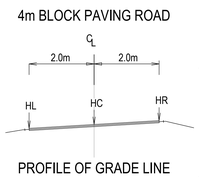


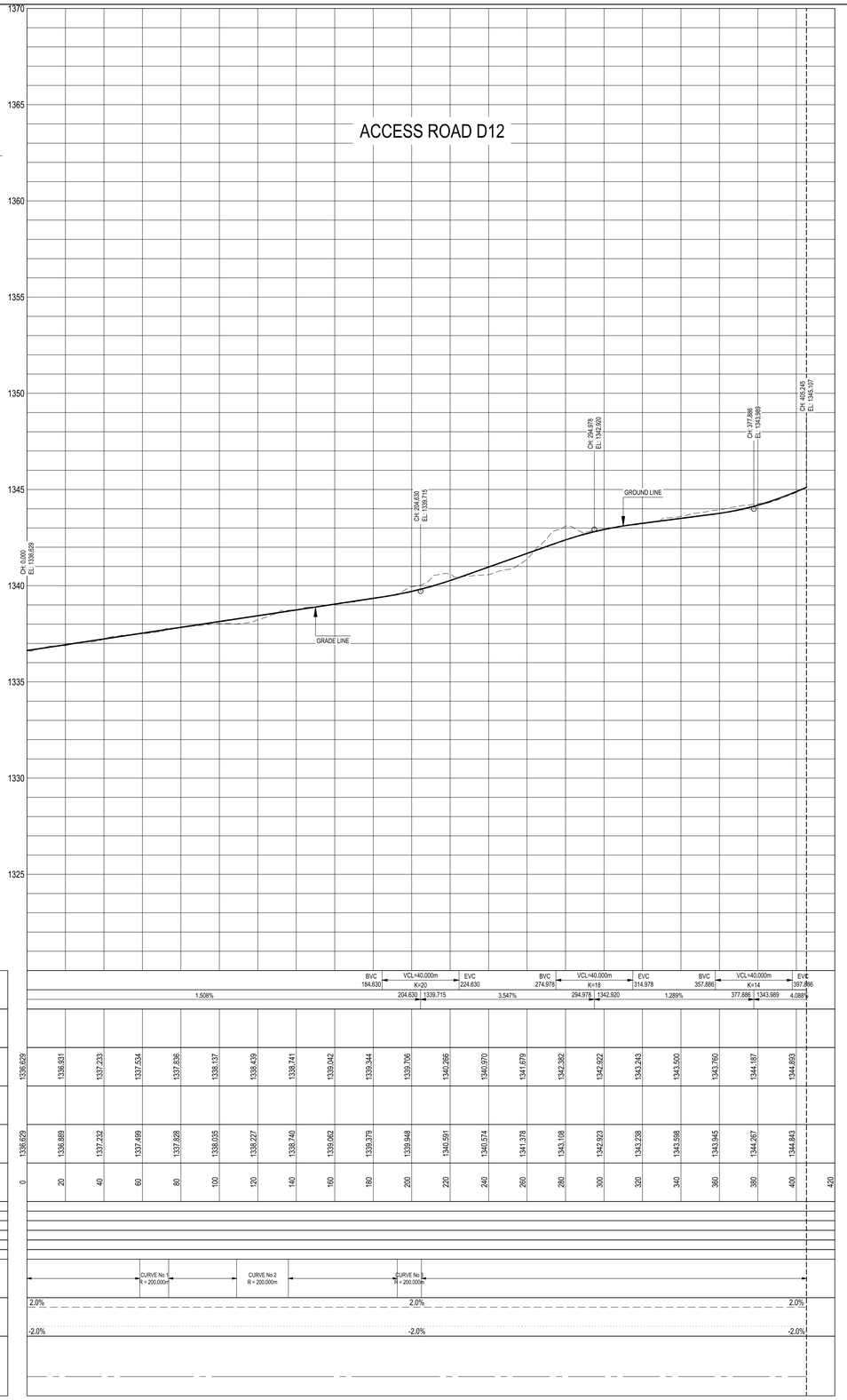
SCALES:
Horizontal 1:1000
Vertical 1:100

