SETTING OUT DATA-HA- Access Road D3
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	DETAILS
L1	0.000	29628.267	2810574.056	L 43.584m
C1	43.584 127.596	29585.262 29543.790 29501.892	2810566.973 2810560.143 2810556.817	R 1000.000m DA 4°48'50" TL 42.030m AL 84.012m
L2	180.096	29449.557	2810552.663	L 52.500m
C2	180.096 194.705	29449.557 29442.128 29439.838	2810552.663 2810552.073 2810548.076	R 30.000m DA 27°54'00" TL 7.452m AL 14.609m
L3	241.542	29396.309	2810522.953	L 46.837m

SETTING OUT DATA-HA- Access Road D4
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	DETAILS
L1	0.000	29147.371	2810505.267	L 80.670m
C1	80.670 155.961	29227.501 29265.343 29302.152	2810496.947 2810491.546 2810501.364	R 200.000m DA 21°34'10" TL 38.097m AL 75.291m
L2	196.507	29341.329	2810511.813	L 40.546m
C2	196.507 210.373	29341.329 29348.030 29354.839	2810511.813 2810513.601 2810514.920	R 200.000m DA 3°58'20" TL 6.936m AL 13.866m
L3	252.614	29396.309	2810522.953	L 42.241m

SETTING OUT DATA-HA- Access Road D5
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	DETAILS
L1	0.000	28959.147	2810553.874	L 186.074m
C1	186.074 203.855	29145.218 29157.540 29155.069	2810554.874 2810554.940 2810542.869	R 10.000m DA 101°52'40" TL 12.322m AL 17.781m
L2	248.658	29146.083	2810498.976	L 44.803m

SETTING OUT DATA-HA- Access Road D17
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	LENGTH (m)
L1	0.000 48.645	28790.768 28791.244	2810067.356 2810055.999	48.645

SETTING OUT DATA-HA- Access Road D17A
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	LENGTH (m)
L1	0.000 75.118	28784.382 28859.498	2810055.965 2810056.428	75.118

SETTING OUT DATA-HA- Access Road D18
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	DETAILS
L1	0.000	29067.659	2810600.451	L 30.494m
C1	30.494 38.743	29098.153 29103.564 29103.107	2810600.624 2810600.654 2810606.046	R 5.000m DA 94°31'20" TL 5.411m AL 8.249m
L2	67.169	29100.706	2810634.370	L 28.426m

SETTING OUT DATA-HA- Access Road D19
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	DETAILS
L1	0.000	29157.698	2810706.104	L 8.031m
C1	8.031 106.496	29165.728 29214.971 29264.162	2810706.240 2810707.073 2810704.673	R 1500.000m DA 3°45'40" TL 49.250m AL 98.465m
L2	190.275	29347.855	2810700.883	L 83.779m

SETTING OUT DATA-HA- Access Road D20
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	DETAILS
L1	0.000	28895.736	2810626.715	L 134.643m
C1	134.643 135.504	29030.287 29030.717 29031.147	2810631.687 2810631.703 2810631.726	R 50.000m DA 0°59'10" TL 0.431m AL 0.861m
L2	167.709	29063.305	2810633.469	L 32.205m
C2	167.709 169.244	29063.305 29064.071 29064.838	2810633.469 2810633.511 2810633.529	R 50.000m DA 1°45'30" TL 0.767m AL 1.535m
L3	206.186	29101.771	2810634.395	L 36.942m
C3	206.186 207.561	29101.771 29102.458 29103.145	2810634.395 2810634.411 2810634.437	R 100.000m DA 0°47'20" TL 0.687m AL 1.375m
L4	260.930	29156.477	2810636.422	L 53.370m
C4	260.930 276.640	29156.477 29166.472 29166.098	2810636.422 2810638.794 2810646.789	R 10.000m DA 90°00'40" TL 10.002m AL 15.710m
L5	310.194	29164.844	2810680.320	L 33.554m
C5	310.194 315.767	29164.844 29164.740 29164.791	2810680.320 2810683.105 2810685.892	R 100.000m DA 3°11'40" TL 2.787m AL 5.573m
L6	336.109	29165.164	2810706.230	L 20.342m

