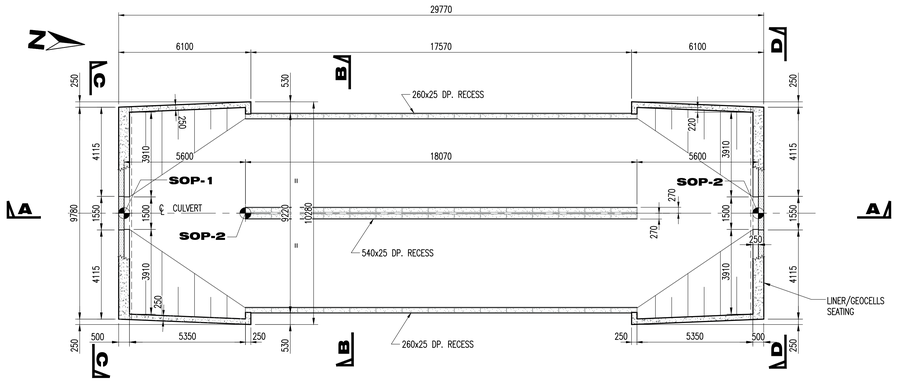
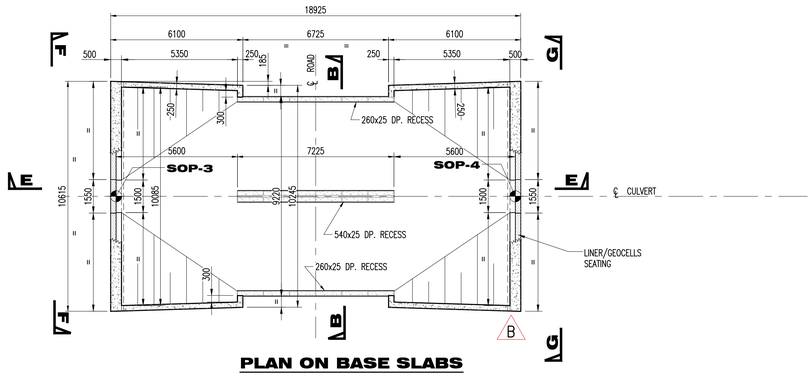
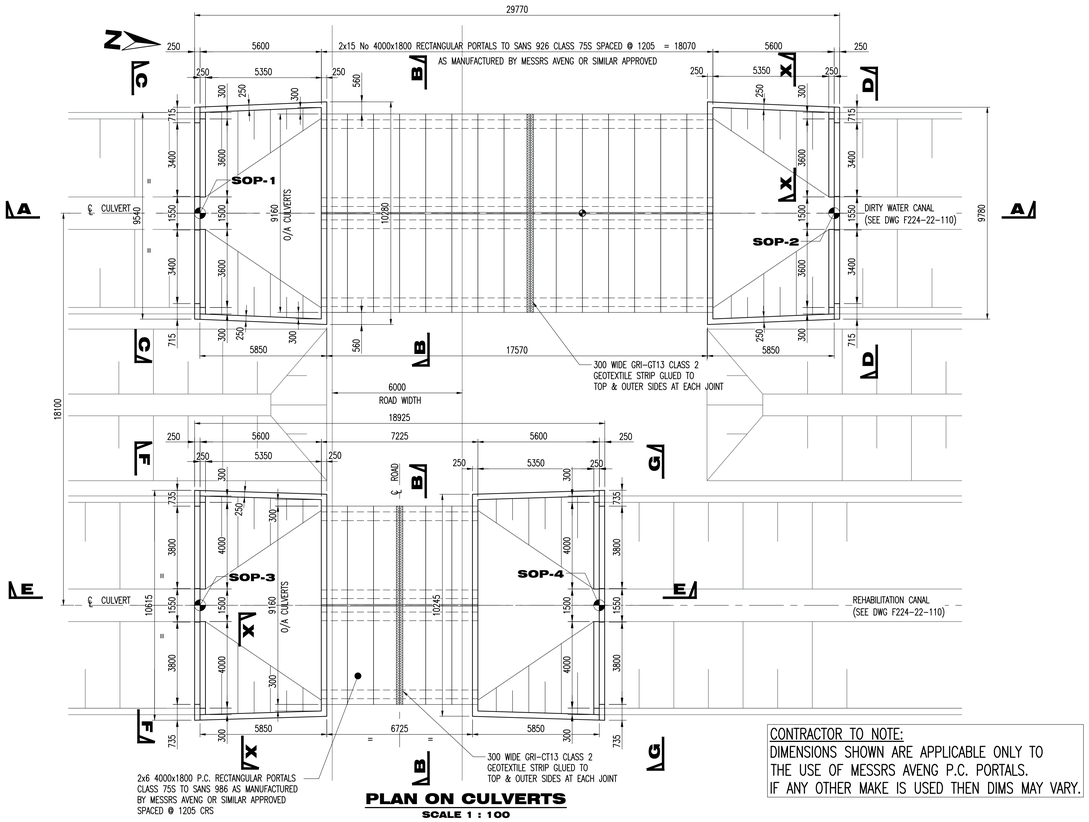


