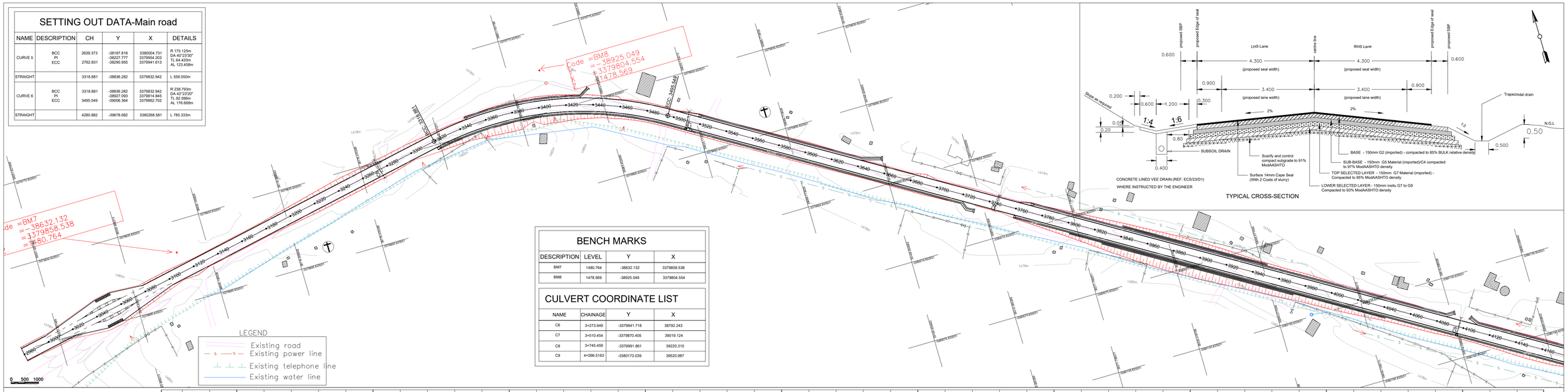
SETTING OUT DATA-Main road

NAME	DESCRIPTION	CH	Y	X	DETAILS
CURVE 5	BCC PI ECC	2639.373 2762.831	-38187.818 -38227.777 -38290.955	3380004.731 3379954.203 3379941.613	R 175.125m DA 40°23'30" TL 64.420m AL 123.458m
STRAIGHT		3318.881	-38836.282	3379832.942	L 556.050m
CURVE 6	BCC PI ECC	3318.881 3495.549	-38836.282 -38927.093 -39006.364	3379832.942 3379814.845 3379862.702	R 238.793m DA 42°23'25" TL 92.596m AL 176.668m
STRAIGHT		4280.882	-39678.682	3380268.581	L 785.333m



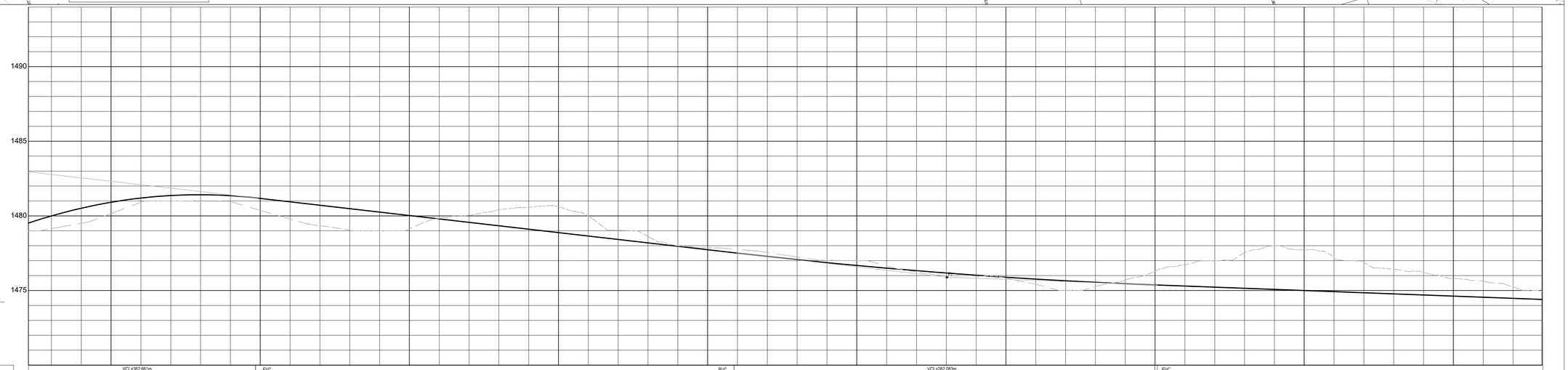
BENCH MARKS

DESCRIPTION	LEVEL	Y	X
BM7	1480.764	-38632.132	3379858.538
BM8	1478.569	-38925.049	3379804.554

CULVERT COORDINATE LIST

NAME	CHAINAGE	Y	X
C6	3+273.949	-3379841.718	38792.243
C7	3+510.454	-3379870.405	39019.124
C8	3+745.459	-3379991.861	39220.310
C9	4+096.5163	-3380173.039	39520.987

