

CONSTRUCTION NOTES

- GENERAL
- G1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER CONSULTANTS 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 ENGINEER FOR DECISION BEFORE PROCEEDING WITH THE WORK.
- G2 DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.
- G3 SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE BUILDER.
- G4 DURING CONSTRUCTION, THE STRUCTURE SHALL BE MAINTAINED IN STA-BLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- G5 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SAA CODES AND BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITY.
- G6 ANY CONFLICT BETWEEN THESE NOTES, THE SPECIFICATIONS OR THE DRAWINGS SHALL BE RESOLVED BY THE ENGINEER.

FOUNDATIONS

- F1 FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING INTENSITY OF 100 KPA ON A UNIFORM VIRGIN MATERIALS
- F2 FOUNDATION MATERIAL SHALL BE APPROVED BY THE ENGINEER FOR THIS PRESSURE BEFORE PLACING REINFORCEMENT OR CONCRETE.
- F3 ALL EXCAVATIONS SHALL BE FINISHED CLEAN AND HORIZONTAL.

CONCRETE

- C1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS.
- C2 CONCRETE QUALITY:

STANDARD TO AS 3600--CURRENT EDITION WITH AMENDMENTS				
ELEMENT	FC(28DAYS)	SLUMP	MAX SIZE AGG	ADMIXTURES
PIERS	25MPa	80	20	—
GROUND	25MPa	80	20	—
FIRST F.	32MPa	80	20	—

- C3 CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

CAST AGAINST FORMS COMPLYING WITH AS 1509				
ELEMENT	IN SHELTERED LOCATIONS	EXPOSED TO GROUND OR WEATHER	CAST AGAINST OTHER FORMWORK OR THE GROUND	
COLUMN&PEDESTALS	40	50	75	
BEAMS	25	40	65	
FOOTINGS	—	65	75	
SLABS & WALLS	25	30	65	

- C4 ALL CONCRETE PLACED SHALL BE VIBRATED AND COMPACTED USING AN APPROVED VIBRATOR AND TECHNIQUE.
- C5 SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- C6 CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF ENGINEER.
- C7 NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- C8 REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY. IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- C9 SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITION SHOWN. THE WRITTEN APPROVAL OF THE ENGINEER SHALL BE OBTAINED FOR ANY OTHER SPLICE IN ACCORDANCE WITH THE REQUIREMENTS OF
- C10 WELDING REINFORCEMENT WILL BE PERMITTED ONLY AFTER THE WRITTEN APPROVAL OF THE ENGINEER
- C11 REINFORCEMENT SYMBOLS:

REINFORCEMENT TYPE	GRADE		MINIMUM YIELD STRENGTH(fsy)	
	250	400Y	450W	450F
(a)PLAIN BARS	R			
(b)DEFORMED BARS TO AS 1302		Y	W	
STEEL WIRE PLAIN AND DEFORMED TO AS 1303				
WELDED WIRE FABRIC TO AS 1304				F

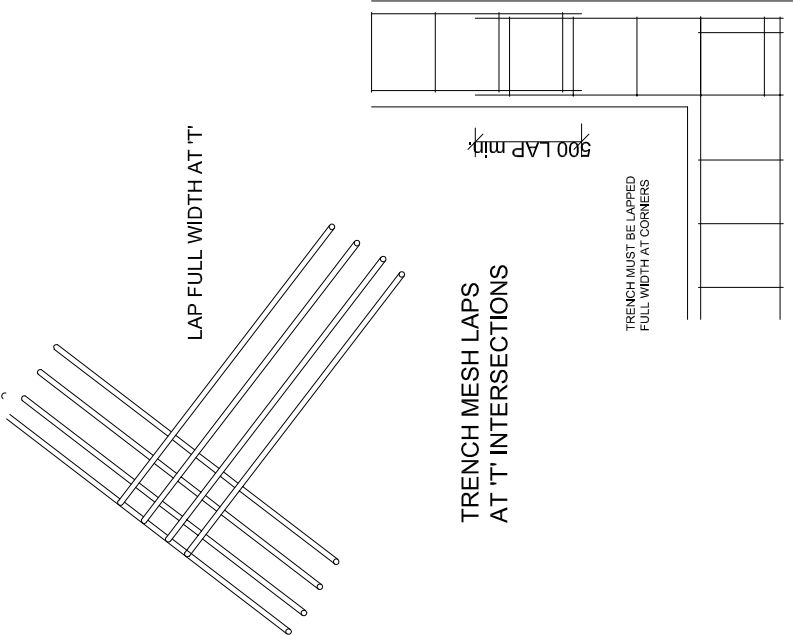
THE OWNER ATTENTION IS DRAWN TO APPENDIX 'A' OF AS 2870 'PERFORMANCE REQUIREMENTS FOUNDATION MAINTENANCE.' THAT WATER HAVE TO BE DRAINED AWAY FROM THE FOUNDATION.

