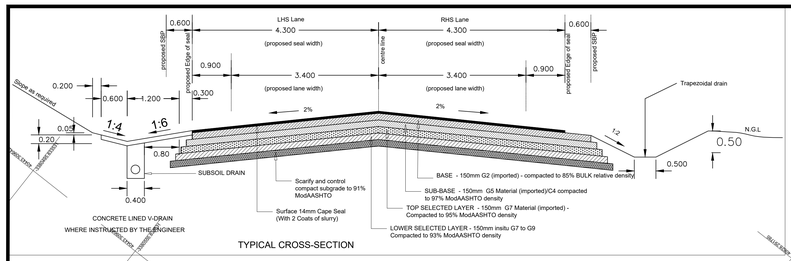
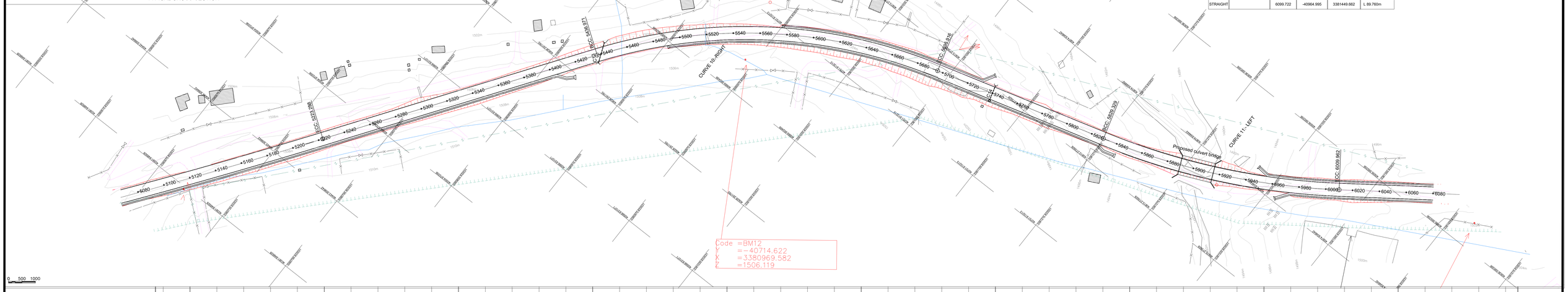
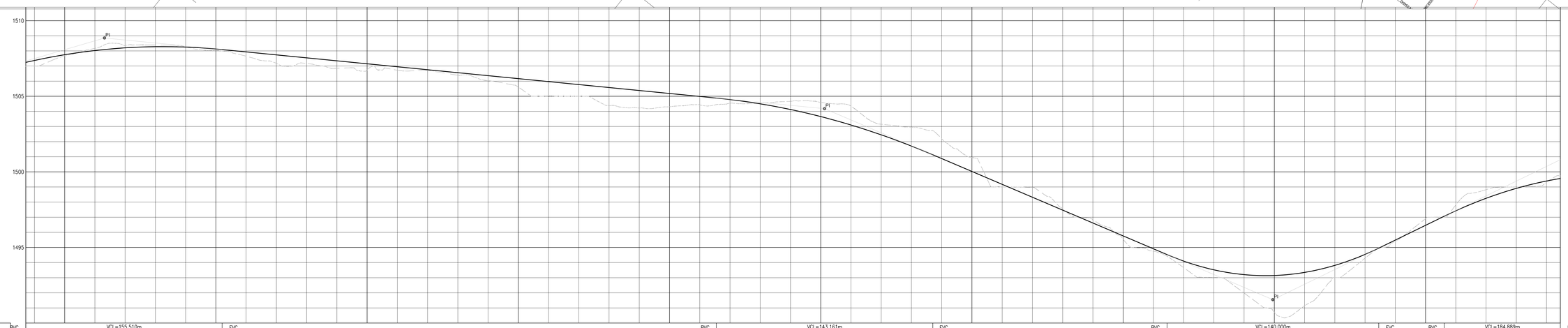


TYPICAL CROSS-SECTION

SETTING OUT DATA-Main road

NAME	DESCRIPTION	CH	Y	X	DETAILS
CURVE 9	BCC PI ECC	4792.054 5223.298	-40131.776 -40296.059 -40473.366	3380496.077 3380636.005 3380759.013	R 4356.642m DA 5°40'20" TL 215.798m AL 431.244m
STRAIGHT		5436.971	-40648.927	3380880.810	L 213.673m
CURVE 10	BCC PI ECC	5436.971 5695.916	-40648.927 -40759.676 -40796.786	3380880.810 3380957.642 3381087.223	R 377.830m DA 39°16'00" TL 134.790m AL 258.945m
STRAIGHT		5829.329	-40833.518	3381215.480	L 133.414m
CURVE 11	BCC PI ECC	5829.329 6009.962	-40833.518 -40858.640 -40912.254	3381215.480 3381303.199 3381377.032	R 517.367m DA 20°00'20" TL 91.245m AL 180.633m
STRAIGHT		6099.722	-40964.995	3381449.662	L 89.760m