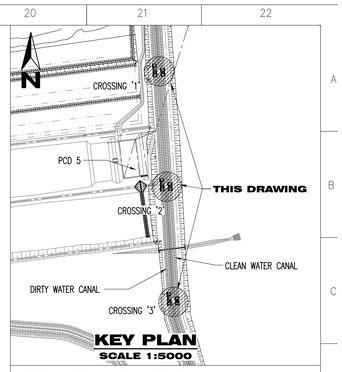


PLAN ON BASE SLABS
SCALE 1 : 100



PLAN ON CULVERTS
SCALE 1 : 100

CONTRACTOR TO NOTE:
DIMENSIONS SHOWN ARE APPLICABLE ONLY TO THE USE OF MESSRS AVENG P.C. PORTALS.
IF ANY OTHER MAKE IS USED THEN DIMS MAY VARY.



KEY PLAN
SCALE 1:5000

GENERAL NOTES

2015 REV 1

ALL WORK IS TO BE EXECUTED IN ACCORDANCE WITH OF SANS 1200 & THE NATIONAL BUILDING REGULATIONS – SANS 10400.

ALL DIMENSIONS & LEVELS TO BE VERIFIED ON SITE & ANY DISCREPANCIES ARE TO BE BROUGHT TO THE RESPONSIBLE ENGINEER'S ATTENTION PRIOR TO IMPLEMENTATION OF ANY FURTHER WORKS.

THE FOLLOWING NOTES APPLY UNLESS OTHERWISE NOTED

1. DESIGN PARAMETERS
1.1 SAFE GROUND BEARING PRESSURE: 100 kPa.
1.2 DESIGN LOAD WITH MIN. 300mm SOIL COVER: 40T ADT & D8 DOZER.

2. EARTHWORKS
2.1 FOUNDATION MATERIAL TO BE APPROVED BY THE ENGINEER.
2.2 BACKFILL IS TO COMPRISE OF SELECTED APPROVED GRANULAR MATERIAL.
2.3 BACKFILL IS TO BE COMPACTED TO 93% MOD AASHTO AT ± 2% OMC.
2.4 BACKFILL LAYERS NOT TO EXCEED 150mm IN THICKNESS.

3. CONCRETE
3.1 BLINDING: GRADE 15 MPa MINIMUM THICKNESS 50mm.
3.2 MASS: GRADE 15 MPa.
3.3 STRENGTH: GRADE 35 MPa.
3.4 CURING: CONCRETE SURFACES ARE TO BE CURED TO SANS 1200G.

