



CONCRETE NOTES

ALL WORKMANSHIP & MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AS 3610 & ACSE CONCRETE SPECIFICATION, CURRENT EDITIONS WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

CONCRETE QUALITY

ELEMENTS	STRENGTH GRADE MPa	SLUMP	MAX. AGG SIZE
ALL	S50	80mm	20mm

CONCRETE MIX

MIX PROPORTIONS ARE TO INCLUDE BLENDED CEMENT WITH FLY ASH, OR BLAST FURNACE SLAB, MINIMUM 400KG PER CUBIC METRE. MAX WATER CEMENT RATIO = 0.4. SUPERPLASTICIZERS MAY BE USED.

THE FINISHED CONCRETE SHALL BE MECHANICALLY VIBRATED TO ACHIEVE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING ALL AIR POCKETS.

PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3600.

ALL CONCRETE TO BE PROPORTIONED TO LIMIT DRYING SHRINKAGE TO 650 MICROSTRAIN AT 56 DAYS.

NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.

THE FINISHED CONCRETE SHALL BE MECHANICALLY VIBRATED TO ACHIEVE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK AND FREE OF AIR POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.

CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF THREE (3) DAYS AND THE PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAYED ON CURING COMPOUNDS MAY BE USED WHERE NO FLOOR FINISHES ARE PROPOSED. POLYTHENE SHEETING OR WET HESSIAN MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.

REPAIRS TO CONCRETE SHALL NOT BE ATTEMPTED WITHOUT THE PERMISSION OF THE ENGINEER.

ALL CONCRETE SURFACES SHALL BE BROOM FINISHED USING A STIFF BRISTLED BROOM.

FOR GROUT WORK USE BOSTIK FLOWFILL GROUT GP OR EQUIVALENT. A READYMIX GROUT MAY BE USED, SUBMIT MIX PROPORTIONS FOR APPROVAL.

FOR NO FINES CONCRETE USE 15MPa, 1:6 CEMENT-AGGREGATE RATIO, WATER:CEMENT RATIO 0.45 TO 0.55.

CURING
NOTE ALL CONCRETE IS TO BE WET CURED FOR A MINIMUM OF 3 DAYS. ALTERNATIVELY SUBMIT DETAILS OF PROPOSED CURING COMPOUND.

PRELIMINARY PLAN - NOT FOR CONSTRUCTION

ISSUE	DESCRIPTION	DRAWN	APPR'D	DATE
5	ISSUED FOR CONSTRUCTION CERTIFICATE	DK	JOC	25/11/08
4	STAGE 2 PROTECTION NOTE REVISED, ADDITIONAL INFO ISSUED FOR DEVELOPMENT APPLICATION	DK	GW	18/9/08
3	CHANGED MADE TO REFLECT DECC PREFERENCES AFTER SITE MEETING 22-8-08	DK	DK, TS	
2	ISSUED FOR DA AND CC	DK	GW	26/5/08
1	PRELIMINARY ISSUE	DK	GW	25/3/08

DATUM	SURVEYOR	DRAWN	DATE
AHD		D.KENNEDY	
AZIMUTH	FIELD BOOK	DESIGNED	DATE
MGA		G.BLUMBERG	
RELATED PLANS		CHECKED	DATE
		J.O'CONNELL	

APPROVED	
(FOR COUNCIL USE ONLY)	
SENIOR DESIGN ENGINEER - CIVIL	DESIGN & TECHNICAL SERVICES MANAGER
DATE	DATE
DATE	DATE



SCALES	NORTH POINT
1:200 1:400 on A3	

CITY OF WOLLONGONG
ALTERATIONS TO ROCK POOL
ROBERT CRAM DRIVE
BELLAMBI
PLAN



DESIGN PCS No.	DES14046	A1
FILE NUMBER		ORIGINAL
SHEET 2 OF 4 SHEETS		
DRAWING No.	SHEET No.	ISSUE
3947	S2	5

