCRETE (BORED PIERS, BEEN CARRIED DUT, ASSUMED SOIL BEAMS, F.F.L, R.L, AND REBATES TO BE MAXIMUM CLEAR SPAN DESIGN (m) MEMBER SCHEDULE CONFIRMED WITH ARCHITECTURAL CLASSIFICATION IS "M", BUILDER MUST FOOTING, SLAB, ECT.) TO BE WITH MINIMUM 32MPa CONCRETE STRENGTH CONTACT A GEOTECHNICAL ENGINEER IF DOCUMENTATION. HWS & AIRCON PADS TO BE CONFIRMED WITH CONTRACTOR, IT IS WITH 55mm MINIMUM CONCRETE COVER IN DOUBT BEFORE CONSTRUCTION 89×89 SHS NOT THE RESPONSIBILITY OF THE ENGINEER TO VERIFY THE ABOVE. 200 PFC 200×45 SMART LVL (TREATED) 240×63 HYSPAN 2/240×45 HYSPAN 200×63 HYSPAN 240×63 HYSPAN SIDE PLATE FOR BEAM 200 PFC & UB SCALE = 1:10 ALTERNATIVE CONNECTION BEAM TO COLUMN EXISTING DWELLING SCALE = 1:10 NOTE: ALL WELDS 6 mm FILLET BUILDER TO FIX THE NEW SC1 ON THE LEVELLING GROUT EXISTING CONCRETE FOOTING AFTER CHECKING THE EXISTING FOOTING CONDITION, IF IN DOUBT USE 500x500x500 CONCRETE PAD FOOTING WITH SL82 MESH AT THE MIDDLE CONCRETE FOOTING 10 PLATE BASE 4/M12 CHEMICAL ANCHORS SB1 TRB1 LIGHT WEIGHT ROOF CONNECTION BEAM TO COLUMN SCALE = 1:10 / 8 PL CLEAT 6mm CFW TO ALL EDGES TRB1 BOTH SIDES 10 mm CLEAT 2 / M10 THRU BOLTS TRB1 2M10 BOLTS SB1 JOIST CARPORT ROOF PLAN TYP. TIMBER JOIST OR BEARER TO STEEL BEAM N.T.S NUMBER IN SET ISSUE NOTES DATE THOMAS ENGINEERS PROPOSED ALTERATION AND ADDITION ISSUE FOR DISCUSSION 29/09/2021 SCALES 1:1 12 AUSTRAL AVENUE, ISSUE FOR CONSTRUCTION

superdraft.

P 1300 939 740 W www.superdraft.com.au

THE DESIGN EXPERT

PHONE: +61 416 611 334

QUAKERS HILL, NSW 2763

EMAIL: info@thomasengineers.com.au

WEB: www.thomasengineers.com.au

DUE TO LIMITS OF PRINTING EQUIPMENT DO NOT SCALE OFF DRAWINGS FIGURED DIMENSIONS TO BE USED, ALL DIMENSIONS TO BE CHECKED ON SITE A1 DWG SHEET

SD21120

SHEET ST4 OF 5

B.M <u>biolou</u>

20/01/2022

SCALE

DESIGN

DRAWN

NORTH MANLY NSW

CARPORT ROOF PLAN

DRAWING TITLE

RACHEL & PER THORESSON

**FAMILY** 

AS SHOWN

U.H.

4.30

3,00

4.00

3,30

3,30

1,50

SB1

------

ALL WELDS 6 mm FILLET

NOTE:

IF SITE CONDITIONS VARY FROM PLAN

IF IN DOUBT CONSULT ENGINEER

NOTE:

BUILDER TO TAKE ALL THE PRECAUTIONS WHILE DIGGING NEXT TO THE EXISTING BOUNDARY WALL FOOTING

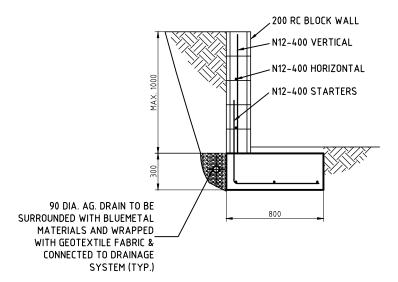
NDTE:

IF SOIL FOUND TO BE SALINITY
AFFECTED, ALL CONCRETE (BORED PIERS,
FOOTING, SLAB, ECT.) TO BE WITH
MINIMUM 32MPa CONCRETE STRENGTH
WITH 55mm MINIMUM CONCRETE COVER

NDTE:

GEDTECHNICAL INVESTIGATION HAS NOT BEEN CARRIED DUT, ASSUMED SOIL CLASSIFICATION IS "M", BUILDER MUST CONTACT A GEDTECHNICAL ENGINEER IF IN DOUBT BEFORE CONSTRUCTION NOTE:

ALL DIMENSIONS, STEPDOWNS, DEEP BEAMS, F.F.L, R.L, AND REBATES TO BE CONFIRMED WITH ARCHITECTURAL DOCUMENTATION. HWS & AIRCON PADS TO BE CONFIRMED WITH CONTRACTOR. IT IS NOT THE RESPONSIBILITY OF THE ENGINEER TO VERIFY THE ABOVE.



TYPICAL BLOCK RETAINING WALL DETAILS

| ISSUE | NOTES                  | DATE       |            |           |    |     |     |     |     |     |
|-------|------------------------|------------|------------|-----------|----|-----|-----|-----|-----|-----|
| Α     | ISSUE FOR DISCUSSION   | 29/09/2021 | SCALES 1:1 |           |    |     |     |     |     |     |
| 01    | ISSUE FOR CONSTRUCTION | 20/01/2022 |            |           |    |     |     |     |     |     |
|       |                        |            |            | 20<br>1:2 | 30 | 40  | 50  | 60  | 70  | 80  |
|       |                        |            | -          | ""        | -  |     | -   |     | _   |     |
|       |                        |            | 20         | 40        | 60 | 80  | 100 | 120 | 140 | 160 |
|       |                        |            |            | 1:5       |    |     |     |     |     |     |
|       |                        |            | _          | 100       |    | 200 |     | 300 |     | 400 |
|       |                        |            | 1          |           |    |     |     |     |     |     |

superdraft

THOMAS ENGINEERS
THE DESIGN EXPERT
QUAKERS HILL, NSW 2763

PHONE: +61 416 611 334 EMAIL: info@thomasengineers.com.au WEB: www.thomasengineers.com.au RACHEL & PER THORESSON FAMILY | NUMBER | NOB NO | S021120 | S02112

A3 DWG SHEET

DUE TO LIMITS OF PRINTING EQUIPMENT

DO NOT SCALE OFF DRAWINGS

ALL RESERVED ON SITE

A2-