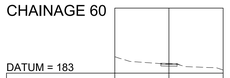
CHAINAGE 60

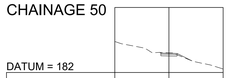
DATUM = 183



OFFSET	-5.000	-3.618	-0.328	1.498	5.000
ELEVATION	184.514	184.084	183.851 183.857	183.602	183.493 183.290

CHAINAGE 50

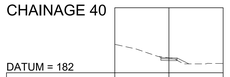
DATUM = 182



OFFSET	-5.000	-4.377	-2.231 -1.545 -0.076	2.264	3.826 5.000
ELEVATION	184.860 184.851	184.248 183.817 183.809		183.015	182.690 182.322

CHAINAGE 40

DATUM = 182



OFFSET	-5.000	-3.013	-1.013 0.160	1.339	3.568 5.000
ELEVATION	184.626	184.191	183.511 183.384	182.827	182.876 182.855

CHAINAGE 30

DATUM = 181

OFFSET	-5.000	-2.649	-1.347 -0.604	0.827 1.683	5.000
ELEVATION	183.788	183.376	182.944 182.692	182.558 182.390	181.475

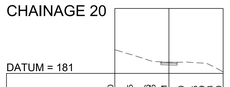
CHAINAGE 100

DATUM = 186

OFFSET	-4.933 -4.393	-3.073	-0.823	0.402	3.065	5.000
ELEVATION	187.394 187.855	187.770	187.175	187.080	187.558	186.948

CHAINAGE 20

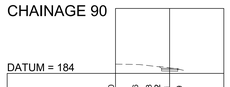
DATUM = 181



OFFSET	-5.000	-3.195	-1.108 -1.008	-0.061	1.520	2.765 4.428	5.000
ELEVATION	183.186	182.550	182.137 182.137	182.024	182.035	181.996 181.948	181.137

CHAINAGE 90

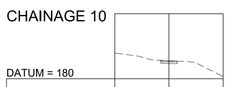
DATUM = 184



OFFSET	-5.000	-2.766	-1.528 -1.203	0.141	1.289
ELEVATION	184.859	184.819	184.674 184.670	184.483	184.278

CHAINAGE 10

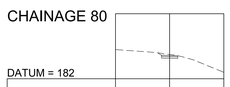
DATUM = 180



OFFSET	-5.000 -4.273	-2.761	-1.706 -1.403	-0.324	1.464	2.396	5.000
ELEVATION	182.367 182.275	182.072	181.756 181.756	181.431	181.607	181.510	180.205

CHAINAGE 80

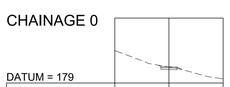
DATUM = 182



OFFSET	-5.000	-1.610 -1.555	-0.222	1.155	2.213	5.000
ELEVATION	184.691	184.443 184.439	184.266 184.270	184.030	183.734	182.588

CHAINAGE 0

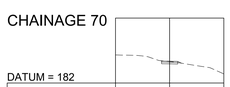
DATUM = 179



OFFSET	-5.000	-2.940	0.527 1.295	3.609	5.000
ELEVATION	182.001	180.895	180.405 180.260	179.985	179.391

CHAINAGE 70

DATUM = 182

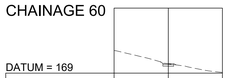


OFFSET	-5.000	-2.928 -2.928	-1.021	0.053	3.175 4.158	5.000
ELEVATION	184.598	184.546 184.546	184.087	183.984	183.999 183.221	182.844

FOOTPATH 4

CHAINAGE 60

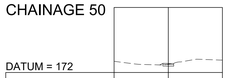
DATUM = 169



OFFSET	-5.000	-1.844	-0.705	1.602 2.400	3.674	5.000
ELEVATION	171.090	170.368 170.041		169.640 169.453	169.211	169.068

CHAINAGE 50

DATUM = 172



OFFSET	-5.000	-2.834	-0.436	0.892	2.596	5.000
ELEVATION	173.027	172.795	172.684	172.966	173.224	173.139

CHAINAGE 40

DATUM = 175

OFFSET	-5.000	-3.239	-1.020 -1.020	0.333 0.738	5.000
ELEVATION	176.487	176.052	175.597 175.597	175.556 175.549	175.440

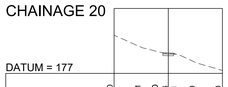
CHAINAGE 30

DATUM = 176

OFFSET	-5.000 -4.712	-2.392	-0.886 -0.254	0.708	3.859	5.000
ELEVATION	178.149 178.111	178.368	177.742 177.608	177.538	176.811	176.195

CHAINAGE 20

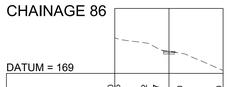
DATUM = 177



OFFSET	-5.000	-2.421	-0.830	0.106	0.901	2.600	5.000
ELEVATION	180.522	179.374	178.971 178.812	178.764	177.972	177.273

CHAINAGE 86

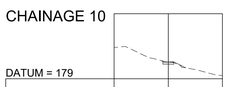
DATUM = 169



OFFSET	-5.000 -4.385	-1.882 -0.897	1.390	5.000
ELEVATION	172.269 172.103	171.778 171.774	170.814	169.270

CHAINAGE 10

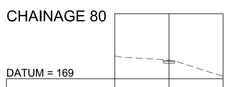
DATUM = 179



OFFSET	-5.000	-3.965	-1.578 -1.475	-0.044	1.188	2.566	4.373 5.000
ELEVATION	181.880 181.976	180.921 180.888	180.665	180.172	179.636	179.354 179.289