- C12 FABRIC TO BE IN ACCORDANCE WITH AS 1304.
- C13 THE CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS BEFORE THE COMPLETION OF THE REINFORCEMENT, TWO HOURS FOR THE ENGINEER'S INSPECTION.
- C14 CONCRETE SHALL NOT BE ORDERED UNTIL REINFORCEMENT IS APPROVED BY THE ENGINEER.
- C15 THE CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS BEFORE POURING OF CONCRETE.
- C16 CONCRETE CURING AND STRIPPING TO BE IN ACCORDANCE WITH THE SAA CODES. CONCRETE TO BE CURED A MINIMUM OF 7 DAYS AFTER POURING.
- C17 FORM WORK TO BEAMS AND SLABS SPANNING GREATER THAN 5m SHALL BE PRE CAMBERED UPWARDS BY 1/500 OF CLEAR SPAN IN EACH SPAN UNLESS NOTED DIFFERENTLY ON THE DRAWINGS
- REINFORCEMENT
- R1 ALL UNSUPPORTED BARS SHALL BE TIED IN TRANSVERSE DIRECTION Y12 AT 400 CTS.
- R2 MINIMUM LAP TO FABRIC TO CONSIST OF TWO CROSS WIRES PLUS 25mm AND EXTEND 90mm WITH A CROSS WIRE ONTO WALLS UNLESS NOTED OTHERWISE.
- R3 TRENCH MESH — 600mm MINIMUM LAP UNLESS NOTED OTHERWISE.

BRICKWORK

- B1 SLIP JOINTS TO BE USED ON ALL LOAD MASONRY WALLS USING 2 LAYERS OF GALVANIZED FLAT STEEL WITH GRAPHITE GREASE SANDWICHED BETWEEN.
- B2 WALLS SHOWN ON STRUCTURAL DRAWINGS ARE LOAD BEARINGS WALLS. NON LOAD BEARINGS SHALL BE SEPARATED FROM THE SLABS IN AN APPROVED MANNER.
- B3 NO BRICK WORK WHICH IS SUPPORTED BY THE SLAB SHALL BE ERRECTED UNTIL FORM WORK HAS BEEN REMOVED.
- B4 BRICK MORTAR TO 1:1:6 PROPORTIONS BY VOLUME CEMENT, LIME AND SAND.
- B5 BRICK STRENGTH FOR LOAD BEARING BRICKWORK TO BE A MINIMUM OF C=20MPa.
- B6 BLOCK WORK QUALITY: MPA
BLOCK WORK STRENGTH—
F'c(28days)
SLUMP
MAX. SIZE AGGREGATE 20mm

ALL TIMBER WORK SHOULD BE DONE IN ACCORDANCE TO BCA. AS. 1684-1992. AND TO LOCAL COUNCIL REQUIREMENTS.

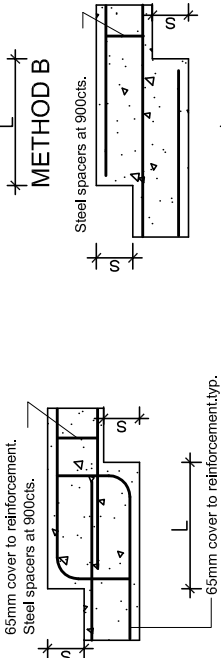


TRENCH MESH LAPS AT 'T' INTERSECTIONS

PLAN OF STRIP FOOTING AT CORNER

Where step "s" does not exceed 100mm;
* length "L" shall be a minimum of 600.
* reinforcement to be arranged as shown in method A.

Where step "s" does exceed 100mm;
* step "s" shall not exceed 600mm.
* length "L" shall be a minimum of 600mm.
* reinforcement to be arranged as shown in either methods B, C, D.



