



AX	N16-400 VERTICAL
H = 1800 MAX	N12-400 HORIZONTAL
Η =	LAP 600 & TIE FIX AT CLEANOUT BLOCK FOR 60 COVER
	CLEANOUT BLOCK
<u>_</u>	
	052 007 1N12 250
	SECTION
	SCALE 1:20

Н	В	A – BAR
1000	900	N12 - 400
1400	1050	N16 – 400
1800	1300	N16 – 400

ABBRE	VIATIONS		REVISION
U.O.N.	UNLESS OTHERWISE NOTED	:	
Т	ТОР	· ·	
В	ВОТТОМ	:	
H.D.	HOT DIPPED	:	
GALV.	GALVANISED		
MIN.	MINIMUM		
c/c	CENTRE TO CENTRE		
SQ.	SQUARE	!	i
TYP.	TYPICAL		

## CONSTRUCTION NOTES

- GENERAL
- 1. These drawings shall be read in conjunction with all 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 Supervising Officer for decision before proceeding with the work.
- 2. Dimensions shall not be obtained by scaling the structural drawings.
- 3. All dimensions shall be verified on site by the Contractor who shall be responsible for their correctness. 4. The contractor shall be responsible for maintaining the structure and neighbouring

structures in a safe and stable condition during construction. No part shall be overstressed.

5. All workmanship and materials shall be in accordance with the requirements of the current SAA Codes and the By-Laws and Ordinances of the relevant Government Authority. FOUNDATIONS

1. Excavation shall be taken into Firm Natural Ground the allowable bearing pressure on this material is assumed to be 150  $\,$  kPa. 2. Foundation material shall be approved immediately before placing concrete.

3. Site Classification to AS 2870 is Class S Site

CONCRETE

1. All workmanship and materials shall be in accordance with AS 3600, current edition with amendments. 2. Concrete quality: All cement shale be Type A Normal Portland Cement.

Element	Slump mm	Max. Size Agg. mm	f'c MPa	Special Requirements
FOOTINGS	80	20	25	-
Strength shall be ver	l ified by	plant co	l ontrol te	l estina.

Strength shall be verified by plant control testing. 3. Clear concrete cover to reinforcement including ties and stirrups shall as follows unless shown otherwise.

	osure Classifica	ation	
Element	A1 Sheltered locations	B1 External locations over 1km from saltwater shoreline	B2 External locations within 1km of saltwater shoreline
Strip footings	-	50	50
Columns and piers	20	40	50
Beams	20	40	45
Slabs and walls	20	40	45

4. Reinforcement symbols: N denotes Grade 500 deformed normal ductility bar to AS 4671.

R denotes Grade 250 plain round normal ductility bar to AS 4671.

SL denotes Grade 500 low ductility square welded mesh to AS 4671. RL denotes Grade 500 low ductility rectangular welded mesh to AS 4671.

- denotes direction of main bars of rectangular fabric (main bars down for bottom reinforcement, main bars up for top reinforcement).
- denotes square fabric.
- denotes extent of reinforcement.
- 5. All unsupported bars shall be tied in the transverse direction to N12-200 unless otherwise noted.
- 6. Reinforcement is shown diagramatically and is not necessarily shown in the true projection.
- 7. Splices in the reinforcement shall be made only in the positions shown. The written approval of the Supervising Officer shall be obtained for any other splices. Where the lap length is not shown it shall be sufficient to develop the full strength of the reinforcement. 8. Welding of reinforcement will not be permitted unless shown on the structural drawings.

		Lat	o 2 wires
	•	•	•
9.	Fabric lap detail:		<b>4</b> 25 Min.
δ.	welding of reinforcement	will not be permitted unless	snown on the structural dr

- 10. Slab reinforcement shall extend at least 65 onto masonry support walls unless shown otherwise.
- 11. Concrete sizes shown are minimum and no reductions by ducts, pipes, etc. shall be made without the approval of the Supervising Officer. Sizes do not include thickness of applied finishes.
- 12. Beam depths are written first and do not include slab thickness.
- 13. Pipes or conduits shall not be placed within the concrete cover to reinforcement without the approval of the Supervising Officer.
- 14. No holes or chases other than those shown on the structural drawings shall be made in concrete members without the prior approval of the Supervising Officer.
- 15. Construction joints where not shown shall be located to the approval of the Supervising Officer.
- 16. The contractor shall notify the Engineer 24 hours before pouring concrete.
- 17. The concrete shall be compacted using high frequency vibrators. 18. Columns, piers, and pedestals shall be placed 24 hours (min.) before concrete
- in slabs or beams over. 19. Curing of all concrete surfaces shall commence immediately after surfaces are finished as specified.
- BRICK AND CONCRETE BLOCK MASONRY
- 1. All workmanship and materials shall be in accordance with AS 3700. 2. Two layers of approved metal based slip joint material shall be laid under all slabs
- where they bear on brickwork. 3. Walls shown on structural drawings are load bearing walls. Non load bearing walls under slabs shall be separated from the concrete by a minimum of 10mm
- thick compressible material. 4. No brickwork which is supported by the slab shall be erected until formwork has been removed.
- 5. Brick mortar to be 1:1:6 proportions by volume of cement, lime and sand. 6. Brick strength of load bearing brickwork to be a minimum of f'uc = 14 Mpa. REINFORCED CONCRETE BLOCK MASONRY
- 1. All concrete masonry units shall conform to the requirements of AS 2733. The design strength of concrete masonry shall be:

2. The design strength	of concrete masonry sh	all be:
	Strength	Mortar Mix
Element	Grade of Units	Cement, Lime ,Sand
RETAINING WALLS	15 MPa (BLOCKS)	1:0.1:3

	in placing concrete units nave fully bedded face s	shall comply with AS 3700	

Clean out holes shall be provided at the base of all reinforced cores. 5. Unless noted otherwise the cores of all concrete masonry units shall be filled with concrete having a characteristic strength at 28 days (f'c) of 20 MPa. and a slump of 180mm to 230mm when being placed. the concrete filling shall

be thoroughly compacted. 6. Max size of course aggregate in concrete used to fill cores shall be 10mm unless shown otherwise. STRUCTURAL STEELWORK

- 1. All workmanship and materials shall be in accordance with AS 4100 and AS 1554 except where varied by the contract documents.
- 2. Three (3) copies of all shop details shall be submitted to the engineer for approval of structural sufficiency before fabrication.
- 3. All welds shall be 6mm continuous fillet, all bolts Ø20mm, all gussets plates 10mm thick, unless noted otherwise on the drawing. 4. Concrete encased steelwork shall be wrapped with 3mm wire at 100mm centres and
- shall have a minimum 50 cover of concrete. 5. Steel beams and trusses with span greater than 6m shall be fabricated with an
- upwards precamber of 1/500 span in each span unless noted otherwise on the drawings. 6. Structural steelwork is to be wire brushed to remove rust and loose mill scale
- and coated with one coat of approved primed unless noted otherwise on the drawings.
- 7. All steelwork cast into brickwork is to be hot dipped galvanised. TIMBER
- 1. Timber construction is to be in accordance with AS 1720 and the Timber Framing Code
- AS 1684.





TITLE

DRAWN

JBK

-IMPERVIOUS LAYER

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