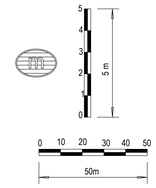
DATUM 1320.000

VERTICAL PROFILE GRADES				1.559%	
FINAL DESIGN ROAD LEVELS	HR LEFT				
	HC ON CENTRE LINE	1338.125	1338.437		
	HR RIGHT				
GROUND LEVELS		1338.125	1338.437		
DISTANCE (m)		0	20	40	60
GUARD RAIL LEFT					
KERB OR PAVING LEFT					
SIDE DRAIN LEFT					
SIDE DRAIN RIGHT					
KERB OR PAVING RIGHT					
GUARD RAIL RIGHT					
HORIZONTAL ALIGNMENT					
SUPERELEVATION	LEFT			2.0%	
	RIGHT			-2.0%	
DRAINAGE Distance (km) Size and Angle		FLOW DIRECTION, 90°, 225°, INCREASING DISTANCE, FLOW DIRECTION			

LONGSECTION HA- ACCESS ROAD D11





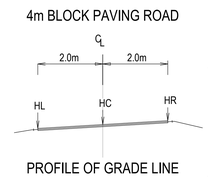


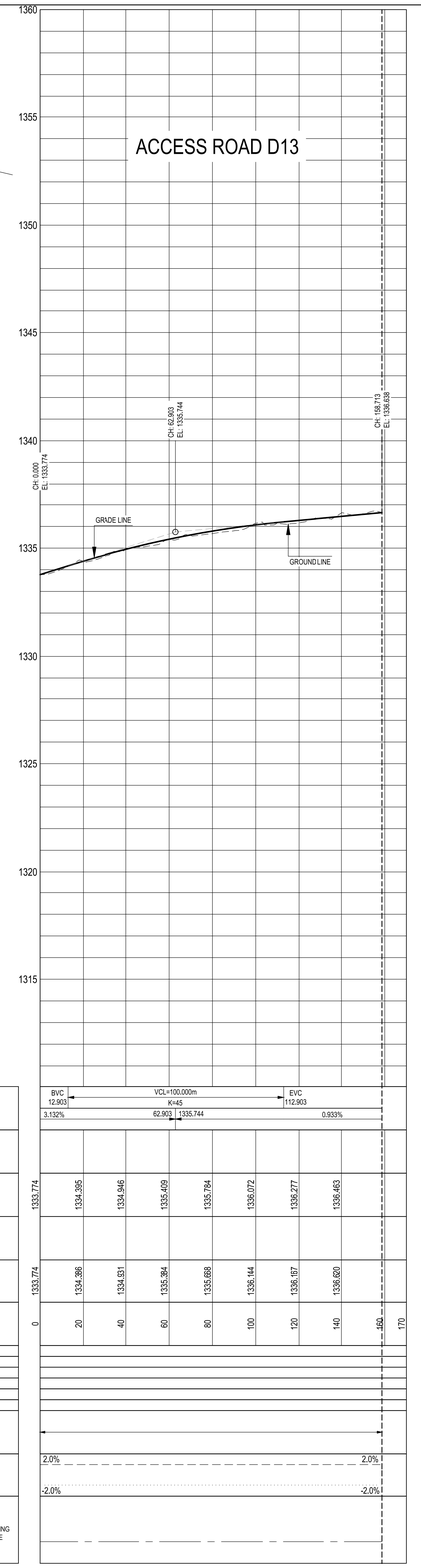
SCALES:
Horizontal 1:1000
Vertical 1:100

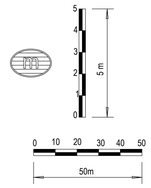
DATUM 1320.000

VERTICAL PROFILE GRADES								BVC 184.630	VCL=40.000m K=20	EVC 224.630		BVC 274.978	VCL=40.000m K=18	EVC 314.978		BVC 357.886	VCL=40.000m K=14	EVC 397.886				
				1.508%				204.630	339.715		3.547%		294.978	342.920	1.289%		377.886	343.989	4.088%			
FINAL DESIGN ROAD LEVELS	HR LEFT																					
	HC ON CENTRE LINE	1336.629	1336.931	1337.233	1337.534	1337.836	1338.137	1338.439	1338.741	1339.042	1339.344	1339.706	1340.266	1340.970	1341.679	1342.382	1342.922	1343.243	1343.500	1343.760	1344.187	1344.493
	HR RIGHT																					
GROUND LEVELS		1336.629	1336.889	1337.232	1337.499	1337.828	1338.035	1338.227	1338.740	1339.092	1339.379	1339.948	1340.591	1340.574	1341.378	1343.108	1342.923	1343.238	1343.598	1343.945	1344.267	1344.843
DISTANCE (m)		0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420
GUARD RAIL LEFT																						
KERB OR PAVING LEFT																						
SIDE DRAIN LEFT																						
SIDE DRAIN RIGHT																						
KERB OR PAVING RIGHT																						
GUARD RAIL RIGHT																						
HORIZONTAL ALIGNMENT									CURVE No 1 R = 200.000m			CURVE No 2 R = 200.000m				CURVE No 3 R = 200.000m						
SUPERELEVATION	LEFT																					
	RIGHT	2.0%																				
		-2.0%																				
DRAINAGE Distance (km) Size and Angle		FLOW DIRECTION, 90°, 225°, INCREASING DISTANCE, FLOW DIRECTION																				

