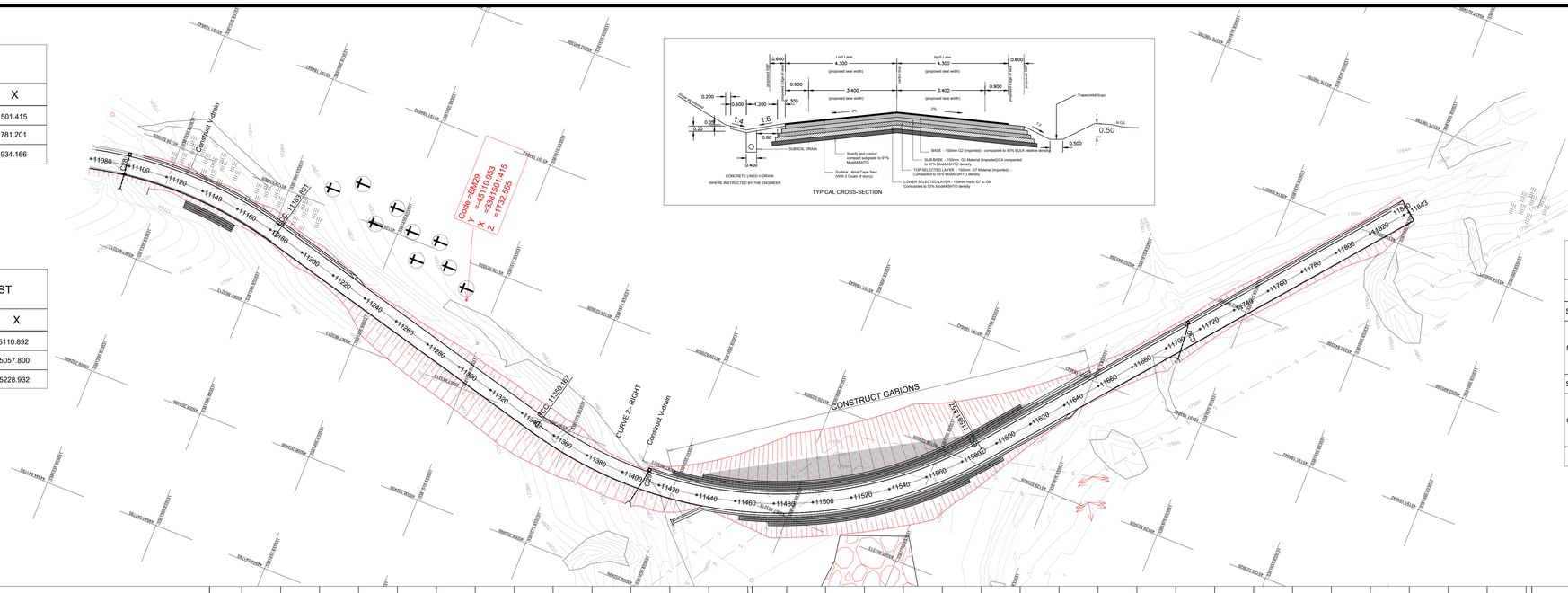
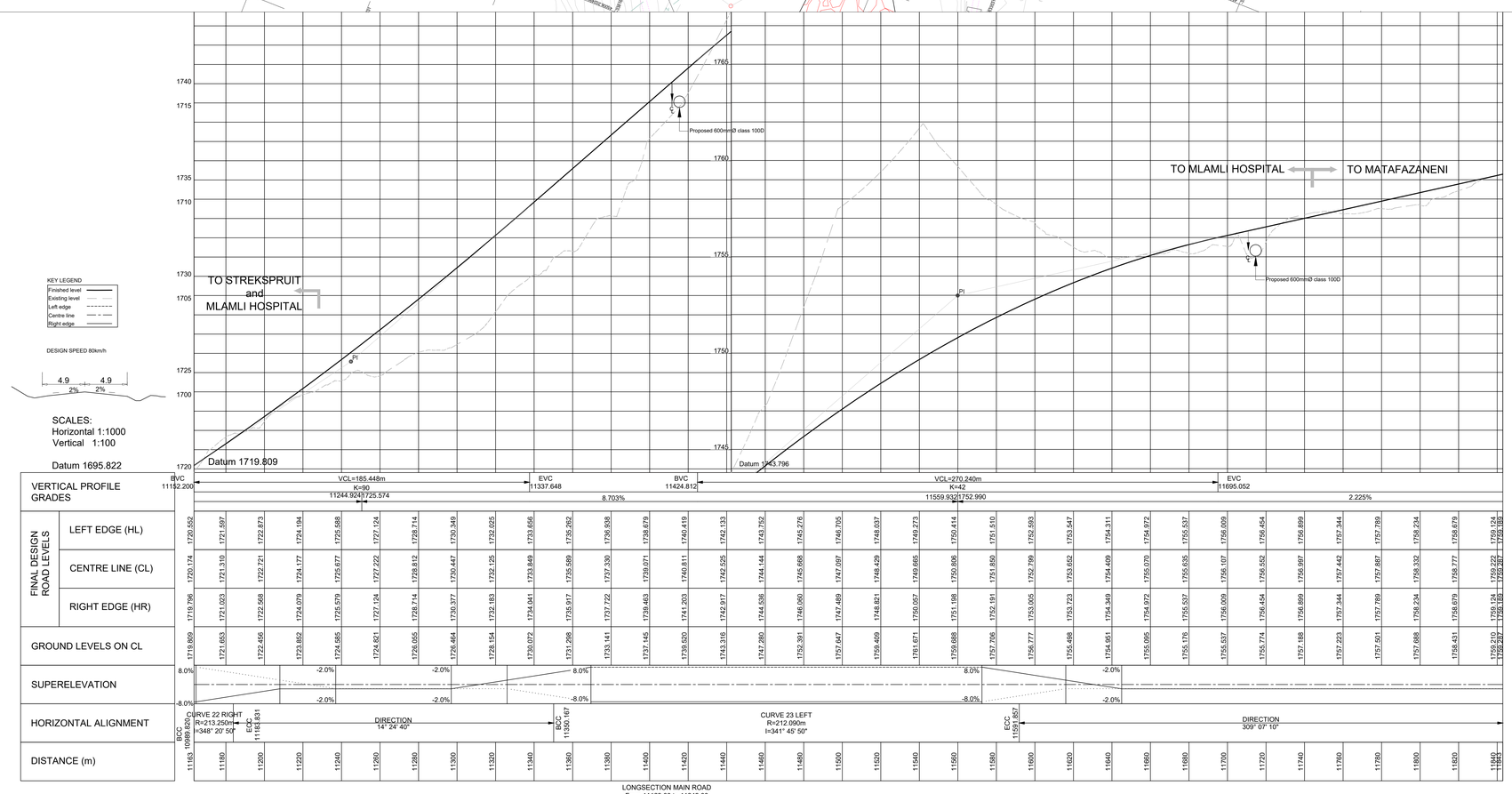
BENCH MARKS			
DESCRIPTION	LEVEL	Y	X
BM 29	1732.555	-45110.953	3381501.415
BM 30	1746.916	-44860.216	3381781.201
BM 31	1760.433	-44832.148	3381934.166