SETTING OUT DATA-HA- Access Road D21
Lo 29° WGS84 DATUM

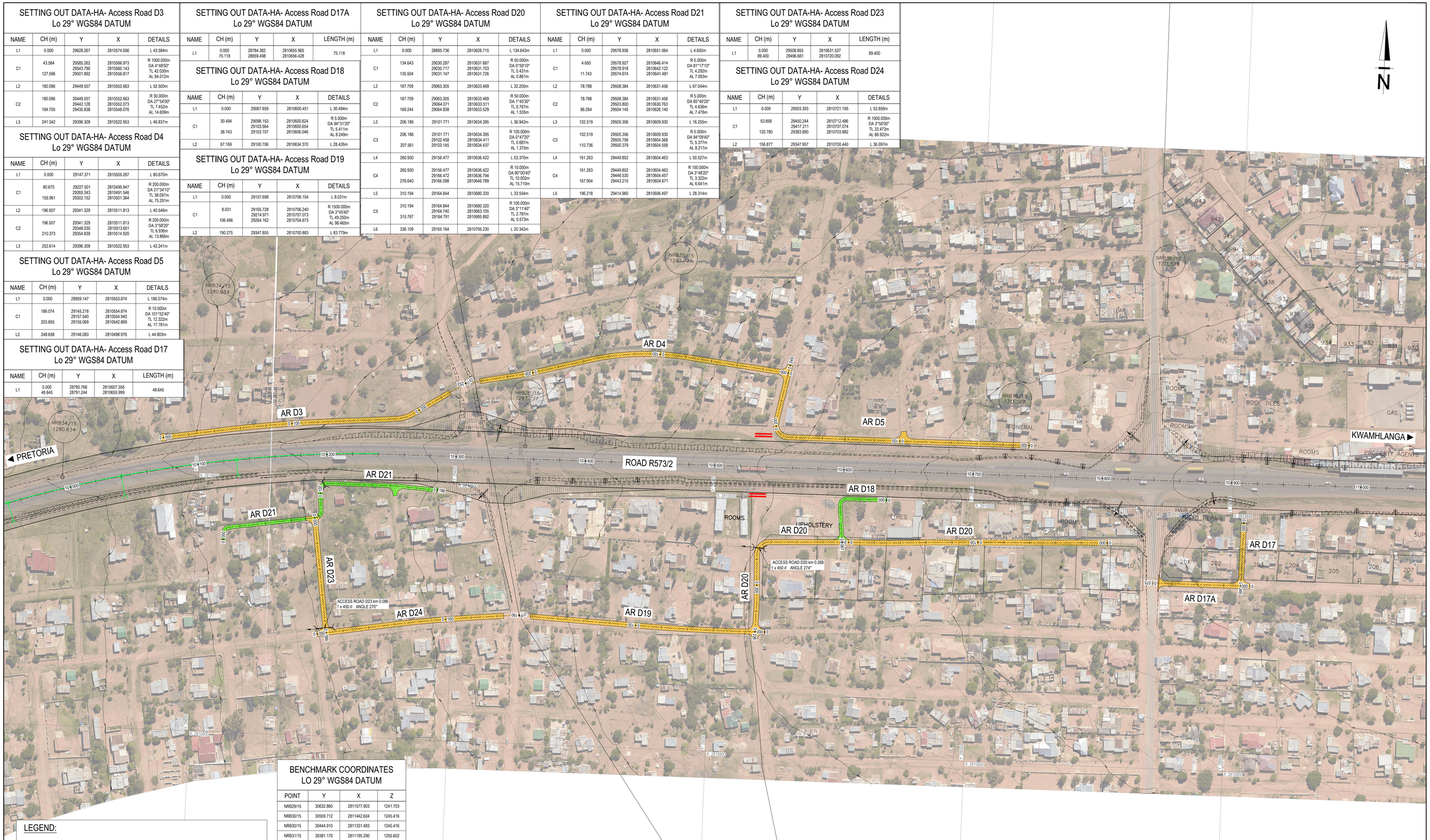
NAME	CH (m)	Y	X	DETAILS
L1	0.000	29578.936	2810651.064	L 4.650m
C1	4.650 11.743	29578.927 29578.918 29574.674	2810646.414 2810642.122 2810641.481	R 5.000m DA 81°17'10" TL 4.290m AL 7.093m
L2	78.788	29508.384	2810631.456	L 67.044m
C2	78.788 86.264	29508.384 29503.800 29504.145	2810631.456 2810630.763 2810626.140	R 5.000m DA 85°40'20" TL 4.636m AL 7.476m
L3	102.519	29505.356	2810609.930	L 16.255m
C3	102.519 110.736	29505.356 29505.756 29500.379	2810609.930 2810604.568 2810604.558	R 5.000m DA 94°09'40" TL 5.377m AL 8.217m
L4	161.263	29449.852	2810604.463	L 50.527m
C4	161.263 167.904	29449.852 29446.530 29443.215	2810604.463 2810604.457 2810604.671	R 100.000m DA 3°48'20" TL 3.322m AL 6.641m
L5	196.218	29414.960	2810606.497	L 28.314m

