

ITEM NO	POSITION (m)	ANGLE	NUMBER, SIZE AND TYPE	BEDDING TYPE	CULVERT								OUTLET PROTECTION TYPE	PLAN OF IN / OUTLET STRUCTURES	LONGITUDINAL SECTION OF CULVERT								PLAN OF IN / OUTLET STRUCTURES								
					DESIGN FLOOD				BACKED-UP WATER LEVEL		OUTLET VELOCITY FOR Q				NOTE: THE LONGITUDINAL SECTION IS SHOWN THROUGH THE CENTRELINE OF THE PIPE OR BOX CULVERT																
					AREA (ha)	FREQUENCY	Q10	Q20	NATURAL FLOW LEVEL	NATURAL VELOCITY	Q10	Q20			OUTLET VELOCITY FOR Q	TC1(mm)	TC2(mm)	HH(mm)	TW(mm)	HF1(mm)	a 1	≤ 2		TC1(mm)	TC2(mm)	HH(mm)	TW(mm)	HF2(mm)	a 1	≤ 2	
1/1	1381.50	136	1 / 500 PC - SPIGOT AND SOCKET Class 1000	Class C	36	1:10	0.73	0.82	-	-	0.72	0.76	0.96	-	500	500	1120	-	915	30	30	500	500	1145	-	910	30	30			

**SCALEBAR**

Scale 1:200

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All dimensions must be verified on site before the works commence. Refer any discrepancies to the Engineer.

The reference made to Engineer will also refer to Employer's Agent for GCC 2015 Contracts

REV	DESCRIPTION	DATE	REV BY	CHKD
A	FOR INFORMATION	'18-03-06	NL	RS
REVISIONS				

DESIGNED	AL
DRAWN	NL
CHECKED	RS

**CONSULTING ENGINEERS**

**LYNERS**

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APPROVED  
ENGINEERS: \_\_\_\_\_  
DATE: 2018-03-06

CLIENT

**Western Cape Government**  
Transport and Public Works

APPROVED  
CLIENT: \_\_\_\_\_  
DATE: \_\_\_\_\_

PROJECT

**UPGRADING OF  
DIVISIONAL ROAD 1103**

TITLE

**DETAILS OF CULVERT AT SV 1381.50**

SCALE	on A2	SHEET
1:200		1 OF 1
CONTRACT No.		PROJECT No.
-		C14003
DRAWING No.		REV
14003-C-005-01		A
COORDINATE SYSTEM: WGS84 / Lot19		