METHOD D

REINFORCED CONCRETE STRIP FOOTING STEPPINGS AND REINFORCEMENT

BRICKWORK NOTES

Brickwork to be in accordance with AS3700.
All bricks to have a minimum compressive strength of 20MPa
Brickwork mortar to be a mix of 1 cement, 1 lime, 4.5 sand
Brick walls to be provided with vertical control joints at 7 metre max. cts.

Two bed joints above and below all openings to have brick reinforcement and to extend 600 each side of opening.

All clay bricks shall be exposed to ambient conditions for a minimum of 3 months before use.

Maximum 5 year unrestrained expansion of clay bricks shall be 0.8mm per metre.

Clay bricks shall not be laid over floor slab for a minimum of 10 days after concreting the slab.

Brickwork articulation shall be in accordance with the requirements of CN9 Articulated Walling (Cement & Concrete association Aust)

NOTES REGARDING SUBTERRANEAN TERMITE PROTECTION

- All concrete to be 25MPa. Concrete to be mechanically vibrated during pouring keep slab continuously wet for 7 days min. Plastic or Wax sprays may be used.
- 75mm clear smooth concrete to be exposed around entire perimeter of slab.
Or,
3. Crushed granite or Stainless steel mesh to be used around entire perimeter including all pipe penetrations in accordance with the manufacturers specifications.
- Inspections of the residence and immediate surrounds to be carried out by a qualified pest expert on an annual basis.
- Any future cracking occurring in the slab is to be assessed by a qualified pest expert and where directed be sealed by Epoxy injection.
- Site maintenance is the responsibility of the Home Owner. All recommendations outlined by the C.S.I.R.O. in sheet 10—91 to be carried out.
- All works to be in accordance with AS 3660.1 1995.

ALL FOOTINGS TO BEAR ON A UNIFORM SOIL WITH SAFE LOAD FACTOR 100 KPA

SOIL CLASSIFICATION CLASS 'M" ACCORDING TO AS 2870-1988

IF DUE TO UNEVEN BEARING, THE ENGINEER SHOULD BE NOTIFIED.

ALL TOP SOIL CONTAINING CRASS ROOTS SHOULD BE REMOVED FROM THE AREA FILLING WHERE REQUIRED SHALL BE NON REACTIVE GRANULAR MATERIAL, WELL WATERED AND COMPACTED IN 200 LAYERS MAX., IN ACCORDANCE WITH AS2870.

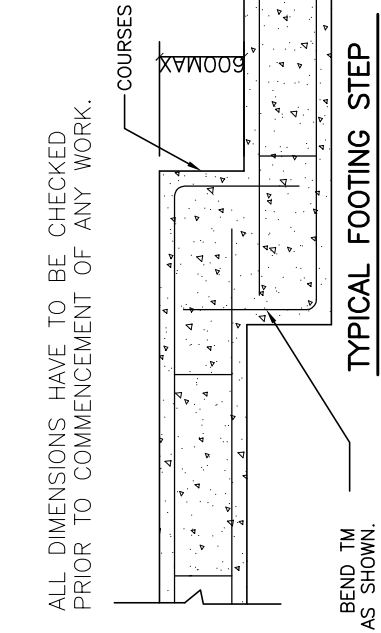
NOTES

IT IS THE BUILDER RESPONSIBILITIES TO CHECK WITH THE LOCAL COUNCIL FOR THE APPROVED METHODS OF TERMITE PROTECTION FOR THE SUSPENDED SLAB AND SLAB ON GROUND INCLUDING TIMBER FLOOR.



TYPICAL FABRIC LAPS

NOTE THAT FABRIC SHEETS SHALL BE LAP-SPLICED SO THAT THE TWO OUTERMOST TRANSVERSE WIRES OF ONE SHEET OVERLAP ATLEAST THE TWO OUTERMOST WIRES OF THE OTHER SHEET.



COMPACTED INERT MATERIALS TO U/SIDE OF SLAB TO BE COMPACTED IN LAYERS NOT EXCEEDING 200mm THICK.

TITLE: SPECIFICATIONS

PROPOSED CARPORT

12 EDWARD STREET, NARRAWEENA

REMARKS

- NOTES:
- This drawing is copyright and the property of GHA Engineering.
 - Larger scale drawings and written dimensions take preference.
 - Do not scale from drawings, all dimensions to be verified on site before commencement of work.
 - All discrepancies to be brought to the attention of the author.