LONGSECTION HA- ACCESS ROAD D12







SCALES:
Horizontal 1:1000
Vertical 1:100

DATUM 1310.000

VERTICAL PROFILE GRADES								BVC 12.903	VCL=100.000m K=45											EVC 112.903			
				3.132%				62.903	335.744										0.933%			
FINAL DESIGN ROAD LEVELS	HR LEFT																					
	HC ON CENTRE LINE	1333.774	1334.395	1334.946	1335.499	1335.784	1336.072	1336.277	1336.463													
	HR RIGHT																					
GROUND LEVELS		1333.774	1334.386	1334.951	1335.384	1335.668	1336.144	1336.167	1336.620													
DISTANCE (m)		0	20	40	60	80	100	120	140	150	170											
GUARD RAIL LEFT																						
KERB OR PAVING LEFT																						
SIDE DRAIN LEFT																						
SIDE DRAIN RIGHT																						
KERB OR PAVING RIGHT																						
GUARD RAIL RIGHT																						
HORIZONTAL ALIGNMENT																						
SUPERELEVATION	LEFT																					
	RIGHT	2.0%																				
		-2.0%																				
DRAINAGE Distance (km) Size and Angle		FLOW DIRECTION, 90°, 225°, INCREASING DISTANCE, FLOW DIRECTION																				

LONGSECTION HA- ACCESS ROAD D13

FOR TENDER ONLY

ON HA- ACCESS ROAD D13

No.	DATE	REVISION	CONSULT. ENG.
T01	29/10/2024	ISSUED FOR RETENDER	
T00	28/02/2022	ISSUE FOR TENDER	

CONSTRUCTION RECORD (AS-BUILT)
WORKS CONTRACT ENGINEER
Name :
Prof. Reg. No. :
Date :
SANRAL PROJECT MANAGER
Name :
Date :

DESIGNED BY
NAME
Prof. Reg. No.
CHECKED BY
NAME
Prof. Reg. No.
DRAWN BY
NAME

CONSULTANT APPROVAL
Name :
Prof. Reg. No. :
Date :

HEAD OFFICE
48 Tambotie Avenue
Val de Grace
Pretoria
0184

PO Box 415
Pretoria 0001
South Africa

Tel: (012) 844 8000

SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
Reg. No. 1998/030664/06
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

NORTHERN REGION
38 Ida Street
Menlo Park
Pretoria
0081

Private Bag X17
Lynnwood Ridge
0040

Tel: (012) 426 6200

ACCEPTANCE
THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING
for the SA NATIONAL ROADS AGENCY SOC LTD.
Date:

PROJECT DESCRIPTION
FOR TRAINING AND CONSTRUCTION MANAGEMENT SERVICES FOR A COMMUNITY DEVELOPMENT PROJECT TO UPGRADE ACCESS ROADS IN AND NEAR KWAMHLANGA TOWNSHIP – MPUMALANGA PROVINCE

DRAWING DESCRIPTION
ACCESS ROADS - LONGITUDINAL SECTION
ACCESS ROADS D11, D12 AND D13

SCALE : AS SHOWN | **SHEET 1 OF 1**

PROJECT NUMBER	**C.002-053-2023/1**	
DRAWING LOCATION DATA	**START**	**END**
ROUTE	-	-
SECTION	-	-
DRAWING km DISTANCE	-	-
DRAWING TYPE	**ROADS - LONG SECTIONS**	
BRIDGE/STRUCTURE No.		
CONSULTANT DRAWING No.	**60487450-4-1-C-BB-204-T-01**	**VER**
SANRAL DOCUMENT #		**T01**