4. FORM-WORK
4.1 ALL EXPOSED CORNERS ARE TO BE PROVIDED WITH 20x20 CHAMFERS
4.2 EXPOSED SURFACE FINISH: SMOOTH
4.3 HIDDEN SURFACE FINISH: ROUGH

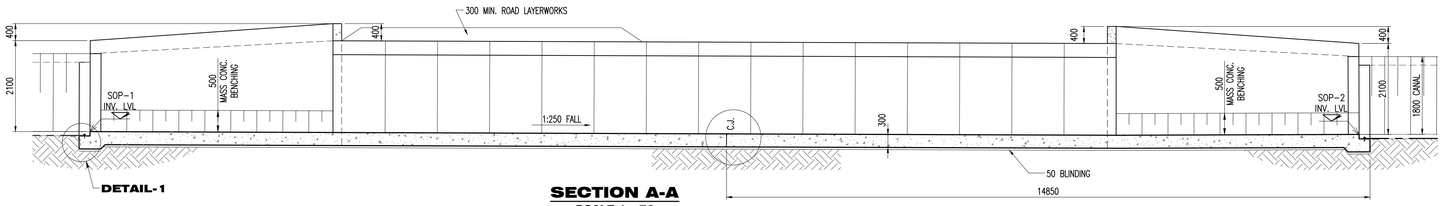
5. UNFORMED SURFACE FINISHES
5.1 SURFACES COVERED BY EARTH: WOOD FLOAT.
5.2 EXPOSED SURFACES: WOOD FLOAT.

6. CONSTRUCTION SEQUENCE
6.1 CONSTRUCT BASE SLAB
6.2 INSTALL PRECAST CULVERTS
6.3 COMPLETE HEAD WALLS
6.4 BACKFILL & CONSTRUCT EMBANKMENT
6.5 ADD HEAD WALL BENCHING SHAPED TO SUIT CANAL CROSS-SECTION.

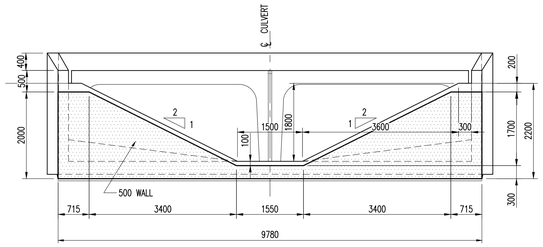
SETTING-OUT COORDINATES
(CAPE DATUM Lo29)

CROSSING	SOP	Y	X	INV. LVL
1	SOP-1	-74962.943	+3000276.374	+1710.33
	SOP-2	-74961.087	+3000247.163	+1710.21
	SOP-3	-74981.029	+3000275.586	+1710.15
	SOP-4	-74979.861	+3000257.198	+1710.07
2	SOP-1	-74979.713	+3000540.243	+1711.39
	SOP-2	-74977.857	+3000511.032	+1711.27
	SOP-3	-74997.800	+3000539.455	+1711.21
	SOP-4	-74996.631	+3000521.067	+1711.13
3	SOP-1	-74996.081	+3000804.173	+1712.45
	SOP-2	-74994.275	+3000774.959	+1712.33
	SOP-3	-75014.169	+3000803.417	+1712.28
	SOP-4	-75013.032	+3000785.027	+1712.20

