SETTING OUT DATA-HA- Access Road D1
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	DETAILS
L1	0.000	30316.981	2811035.416	L 64.555m
C1	64.555 79.899	30359.254 30365.568 30373.081	2811084.205 2811091.492 2811085.447	R 10.000m DA 87°54'50" TL 9.642m AL 15.344m
L2	169.392	30442.805	2811029.344	L 89.493m
C3	169.392 226.323	30442.805 30471.639 30493.196	2811029.344 2811006.143 2811036.226	R 35.000m DA 93°11'50" TL 37.010m AL 56.931m
L3	243.408	30503.147	2811050.113	L 17.084m
C4	243.408 253.922	30503.147 30506.212 30508.811	2811050.113 2811054.390 2811058.566	R 100.000m DA 6°01'30" TL 5.262m AL 10.514m
L4	276.371	30519.900	2811078.485	L 22.449m

SETTING OUT DATA-HA- Access Road D2
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	DETAILS
C1	0.000 124.146	29965.661 30018.827 30067.598	2810705.079 2810737.211 2810775.798	R 1000.000m DA 7°06'50" TL 62.153m AL 124.146m
C2	124.146 146.139	30067.598 30083.001 30083.789	2810775.798 2810787.966 2810768.352	R 10.000m DA 126°00'30" TL 19.629m AL 21.992m
L1	184.709	30085.337	2810729.813	L 38.570m

SETTING OUT DATA-HA- Access Road D22
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	LENGTH (m)
L1	0.000 44.977	30369.895 30327.294	2811250.206 2811264.633	44.977

SETTING OUT DATA-HA- Access Road D25
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	DETAILS
L1	0.000	29905.844	2810723.132	L 26.085m
C2	26.085 38.070	29928.548 29934.484 29933.559	2810735.975 2810739.333 2810746.090	R 10.054m DA 68°18'10" TL 6.820m AL 11.986m
L2	86.574	29926.977	2810794.145	L 48.503m

SETTING OUT DATA-HA- Access Road D26
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	LENGTH (m)
L1	0.000 76.822	29927.823 29852.209	2810787.967 2810774.395	76.822

SETTING OUT DATA-HA- Access Road D27
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	DETAILS
L1	0.000	29992.746	2810813.138	L 73.590m

SETTING OUT DATA-HA- Access Road D28
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	DETAILS
C1	0.000 11.220	30280.333 30283.151 30279.313	2811087.367 2811081.751 2811076.776	R 10.000m DA 64°17'00" TL 6.283m AL 11.220m
L1	29.236	30268.311	2811062.509	L 18.016m
C2	29.236 35.403	30268.311 30266.366 30263.321	2811062.509 2811059.987 2811059.055	R 10.000m DA 35°20'00" TL 3.185m AL 6.167m

SETTING OUT DATA-HA- Access Road D29
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	DETAILS
C1	0.000 18.976	30296.866 30305.073 30307.129	2811186.002 2811191.666 2811201.423	R 25.000m DA 43°29'20" TL 9.971m AL 18.976m
L1	48.549	30313.228	2811230.361	L 29.574m

SETTING OUT DATA-HA- Access Road D30
Lo 29° WGS84 DATUM

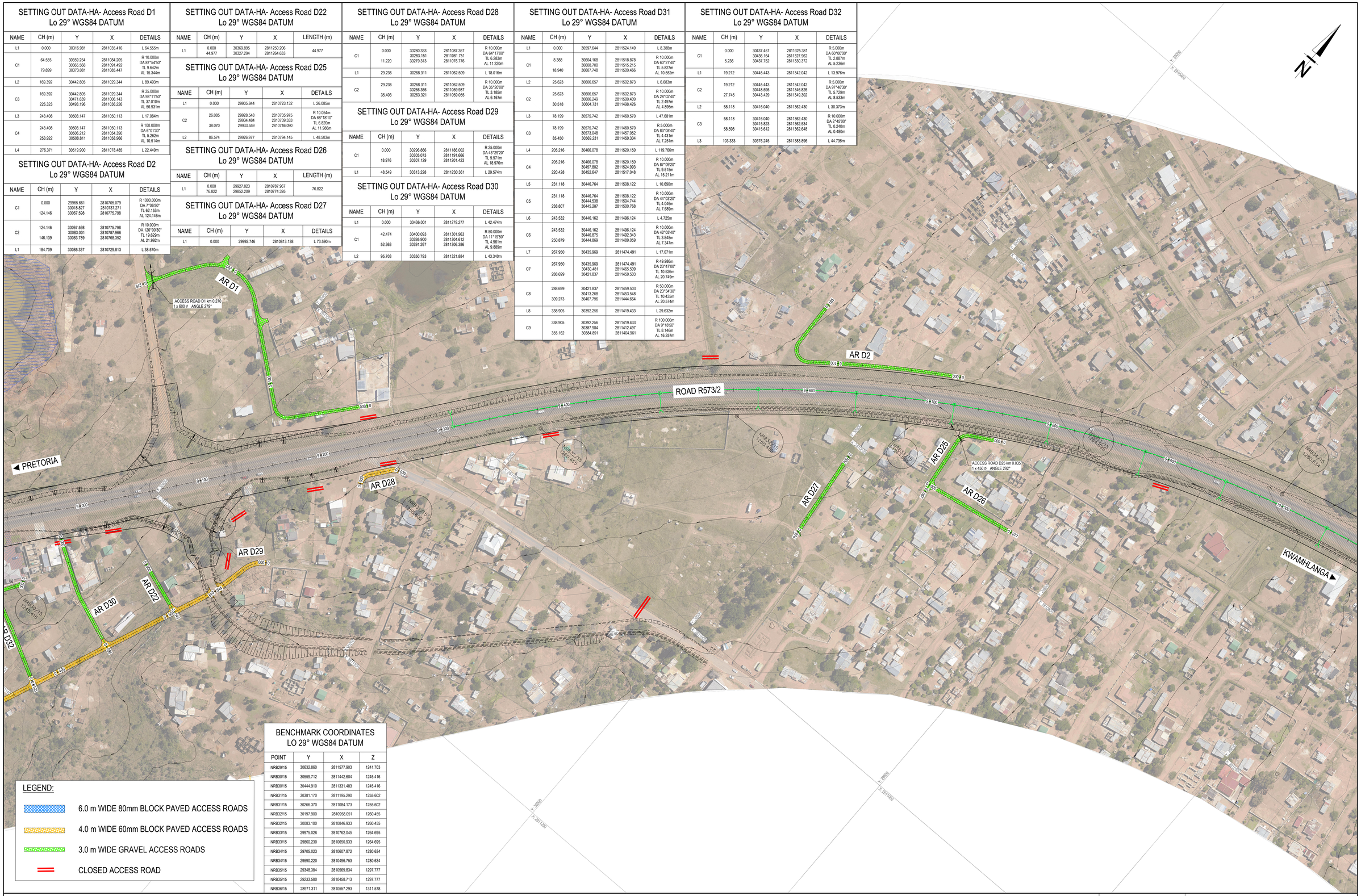
NAME	CH (m)	Y	X	DETAILS
L1	0.000	30436.001	2811279.277	L 42.474m
C1	42.474 52.363	30400.093 30396.900 30391.267	2811301.963 2811304.612 2811306.386	R 50.000m DA 11°19'50" TL 4.961m AL 9.889m
L2	95.703	30350.793	2811321.884	L 43.340m