CULVERT COORDINATE LIST			
NAME	CHAINAGE	Y	X
C 28	11+098.727	-3381313.714	45110.892
C 29	11+411.588	-3381619.936	45057.800
C 30	11+710.735	-3381851.572	45228.932



SETTING OUT DATA-Main road					
NAME	DESCRIPTION	CH	Y	X	DETAILS
STRAIGHT		10989.820	-45068.651	3381214.607	L 270.210m
CURVE 22	BCC PI ECC	10989.820 11183.831	-45068.651 -45132.456 -45106.498	3381214.607 3381297.115 3381398.134	R 213.250m DA 52°07'40" TL 104.301m AL 194.010m
STRAIGHT		11350.167	-45065.101	3381559.236	L 166.336m
CURVE 23	BCC PI ECC	11350.167< 11591.857	-45065.101 -45031.284 -45136.702	3381559.236 3381690.838 3381776.568	R 212.090m DA 65°17'30" TL 135.877m AL 241.690m
END		11842.934	-45331.497	3381934.981	L 251.077m

LEGEND
- Existing road
- Existing power line
- Existing telephone line
- Existing water line



LONGSECTION MAIN ROAD
From 11163.00 to 11843.00

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 11+163.000 TO Ch 11+843.000

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. 12 OF 12

Project No. E 240

Drawing No. H.V.A-001 | Revision 0