REVISIONS

Date	NOTE	REV.			
Nov 18	ISSUED FOR DA/CC	A			

GHA ENGINEERING

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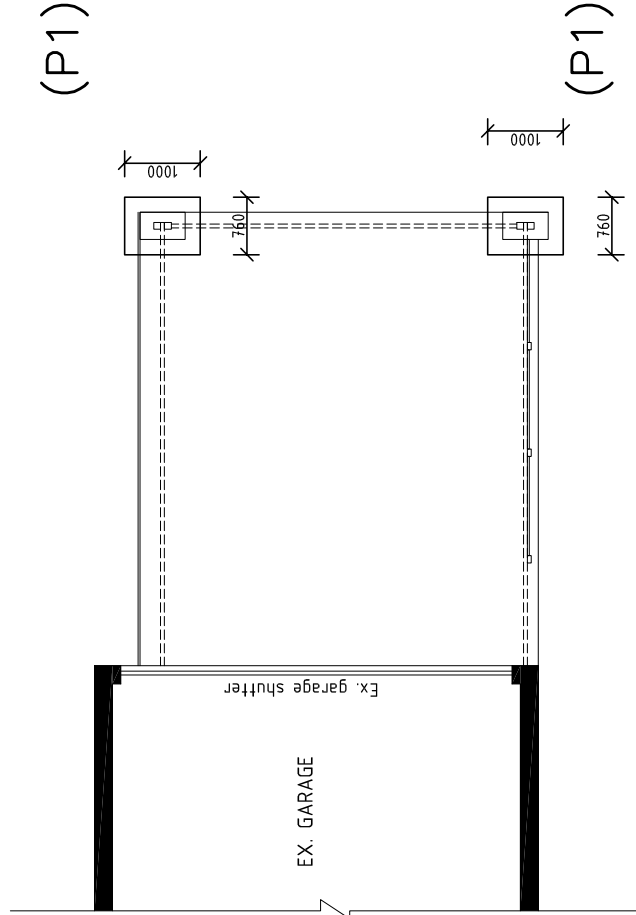
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18191371-A

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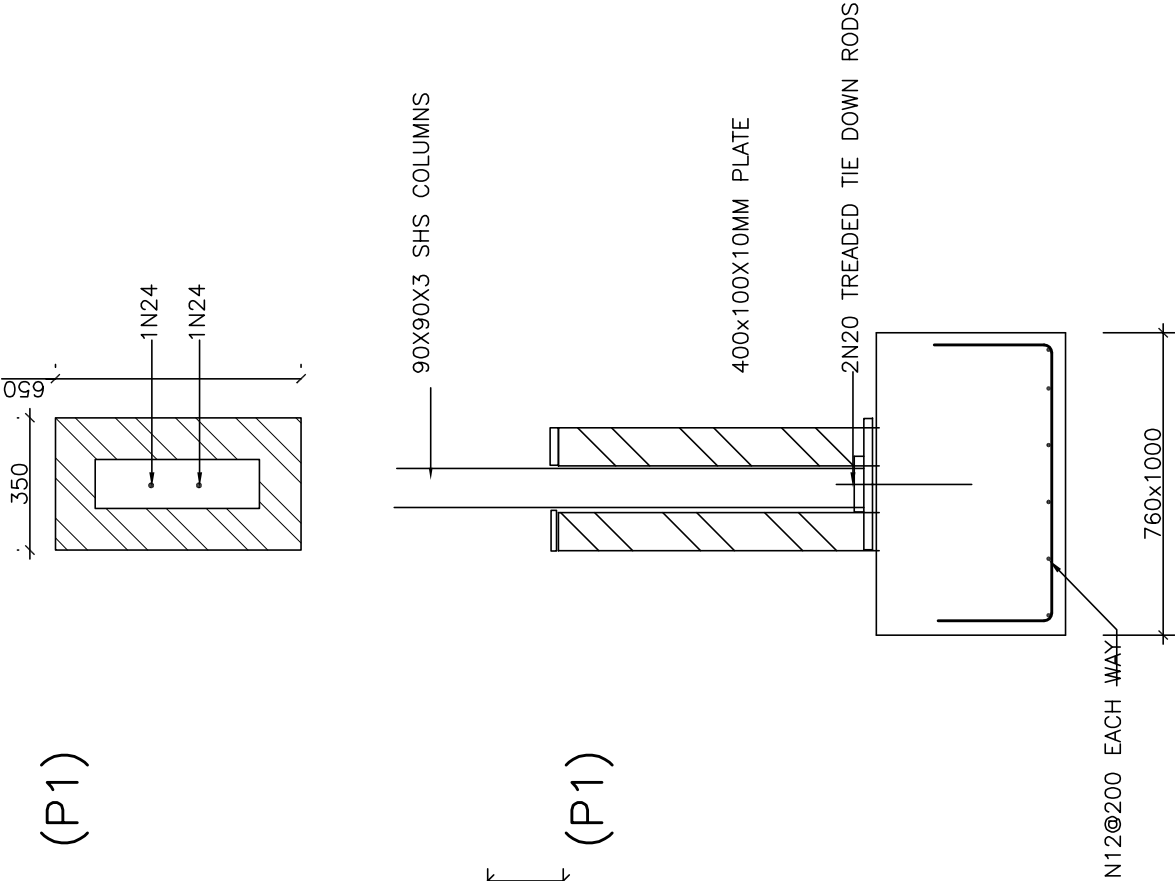
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DRAWN BY: G. AZZI