SETTING OUT DATA-HA- Access Road D31
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	DETAILS
L1	0.000	30597.644	2811524.149	L 8.388m
C1	8.388 18.940	30604.168 30608.700 30607.748	2811518.878 2811515.215 2811509.486	R 10.000m DA 60°27'40" TL 5.827m AL 10.552m
L2	25.623	30606.657	2811502.873	L 6.683m
C2	25.623 30.518	30606.657 30606.249 30604.731	2811502.873 2811500.409 2811498.426	R 10.000m DA 28°02'40" TL 2.497m AL 4.895m
L3	78.199	30575.742	2811460.570	L 47.681m
C3	78.199 85.450	30575.742 30573.048 30569.231	2811460.570 2811457.052 2811459.304	R 5.000m DA 83°05'40" TL 4.431m AL 7.251m
L4	205.216	30466.078	2811520.159	L 119.766m
C4	205.216 220.428	30466.078 30457.882 30452.647	2811520.159 2811524.993 2811517.048	R 10.000m DA 87°09'20" TL 9.515m AL 15.211m
L5	231.118	30446.764	2811508.122	L 10.690m
C5	231.118 238.807	30446.764 30444.538 30445.287	2811508.122 2811504.744 2811500.768	R 10.000m DA 44°03'20" TL 4.046m AL 7.689m
L6	243.532	30446.162	2811496.124	L 4.725m
C6	243.532 250.879	30446.162 30446.875 30444.869	2811496.124 2811492.343 2811489.059	R 10.000m DA 42°05'40" TL 3.848m AL 7.347m
L7	267.950	30435.969	2811474.491	L 17.071m
C7	267.950 288.699	30435.969 30430.481 30421.837	2811474.491 2811465.509 2811458.503	R 49.986m DA 23°47'00" TL 10.526m AL 20.749m
C8	288.699 309.273	30421.837 30413.268 30407.796	2811458.503 2811453.548 2811444.664	R 50.000m DA 23°34'30" TL 10.435m AL 20.574m
L8	338.905	30392.256	2811419.433	L 29.632m
C9	338.905 355.162	30392.256 30387.984 30384.891	2811419.433 2811412.497 2811404.961	R 100.000m DA 9°18'50" TL 8.146m AL 16.257m

SETTING OUT DATA-HA- Access Road D32
Lo 29° WGS84 DATUM

NAME	CH (m)	Y	X	DETAILS
C1	0.000 5.236	30437.457 30436.164 30437.752	2811325.381 2811327.962 2811330.372	R 5.000m DA 60°00'00" TL 2.887m AL 5.236m
L1	19.212	30445.443	2811342.042	L 13.976m
C2	19.212 27.745	30445.443 30448.595 30443.429	2811342.042 2811346.826 2811349.302	R 5.000m DA 97°46'30" TL 5.729m AL 8.533m
L2	58.118	30416.040	2811362.430	L 30.373m
C3	58.118 58.598	30416.040 30415.823 30415.612	2811362.430 2811362.534 2811362.648	R 10.000m DA 2°45'00" TL 0.240m AL 0.480m
L3	103.333	30376.245	2811383.896	L 44.735m



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 9.000 - km 10.000

SCALE : 1:1000 SHEET 2 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-102-T-01	VER T01
SANRAL DOCUMENT #		