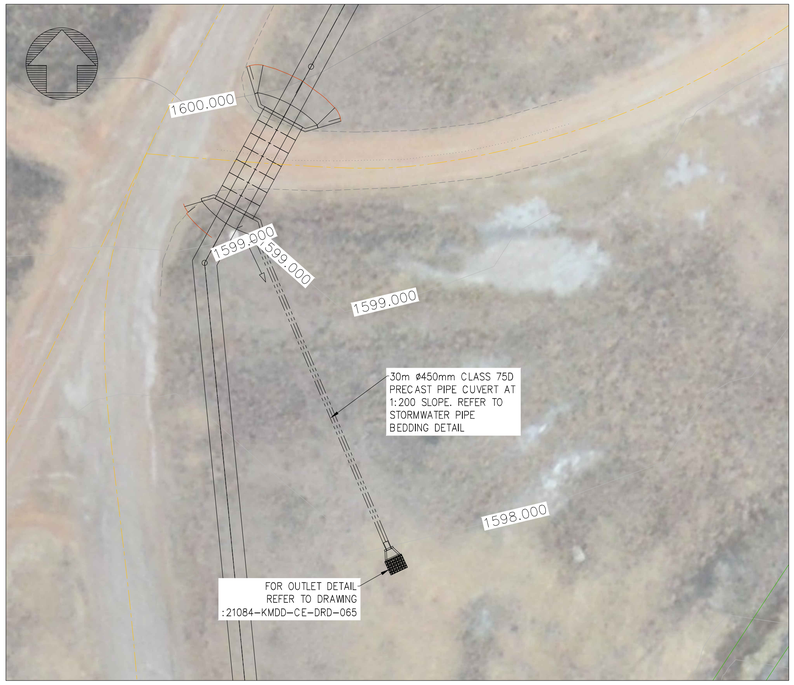
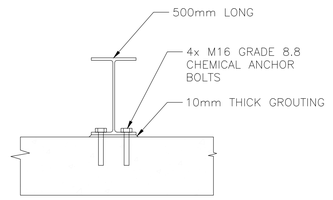
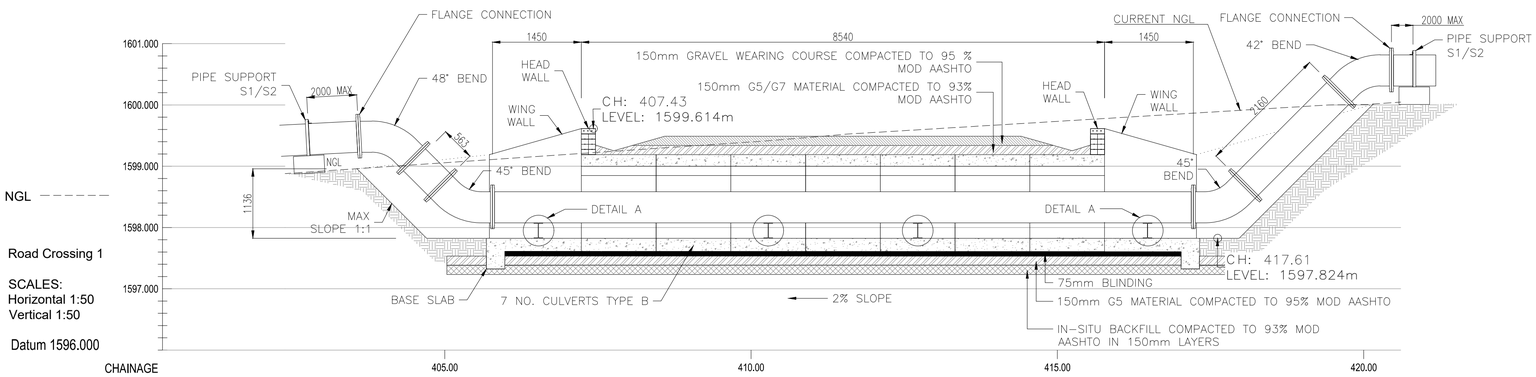
ROAD CROSSING: RC1 PLAN VIEW
CH 410 AWR ALIGNMENT
SCALE 1:50

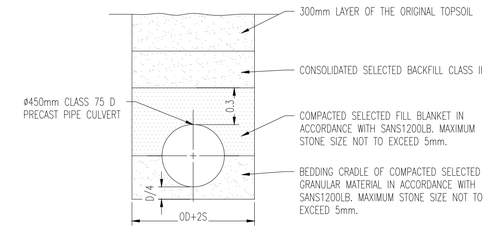


ROAD CROSSING: RC1 DRAINAGE DETAIL
SCALE 1:250



DETAIL A
SCALE 1:10





STORMWATER PIPE BEDDING DETAILS
SCALE 1:25

EPCM BONISANA (PTY) LTD

THIS DRAWING TAKES INTO ACCOUNT THE PARTICULAR INSTRUCTIONS AND REQUIREMENTS OF OUR CLIENT.