SETTING OUT DATA-HA- Access Road D23
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	LENGTH (m)
L1	0.000 89.400	29508.855 29496.661	2810631.527 2810720.092	89.400

SETTING OUT DATA-HA- Access Road D24
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	DETAILS
L1	0.000	29503.393	2810721.195	L 53.858m
C1	53.858 120.780	29450.244 29417.211 29383.890	2810712.486 2810707.074 2810703.882	R 1000.000m DA 3°50'00" TL 33.473m AL 66.922m
L2	156.877	29347.957	2810700.440	L 36.097m



BENCHMARK COORDINATES
LO 29° WGS84 DATUM

POINT	Y	X	Z
NRB29/15	30632.860	2811577.903	1241.703
NRB30/15	30559.712	2811442.604	1245.416
NRB30/15	30444.910	2811331.483	1245.416
NRB31/15	30381.170	2811195.290	1255.602
NRB31/15	30266.370	2811084.173	1255.602
NRB32/15	30197.900	2810958.051	1260.455
NRB32/15	30083.100	2810846.933	1260.455
NRB33/15	29975.026	2810762.045	1264.695
NRB33/15	29860.230	2810650.933	1264.695
NRB34/15	29705.023	2810607.872	1280.634
NRB34/15	29590.220	2810496.753	1280.634
NRB35/15	29348.384	2810569.834	1297.777
NRB35/15	29233.580	2810458.713	1297.777
NRB36/15	28971.311	2810557.293	1311.578

LEGEND:

- 6.0 m WIDE 80mm BLOCK PAVED ACCESS ROADS
- 4.0 m WIDE 60mm BLOCK PAVED ACCESS ROADS
- 3.0 m WIDE GRAVEL ACCESS ROADS
- CLOSED ACCESS ROAD

FOR TENDER ONLY

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

CONSTRUCTION RECORD
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 :

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SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

NORTHERN REGION
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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 LAYOUT PLAN
ROAD R573 : km 10.000 - km 11.000

SCALE : 1:1000 | SHEET 3 OF 5

PROJECT NUMBER	C.002-053-2023/1	
DRAWING LOCATION DATA	START	END
ROUTE	-	-
SECTION	-	-
DRAWING km DISTANCE	-	-
DRAWING TYPE	ROADS - LAYOUTS	
BRIDGE/STRUCTURE No.		
CONSULTANT DRAWING No.	PD 60487450-4-1-C-AD-103-T-01	VER T01
SANRAL DOCUMENT #		