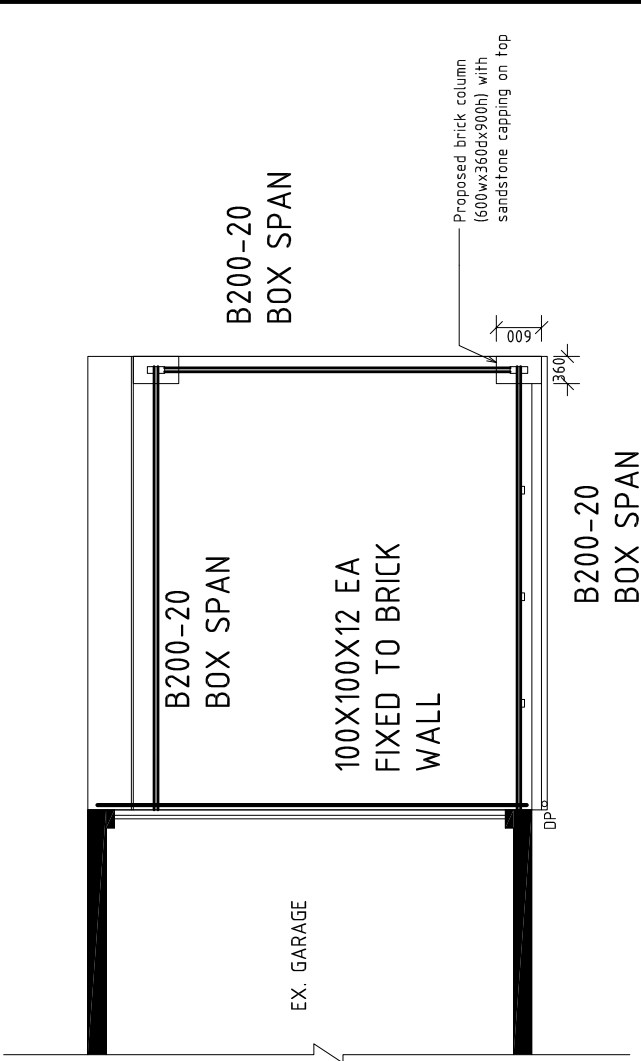
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NOV 2018



PAD FOOTING PLAN
SCALE 1:100



TYPICAL PAD FOOTING (P1)
SCALE 1:20



ROOF BEAM LAYOUT
SCALE 1:100

REVISIONS				REMARKS		TITLE: SPECIFICATIONS		GHA ENGINEERING CIVIL & STRUCTURAL CONSULTANTS			Project No.: 18191371-A	DRAWN BY.: G. AZZI
						PROPOSED CARPORT		CIVIL & STRUCTURAL CONSULTANTS			Scale: AS SHOWN	CLIENT
								Mobile :04133 25 103 FAX: 98966524 589 b Merrylands Road Merrylands NSW 2160				Drawing No.:
NOV 18	ISSUED FOR DA/CC	A						GEORGE H. AZZI B.E. (CIVIL), MIEAust.			Date:	2/2
Date	NOTE	REV.						NOV 2018				