IT IS NOT INTENDED FOR AND SHOULD NOT BE RELIED UPON BY ANY THIRD PARTY AND NO RESPONSIBILITY IS UNDERTAKEN TO ANY THIRD PARTY

NOTES:

1. COORDINATE SYSTEM: WGS 84 TRANSVERSE MERCATOR, Lo 29, DATUM: HARTEBEESHOEK 94.
2. REFER TO LONG SECTIONS FOR LOCATION OF CROSSINGS.
3. PORTAL CULVERTS TO RUN PARALLEL TO PIPE ROUTE.
4. REFER TO CULVERT DETAILS DRAWING No. 21084-KMDD-CE-DRD-056 FOR CULVERT AND HEAD/WING WALL DETAILS.
5. ALL BENDS TO BE 3D LONG RADIUS BENDS.
6. CROSSINGS TO BE INSTALLED NOT TO IMPEDE WITH NATURAL STORMWATER DRAINAGE OR APPROVED DIVERSIONS TO BE PROVIDED.
7. AREA ADJACENT TO CROSSING TO BE SLOPED AWAY FROM CULVERT OR SUITABLE BERM TO BE PROVIDED TO PREVENT STORMWATER ENTERING CULVERT.
8. STORMWATER PIPE CULVERT TO BE PROVIDED FROM INVERT OF CULVERT EXCAVATION AT 0.5% SLOPE UP TO DAYLIGHT POSITION.
9. TOPSOIL TO BE REMOVED FROM STORMWATER CHANNEL AREA PRIOR TO CONSTRUCTION TO 150mm DEPTH, TOPSOIL TO BE REINSTATED AFTER COMPLETION, WHERE OPEN CHANNELS ARE REQUIRED.
10. WHERE STORMWATER DRAIN SIDE SLOPES ARE UNSTABLE, SLOPES TO BE SUITABLY COMPACTED.
11. CULVERT BASE SLABS MAY BE PRECAST OR CAST INSITU.
12. FOR PIPE CULVERT, INLET, OUTLET AND SOIL EROSION REFER TO DRAWING :20184-KMDD-CE-DRD-065

LEGEND:

- EXISTING ROAD EDGES
- PIPE LINE CENTERLINES
- STORMWATER DRAINAGE
- NATURAL WATER COURSE

COORDINATES		
POINT	Y	X
CUL1a	-16 408.263	2 908 894.232
CUL1b	-16 411.347	2 908 895.904
CUL1c	-16 407.275	2 908 903.411
CUL1d	-16 404.211	2 908 901.749

EPCM Bonisana (Pty) Ltd
epcm
ECSA PR Eng.
20060005
S. DU RAND

epcm
APPROVED FOR CONSTRUCTION

Eskom

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KRIEL TO MATLA ASH TRANSFER LINK

											PROC. ENG.	C.P.	LOCATION: KRIEL/MATLA POWER STATION, MPUMALANGA
											INSTR. ENG.	J.P.	
											ELECT. ENG.	J.P.	
21084-KMDD-DAL-005	ROAD CROSSING LAYOUT										STRUC. ENG.	H.B.	SECTION: CROSSING
21084-KMDD-CE-DRD-031-01	AWR PIPELINE LONG SECTIONS 1/7										CIVIL. ENG.	S.d.R.	
21084-KMDD-CE-DRD-056	CULVERT DETAILS										MECH. ENG.	T.C.	TITLE: ROAD CROSSING 1 PLAN AND SECTION DETAIL
21084-KMDD-CE-DRD-065	PIPE CULVERT LONG SECTIONS AND DETAILS	1.1	CROSS SECTION DETAIL ADDED	M.M	D.J.	V.W.B.	S.d.R.	30.07.23	–	–	–	PROJ. MAN.	S.d.R.
DWG No.	TITLE	1	APPROVED FOR CONSTRUCTION	D.J.	D.J.	V.W.B.	S.d.R.	13.04.23	NAME	SIGN	DATE	DISCIPLINE	SIGN DATE
REFERENCE DRAWINGS		No.	REVISION	CAD.	BY	CHK.	APP.	DATE	CLIENT APPROVAL			COMPANY APPROVAL	

PROJECT No.:	21084	PAGE SIZE:	A1
CLIENT DRAWING No.			REV
0.45/61021-071			

DRAWING No. 21084-KMDD-CE-DRD-057-01 REV 1.1