SCALES:
Horizontal 1:1000
Vertical 1:100

Datum 1490.000

VERTICAL PROFILE GRADES

BVC 5048.600 — VCL=155.510m K=40 — EVC 5204.110
5126.340 | 1508.855
−0.982%
BVC 5530.941 — VCL=143.161m K=44 — EVC 5674.101
5602.521 | 1504.180
−4.261%
BVC 5829.037 — VCL=140.000m K=15 — EVC 5969.037
5899.037 | 1491.545
4.871%
BVC 6012.368 — VCL=184.889m K=24 — EVC 6197.257
6104.813 | 1501.569

FINAL DESIGN ROAD LEVELS

Chainage	LEFT EDGE (HL)	CENTRE LINE (CL)	RIGHT EDGE (HR)	GROUND LEVELS ON CL
5074	1507.343	1507.344	1507.343	1506.989
5080	1507.453	1507.371	1507.453	1507.002
5100	1507.774	1507.749	1507.774	1507.674
5120	1507.993	1508.026	1507.993	1508.171
5140	1508.112	1508.203	1508.112	1508.357
5160	1508.130	1508.279	1508.130	1508.391
5180	1508.048	1508.255	1508.048	1508.265
5200	1507.874	1508.130	1507.874	1508.048
5220	1507.685	1507.835	1507.685	1507.650
5240	1507.495	1507.739	1507.495	1507.179
5260	1507.306	1507.543	1507.306	1507.168
5280	1507.116	1507.346	1507.116	1506.851
5300	1506.927	1507.150	1506.927	1506.735
5320	1506.737	1506.954	1506.737	1506.721
5340	1506.548	1506.757	1506.548	1506.711
5360	1506.358	1506.561	1506.358	1506.388
5380	1506.169	1506.365	1506.169	1506.031
5400	1505.979	1506.168	1505.979	1505.606
5420	1505.765	1505.972	1505.765	1505.019
5440	1505.449	1505.776	1505.449	1504.999
5460	1505.168	1505.579	1505.168	1504.377
5480	1504.976	1505.383	1504.976	1504.221
5500	1504.787	1505.186	1504.787	1504.307
5520	1504.597	1504.990	1504.597	1504.429
5540	1504.391	1504.784	1504.391	1504.538
5560	1504.101	1504.501	1504.101	1504.554
5580	1503.718	1504.125	1503.718	1504.666
5600	1503.244	1503.658	1503.244	1504.595
5620	1502.679	1503.100	1502.679	1504.444
5640	1502.022	1502.450	1502.022	1503.151
5660	1501.273	1501.708	1501.273	1502.850
5680	1500.459	1500.878	1500.459	1502.195
5700	1499.729	1500.026	1499.729	1500.945
5720	1498.975	1499.174	1498.975	1499.020
5740	1498.177	1498.392	1498.177	1498.964
5760	1497.275	1497.470	1497.275	1497.536
5780	1496.425	1496.617	1496.425	1496.836
5800	1495.660	1495.765	1495.660	1495.546
5820	1494.943	1494.913	1494.943	1494.753
5840	1494.275	1494.100	1494.275	1493.669
5860	1493.756	1493.521	1493.756	1493.020
5880	1493.468	1493.203	1493.468	1491.987
5900	1493.441	1493.146	1493.441	1490.723
5920	1493.674	1493.351	1493.674	1491.146
5940	1494.189	1493.815	1494.189	1493.002
5960	1494.924	1494.541	1494.924	1494.295
5980	1495.883	1495.489	1495.883	1495.411
6000	1496.860	1496.463	1496.860	1496.804
6020	1497.823	1497.425	1497.823	1497.807
6040	1498.639	1498.251	1498.639	1498.823
6060	1499.287	1498.907	1499.287	1499.004
6080	1499.765	1499.396	1499.765	1499.325
6089	1499.926	1499.592	1499.926	1499.730

SUPERELEVATION

HORIZONTAL ALIGNMENT

BCC 4811.564 — CURVE 9 LEFT R=4356.642m l=30° 21' 30" — ECC 5223.239 — DIRECTION 304° 45' 00" — BCC 5436.971 — CURVE 10 RIGHT R=377.830m l=324° 23' 10" — ECC 5695.180 — DIRECTION 344° 01' 10" — BCC 5831.594 — CURVE 11 LEFT R=517.367m l=334° 01' 00" — ECC 6012.227 — DIRECTION 324° 00' 50"

DISTANCE (m)

LONGSECTION MAIN ROAD
From 5074.283 to 6089.139

ISSUED FOR DESIGN

Drawing Nr	Reference Drawing	Date	Chkd	Apprv

Rev	Description	Date	Chkd	Apprv

Client

Province of the EASTERN CAPE TRANSPORT

Project

THE COMPLETION OF UPGRADING TO A SURFACE STANDARD DR08606(+/- 12Km) STERKSPRUIT TO MLAMLI

Consultant

MASILAKHE CONSULTING
DEVELOPMENT MANAGERS

Approved:
Name S.K.Anthony Date: 07-02-2020

Drawing Title

HORIZONTAL AND VERTICAL ALIGNMENT
Ch 0+000 TO Ch 1+00.000

Proj. Engineer	S.K.Anthony
Designed	M.Gadlela
Drawn	M.Gadlela
Checked	S.K.Anthony
Proj. Manager	S.K.Anthony

Scale 1:1000
Sheet No. 06 OF 12
Project No. E 240
Drawing No. H.V.A-001
Revision T