

CONSTRUCTION NOTES

- G1. These drawings are to be read in conjunction with Architectural and other consultants drawings and
- specifications. Any discrepancies are to be referred to the Architect before proceeding with the work. G2. Dimensions shall not be obtained by scaling the structural details and all dimensions to be verified
- by the Builder prior to commencement of the work.
- G3. Refer to architectural drawings for slab levels and architectural details. G4. During construction the Builder is responsible for maintaining the structure in a stable condition
- without overstressing any part.
- G5. Comply with AS 3660 protection of building from subterranean termites. G6. All workmanship and materials to be in accordance with the Building Code of Australia.

STRUCTURAL STEELWORK NOTES

- S1. All workmanship and materials to be in accordance with AS 4100, AS 1554 and for tubular members
- S2. Unless otherwise noted all structural steel to be Fy=250MPa in accordance with AS 1204, tubular
- AS 1163, black bolts AS 1111 and high tension bolts AS 1252. S3. All welds to be 6mm continuous fillet unless noted otherwise. Welds in accordance with AS 1554.
- S4. All structural steelwork bearing on masonry to be bedded on 25mm cement grout pad. S5. Except where concrete encased or where noted otherwise, all structural steelwork to be surface cleaned
- to remove all loose mill scale, rust, dirt, grease, etc., and given one shop coat of red-oxide zinc-S6. Two copies of checked workshop drawings to be submitted to the Engineer and approval obtained in
 - writing before fabrication is commenced. Approval covers structural sufficiency of joints and members and not dimensioning accuracy.

C1. All workmanship and materials to be in accordance with AS 3600 as amended, except where varied by contract documents.

C2. Concrete quality to be accordance with the following table UNLESS NOTED OTHERWISE:

ELEMENT	SLUMP	MAX SIZE AGGREGATE	CEMENT TYPE	AS 3600 F'c MPa	ADMIXTURE	
PIERS	80	20	Α	20	_	
FOOTINGS	80	20	A	20	_	
SLAB ON GROUND	80	20	A	25	_	
COLUMNS	80	20	A	_	_	
WALLS	80	20	A	_	_	
SUSPENDED SLABS	80	20	A	32	_	
STAIRS	80	20	A	_	_	
BLOCKWORK CORES	230	10	A	> 12	_	

C3. Clear concrete cover to reinforcement shall be as follows except where increased cover is required to satisfy fire rating or UNLESS NOTED OTHERWISE

REQUIRED CLEAR CONCRETE COVER (mm) RATIONALISED FROM AS 3600									
INTERNAL			EXTERNAL			IN CONTACT WITH GROUND			
	Wet areas		Coastal	Inland	Inland	Damp	No	Below	Agressive
	and	Other	< 1km	> 1 < 50km	> 50km	proof	Membrane	water	ground
	Industrial			Or Indust.	Non Indust	Membrane		Table	Water
FOOTINGS	_	-	_	_	ı	40	50	75	100
PEDESTALS & COL	40	40	50	40	40	40	50	65	75
SLABS	40	20	45	40	30	30	40	60	65
BEAMS	40	25	50	40	40	40	50	65	75
WALLS	40	20	50	40	40	40	50	65	75

- C4. Sizes of concrete elements do not include thickness of applied finishes.
- C5. Construction joints where not shown shall be located to the approval of the Engineer. C6. Beam depths are written first and include slab thickness (if any).
- C7. No holes or chases other than those shown on the structural drawings shall be made in the concrete members without the prior approval of the Engineer.
- C8. All concrete shall be compacted using high frequency vibrators.
- C9. All concrete surfaces shall be cured by maintaining them constantly damp or wet for a minimum of 7 days. Curing to commence immediately after pouring.
- C10. Reinforcement is represented diagrammatically, it is not necessarily shown in true projection. C11. Splices in reinforcement shall be made only in the positions shown. The written approval of the Engineer shall be obtained for any other splices. Reinforcment fabric to have end and side laps of 250 min
- C12. All reinforcement shall be supported on steel chairs to maintain it at the correct levels, in no case shall the spacing of chairs exceed 800. Plastic bar chairs only shall be used for exposure classification
- C13. Unless otherwise shown concrete encasing to structural steelwork shall be 50 minimum thickness reinforced with FGW41. Fabric shall have 25 cover and be lapped 250 at all splices.
- C14. Separate all concrete slab and beam surfaces from contact with masonry with two layers of "Malthoid"
- or equivalent C15. Reinforcement symbols are as follow:
 - R-Grade 230 plain bar in accordance with AS 1302. N-Grade 410 Tempcore deformed bar in accordance with AS 1302.
 - SL-Hard drawn wire fabric in accordance with AS 1304.
- The number following the reinforcement bar symbol is the number of millimetres in the bar diameter.
- C16. Formwork workmanship and materials shall be in accordance with the S.A.A. Formwork Code AS 1509. C17. The Engineer is to be given 48 hours notice of all impending pours.
- BRICKWORK NOTES

B1. All workmanship and materials to be in accordance with AS 3700, ASA 1123, BCA 1990 and AS 1316 as amended, except where varied by contract documents.

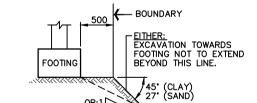
B2. Bricks to have minimum Compressive Strength of 23MPa and to be laid in 1 : 4 1/2 mortar UNLESS NOTED OTHERWISE

BLOCKWORK NOTES

- BL1. All workmanship and materials to be in accordance with AS 3700, AS 1500.
- BL2. All structural blocks for retaining walls to be grade 12 double—U blocks. BL3. Blocks to be fully bedded using 1: 1/4: 3 (cement: lime: fine aggregate by volume) mortar.
- BL4. Blocks to be provided with openings in base for inspection and cleaning. BL5. Block cores to be cleaned and filled with grout having a slump of 230 \pm 30mm, 10mm aggregate and
- a F'c of not less than 12 MPa. BL6. Block control joints 16mm wide to be provided at 8 metre centres maximum U.O.N. Dowels, R20-400 c/c,
- 600 long, one end greased and wrapped to be placed across control joints.

FOUNDATIONS F1. Foundation material SAND to be consistent with uniform moisture content throughout, and

- have a minimum safe bearing capacity of 100kPa. F2. All residentail slabs & footings to comply with AS 2870 unless detailed otherwise.
- F3. Excavation shall not extend below a line dipping at 45° and away
- from the nearest underside cornerof any existing or proposed footings when excavating in clay, and 30° when excavating in sand or a 1V: 2H slope



Α	01.07.23	•	C.W.
REVISION	DATE		BY

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PROPOSED ALTRATIONS AND ADDITIONS TO RESIDENCE AT 166 PITTWATER ROAD, MANLY FOR B & C LAWS

PLANS

APPROVED

1/100,50,20 C.W.