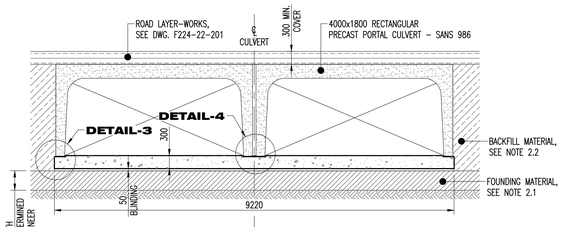
ALL SETTING-OUT CO-ORDINATES & LEVELS TO BE CONFIRMED ON SITE



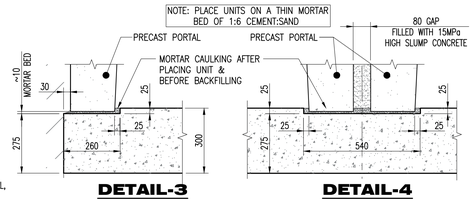
SECTION A-A
SCALE 1 : 50



ELEVATION C-C AS SHOWN
ELEVATION D-D, SIMILAR
SCALE 1 : 50

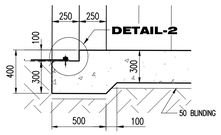


SECTION B-B
SCALE 1 : 50

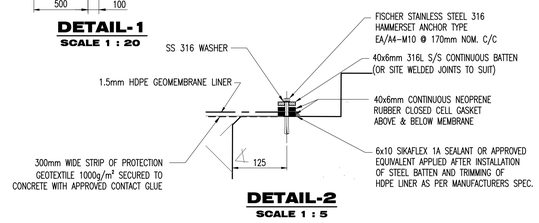


DETAIL-3
SCALE 1 : 10

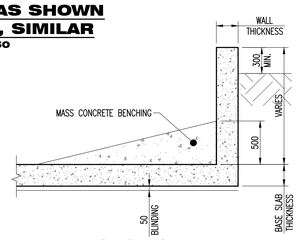
DETAIL-4
SCALE 1 : 10



DETAIL-1
SCALE 1 : 20



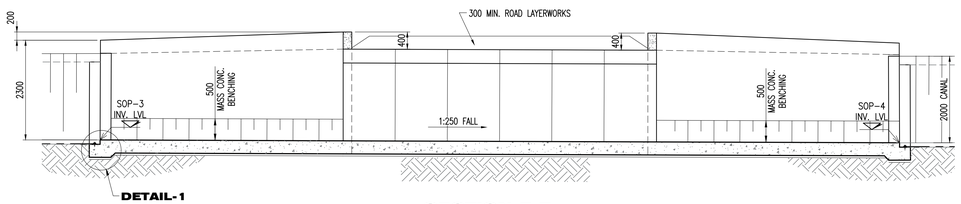
DETAIL-2
SCALE 1 : 5



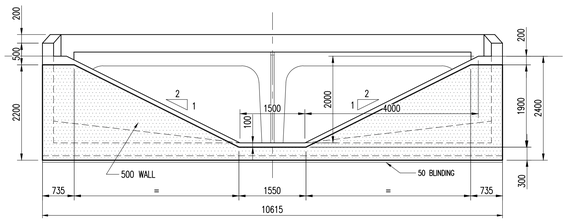
SECTION X-X
(TYPICAL BENCHING DETAIL)
SCALE 1 : 25

DRAWING TO BE REVIEWED BY A Pr. ENG PRIOR TO CONSTRUCTION IN TERMS OF SITE CONDITIONS AND CURRENT ENVIRONMENTAL LEGISLATION

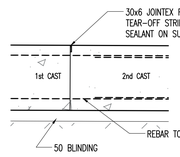
ISSUED FOR CONSTRUCTION
SIGNED ..... DATE 01.09.17



SECTION E-E
SCALE 1 : 50



ELEVATION F-F AS SHOWN
ELEVATION G-G, SIMILAR
SCALE 1 : 50



CONSTRUCTION JOINT
SCALE 1 : 10

D.O.	REV	DATE	INDEX REFERENCE	REV BY	CHKD BY	AUTH BY	KKS APP	REFERENCE DRAWINGS
00	0	30.06.17	ISSUED FOR CONSTRUCTION	UM	PG			
00	B	06.06.17	ISSUED FOR TENDER	UM	PG			CANAL SECTIONS & DETAILS – F224-22-110
00	A	26.09.16	ISSUED FOR APPROVAL	DFC	PG			CANAL DETAILS – F224-10-001

** REVISION **

			AUTHORISED FOR ESKOM BY	DATE
DRG REGISTR				
DSGN APPRVD	PG	27.07.16		
KKS APP			P. Gage 26.10.16	
D.O. AUTH			840365	
CHKD BY	PG	27.07.16		
DRAWN BY	DFC	13.07.16		
SCALE	AS SHOWN			

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Eskom Enterprises

ESKOM HOLDINGS SOC Ltd.
MAJUBA POWER STATION
EXTENSION OF ASH DISPOSAL FACILITY
STORM WATER MANAGEMENT
EASTERN VEHICLE BRIDGE CROSSINGS 1, 2, 3 - CONCRETE DETAILS

F224-10-150

0.66/99363

SPF CODE	SHEET	REV
	1	0

SIZE A0 GROOTE