TYPICAL CROSS-SECTION



KEY LEGEND
- Finished level
- Existing level
- Left edge
- Centre line
- Right edge

DESIGN SPEED 80km/h

2% 2%

SCALES:
Horizontal 1:1000
Vertical 1:100

Datum 1470.000

VERTICAL PROFILE GRADES: VCL=362.661m K=35; EVC 3196.905; -1.146%; BVC 3517.675; VCL=282.083m K=366; EVC 3799.757; 3658.712 1475.894; -0.375%

FINAL DESIGN ROAD LEVELS

DISTANCE (m)	LEFT EDGE (HL)	CENTRE LINE (CL)	RIGHT EDGE (HR)	GROUND LEVELS ON CL
3060	1479.849	1480.047	1479.849	1479.176
3080	1480.454	1480.552	1480.454	1479.530
3100	1480.843	1480.941	1480.843	1480.219
3120	1481.116	1481.214	1481.116	1480.984
3140	1481.274	1481.372	1481.274	1480.964
3160	1481.316	1481.414	1481.316	1480.885
3180	1481.243	1481.341	1481.243	1480.603
3200	1481.055	1481.153	1481.055	1480.317
3220	1480.825	1480.923	1480.825	1479.743
3240	1480.596	1480.694	1480.596	1479.317
3260	1480.370	1480.465	1480.367	1479.000
3280	1480.234	1480.236	1480.138	1479.002
3300	1480.140	1480.006	1479.869	1479.203
3320	1480.046	1479.777	1479.508	1479.862
3340	1479.928	1479.548	1479.167	1480.062
3360	1479.711	1479.319	1478.927	1480.432
3380	1479.481	1479.089	1478.697	1480.597
3400	1479.252	1478.860	1478.468	1480.563
3420	1479.023	1478.631	1478.239	1479.888
3440	1478.793	1478.401	1478.009	1479.037
3460	1478.564	1478.172	1477.780	1478.522
3480	1478.303	1477.843	1477.383	1477.870
3500	1477.945	1477.714	1477.482	1477.852
3520	1477.381	1477.485	1477.371	1477.739
3540	1477.223	1477.262	1477.304	1477.319
3560	1476.952	1477.050	1477.352	1477.219
3580	1476.752	1476.950	1477.352	1477.219
3600	1476.592	1476.660	1476.592	1476.996
3620	1476.393	1476.461	1476.393	1476.598
3640	1476.216	1476.314	1476.216	1476.212
3660	1476.059	1476.157	1476.059	1475.886
3680	1475.913	1476.011	1475.913	1475.849
3700	1475.778	1475.876	1475.778	1475.793
3720	1475.654	1475.752	1475.654	1475.379
3740	1475.541	1475.639	1475.541	1475.002
3760	1475.439	1475.537	1475.439	1475.307
3780	1475.347	1475.445	1475.347	1475.739
3800	1475.267	1475.365	1475.267	1475.390
3820	1475.192	1475.290	1475.192	1475.760
3840	1475.117	1475.215	1475.117	1477.000
3860	1475.042	1475.140	1475.042	1477.992
3880	1474.967	1475.065	1474.967	1478.010
3900	1474.893	1474.991	1474.893	1477.735
3920	1474.818	1474.916	1474.818	1477.062
3940	1474.743	1474.841	1474.743	1476.774
3960	1474.668	1474.766	1474.668	1476.406
3980	1474.593	1474.691	1474.593	1476.172
4000	1474.518	1474.616	1474.518	1475.855
4020	1474.443	1474.541	1474.443	1475.589
4040	1474.368	1474.466	1474.368	1475.180
4060	1474.293	1474.391	1474.293	1474.846

SUPERELEVATION: -2.0%; 8.0%; 8.0%; -2.0%; -2.0%; -8.0%; -2.0%

HORIZONTAL ALIGNMENT: DIRECTION 258° 43' 50"; BCC 3318.881; CURVE 6 RIGHT R=238.793m I=276° 55' 30"; ECC 3495.549; DIRECTION 301° 07' 10"

LONGSECTION MAIN ROAD
From 3044.570 to 4059.426

ISSUED FOR TENDER

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 2+900 TO Ch 4+120.000

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. 4 OF 12
Project No. E 240
Drawing No. H.V.A-004
Revision T