

Ø450 R.C.P.

SECTION

SCALE 1:20

THE FOLLOWING STAGES:

(A) INSTALLATION OF SILT AND SEDIMENT CONTROL DEVICES.

ALL STEEL ELEMENTS TO BE STAINLESS GRADE 316 OR EQUIVALENT (MARINE GRADE)

BENEATH ALL KERB & GUTTER AND PRAM RAMPS PLACE & COMPACT DGB20 IN 150 LAYERS TO

(B) SUBGRADE LEVEL / BASECOURSE LEVEL

(D) PRIOR TO BACKFILLING OF PIPELINES

(G) SEALING ROAD PAVEMENT

(E) PRIOR TO POURING OF KERB & GUTTER (F) PRIOR TO POURING VEHICLE CROSSING

98% STANDARD DENSITY AS NECESSARY

(C) PRIOR TO POURING OF STORMWATER GULLY PITS

CONSTRUCTION NOTES

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

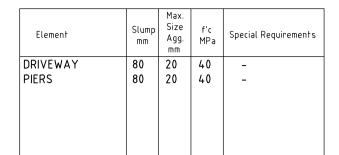
4. The contractor shall be responsible for maintaining the structure and neighbouring structures in a safe and stable condition during construction. No part shall be over-

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 Excavation shall be taken into ROCK

the allowable bearing pressure on this material is assumed to be 1000 kPa. 2. Foundation material shall be approved immediately before placing concrete.

CONCRETE 1. All workmanship and materials shall be in accordance with AS 3600, current



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

shown otherwise.

	Exposure Classification		
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

Note that slabs placed over a membrane on ground are included as A1. 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

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. Fabric lap detail:

—Lap 2 wires

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.

The concrete shall be compacted using high frequency vibrator 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

4. No brickwork which is supported by the slab shall be erected until formwork

has been removed. Brick mortar to be proportions by volume of cement, lime and sand.

6. Brick strength of load bearing brickwork to be a minimum of f'uc = Mpa.

1. All concrete masonry units shall conform to the requirements of AS 2733. The design strength of concrete masonry shall be:

Mortar Mix Grade of Units Cement, Lime ,Sand

3. Workmanship involved in placing concrete units shall comply with AS 3700

and all units shall be have fully bedded face shells and cross walls. 4. 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.

1. Timber construction is to be in accordance with AS 1720 and the Timber Framing Code

2. Timber stress grade shall be F7 unless noted otherwise.

ISSUE DATE : REVISION SUB-DIVISION LONG-SECTIONS & DETAILS 2A WEST STREET, BALGOWLAH **TAYLOR** DRAWN : SCALE @ A1 CONSULTING CIVIL & STRUCTURAL ENGINEERS 1:100 23 SEPTEMBER 2019 BE Civil (Hons) MIE Aust: "Seascape" Suite 7 22-26 Fisher Rd Dee Why NSW 2099 T 02 9982 7092 F 02 9982 5898 enquire@taylorconsulting.net.au www.taylorconsulting.net.au