



CONCRETE NOTES

- ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF SANS 2001 (C1)
- THE TYPE AND ORIGIN OF AGGREGATE AND CEMENT SHALL BE SUBMITTED TO THE ENGINEER FOR COMMENT AND APPROVAL. THE CONTRACTOR SHALL SUBMIT A MIX DESIGN AND REPORT BY A RECOGNIZED CONCRETE LABORATORY, TO INDICATE THAT SUITABLE MATERIALS AND MIX PROPORTIONS WILL BE USED TO MAINTAIN WORKABILITY AND TO AVOID ALKALI AGGREGATE REACTION AND EXCESSIVE BLEEDING.
- MIX DESIGNS MUST BE SUBMITTED THROUGLY FOR APPROVAL BY THE ENGINEER BEFORE CONSTRUCTION COMMENCES. IT REMAINS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE MIX DESIGNS APPROVED BY THE ENGINEER.
- ALL SURFACES OF FOUNDATIONS UPON OR AGAINST WHICH CONCRETE IS TO BE PLACED SHALL BE FREE FROM STANDING WATER, LOOS, LOOSE ROCK AND OTHER DEBRIS.
- CONCRETE CLASSES AND YOUNGS MODULUS



DESCRIPTION	CLASS	E-MODULUS
MASS CONCRETE	15/19	19
BLINDING LAYERS	15/19	-
WINGWALLS & SLABS	W30/19	31000
- CONCRETE STRENGTH SPECIFICATIONS

POSITION	MPA (BAY DAYS)	STONE (MM)
FOUNDATIONS	30	19
BEAMS	30	19
SLABS	30	19
WALLS	30	19
- NO PLACING OF CONCRETE SHALL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. THEATER CONTRACTOR SHALL THOROUGHLY CURE ALL CONCRETE IMMEDIATELY AFTER IT HAS BEEN PLACED IN POSITION WITHIN THE JOINT OF EITHER APPROVED IMMERSSION VIBRATORS AND VIBRATING SHUTTERS FOR THIN SECTIONS. TOGETHER WITH RODS, SPALLS, SHOVELS, ETC. IS NECESSARY.
- ALL CONCRETE SHALL BE CONTINUOUSLY CURED FOR 7 DAYS BY AN APPROVED METHOD. TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- THE POSITION AND METHOD OF FORMING OF ALL CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
 - 75mm BLINDING LAYER CONCRETE TO BE CAST UNDER ALL REINFORCED SLABS AND CUT-OFF WALLS.
- CONCRETE COVER TO ALL STRUCTURAL REINFORCEMENT IS 50mm.
- SURFACE FINISHES

TYPE OF SURFACE	FORMED SURFACES	UNFORMED
-UNEXPPOSED	CLASS F1	CLASS U1
-EXPOSED TO VIEW	CLASS F2	CLASS U2
-TOP OF INVERT & APPROX SLAB CURB	CLASS F2	CLASS U2
- GENERALLY, THREE (3) CONCRETE TEST CUBES SHALL BE TESTED AT 7 DAYS AND A FURTHER 3 AT 28 DAYS. THE RESULTS SHALL BE IMMEDIATELY SUBMITTED TO THE ENGINEERS. ONE SET OF TEST CUBES HAS TO BE MADE PER 50 M³ OF CONCRETE OR PART THEREOF OF EVERY ELEMENT CAST.
- REMOVAL OF FORMWORK IN ACCORD TO H7 CONDITIONS TO BE APPROVED BY ENGINEER.
 - MIX DESIGNS SHALL HAVE A MINIMUM CEMENT CONTENT OF 300kg/m³
- NO WORKING SURFACES OR PROTECTIVE TOPS SHALL BE CAST. ALL CONCRETE SURFACES SHALL BE CAST INTO THE STRUCTURE WITHOUT THE ENGINEERS APPROVAL AND NO CUTTING FOR ANY REASON AT A LATER STAGE SHALL BE ALLOWED.
- THE CONTRACTOR SHALL ENSURE THE REINFORCEMENT REMAINS IN THE CORRECT POSITION DURING CASTING.
 - ALL EXPPOSED CONCRETE SHARP EDGES SHALL HAVE 250mm CHAMFERED CORNERS.
- ONLY CEM I (OPC) CEMENT MAY BE USED IN ALL CONCRETE UNLESS THE ENGINEER GIVES WRITTEN APPROVAL OF A MIX CONTAINING OTHER TYPES OF CEMENT.

DRAWING SCHEDULE	
DRAWING No.	DESCRIPTION
ROMH-042-07-01	GENERAL ARRANGEMENT
ROMH-042-07-02	CONCRETE DETAIL
ROMH-042-07-03	REINFORCEMENT DETAIL
ROMH-042-07-10	DETAIL SHEET 1
ROMH-042-07-11	DETAIL SHEET 2
ROMH-042-07-12	DETAIL SHEET 3

FOR TENDER

<p>CLIENT:</p>  <p>MOGALAKWENA MUNICIPALITY</p> <p>54 Relief Street Mokopane 0801</p> <p>TEL: (015) 491 9600 FAX: (015) 491 9608</p>	<p>PROJECT:</p> <p>CONTRACT No. :</p> <p>UPGRADING OF GRAVEL ROADS AND STORMWATER IN MOORDKOPPIE CLUSTER AT MABUSELA AND MASOGE VILLAGES</p>	DESIGN COORDINATOR APPROVAL:					DRAWN: S. QUZA	CHECKED: S. SITHOLE	DESIGNED: P. SEOPA	<p>CONSULTANTS:</p>  <p>ROMH HOUSE WHITBY MANOR OFFICE PARK 167 14 ROAD, NOORDWYK MIDRAND</p> <p>Tel: (010) 035 1460 Email: info@romh.co.za Web: www.romh.co.za</p>	
		SIGNATURE	DATE					SCALES:	AS SHOWN		DATE: SEPTEMBER 2020
		PROJECT MANAGER APPROVAL:						DRAWING TITLE: CONCRETE LAYOUT AND DETAIL OF MASOGE MAJOR CULVERT DETAIL SHEET 1			
		SIGNATURE	DATE	A	JUL 2020	ISSUED FOR TENDER PURPOSE ONLY	SD				
		CLIENT APPROVAL:		REV	DATE	DESCRIPTION	DRAWN	SIZE:	A0		PROJECT No.
								REV No.	A		DRAWING No. ROMH-042-07-10-02
		SIGNATURE	DATE				<p>REVISIONS</p>				