CHAINAGE 80

DATUM = 169



OFFSET	-5.000 -4.398	-1.252	0.111	1.099	3.988	5.000
ELEVATION	171.102 170.997	170.805	170.703	170.458	169.532	169.233

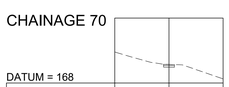
CHAINAGE 0

DATUM = 182

OFFSET	-5.000	-3.226 -2.591	-0.623	0.010	2.231	3.344	5.000
ELEVATION	183.392	183.038 183.257	182.980	182.984 182.995	182.584	182.365	182.478

CHAINAGE 70

DATUM = 168



OFFSET	-5.000	-3.474	-1.685 -1.684	0.376 0.475	1.240	5.000
ELEVATION	170.864	170.405	169.912 169.912	169.724	169.677	168.383

FOOTPATH 5

FOR TENDER

GENERAL NOTES

NOTES :

1. PROVE ALL SERVICES PRIOR TO CONSTRUCTION.
2. ALL LEVELS, DIMENSIONS AND SETTING OUT TO BE VERIFIED ON SITE.
3. ALL SETTING OUT TO BE UNDERTAKEN BY A REGISTERED PROFESSIONAL LAND SURVEYOR.
4. ALL SURVEY AND SETTING OUT DATA PROVIDED IS BASED ON (WGS 84).
5. ALL WORK AREAS TO BE REINSTATED (PREMIX, CONCRETE, ETC.)
6. MUNICIPALITY TO EXECUTE ALL CONNECTIONS INTO MUNICIPAL LINES.
7. UNLESS OTHERWISE AGREED WITH ENGINEER, CONTRACTOR TO SUPPLY ENGINEER WITH RESULTS OF COMPACTION TESTS, AND WHEN APPLICABLE, PERCENTAGE STABILIZATION TESTS ON BACKFILL.
8. ALL WORKS IN ACCORDANCE WITH UMNGENI LOCAL MUNICIPALITY SPECIFICATIONS,SANS 1200 AND COTO 2020.
9. THE ENGINEER REQUIRES 24 HOURS NOTICE FOR ALL INSPECTIONS.
10. THIS DRAWING IS FOR INFORMATION PURPOSES IN ORDER TO ASSIST THE CONTRACTOR FOR THE SETTING OUT AND CONSTRUCTION OF THE WORKS. IT MUST BE NOTED THAT SITE CONDITIONS MAY CHANGE ON SITE AND CONSTRUCTION OF WORKS MAY BE AFFECTED. THE CONTRACTOR IS TO TIMEOUSLY INFORM THE ENGINEER OF ANY CHANGES ENCOUNTERED ON SITE PRIOR TO UNDERTAKING ANY WORK.

MATERIAL COMPLIANCE TESTING :

1. RESULTS OF COMPACTION AND CBR TESTS ON INSITU SUB-BASE MATERIAL AND FILLED SUB-BASE MATERIAL MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE THE UPPER LAYER WORKS ARE IMPORTED TO THE SITE AND PLACED.
2. CONCRETE CUBE TEST RESULTS FOR 7 AND 28 DAYS FOR EACH SEPERATE CONCRETE ITEM TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
3. PRIOR TO IMPORTING ANY MATERIAL ONTO SITE, MATERIALS CLASSIFICATIONS AND OR ASPHALT MIS DESIGNS AND OR CONCRETE FOR THE ALL REQUIRED MATERIALS ARE TO BE FIRST SUBMITTED TO THE ENGINEER FOR APPROVAL.
4. ALL MATERIALS TESTING ARE TO BE UNDERTAKEN BY AN ACCREDITED SANAS ACREDITED LABORATORY.

FREQUENCY OF TESTS :

1. CBR TESTS 1 PER 50m².
2. COMPACTION TESTS 1 PER 50m² NOTE : COMPACTION TESTS WILL BE REQUIRED FOR EACH OF THE VARYING LAYER THAT IS INSITU OR IMPORTED AND COMPACTED IN PLACE.

RETAINING WALL :

1. ALL LEVELS AND DIMENSIONS TO BE CHECKED ON SITE.
2. ALL CONCRETE WORK IS TO COMPLY WITH SANS 1200G.
3. CONCRETE GRADE :- FOUNDATION 25 / 19
4. ALL FOUNDATION EXCAVATIONS ARE TO BE INSPECTED BY THE ENGINEER PRIOR TO CASTING OF CONCRETE.
5. ALL REINFORCING FIXING IS TO BE INSPECTED BY THE ENGINEER PRIOR TO CASTING OF CONCRETE.
6. SIX CONCRETE CUBES TO BE TAKEN PER BATCH. THREE CUBES TO BE TESTED AT SEVEN DAYS, THE REMAINDER AT TWENTY EIGHT DAYS. THE RESULTS ARE TO BE FORWARDED TO THE ENGINEER FOR REVIEW AND APPROVAL.
7. SET BOTTOM ROW OF BLOCKS IN WET CONCRETE.
8. ALL BACKFILL TO BE COMPACTED TO 93% MOD AASHTO DENSITY
9. STORM WATER BEHIND THE TOP OF THE WALL TO BE MANAGED IN SUCH A MANNER AS TO OBVIATE SCOUR BEHIND OR OVER - TOPPING OF THE WALL.

SIDEWALKS :

1. ALL LEVELS, DIMENSIONS AND SETTING OUT DETAILS TO BE VERIFIED BY CONSULTANT AND CONTRACTORS ON SITE PRIOR TO CONSTRUCTION.
2. THE POSITIONS OF DRIVEWAY ACCESSES ARE TO BE DETERMINED IN CONSULTATION WITH THE LOCAL COMMUNITY / RESIDENTS AS EXACT POSITIONS MAY VARY ONSITE.
3. CONCRETE WEDGES ACCORDING TO CIVIL ENGINEERS DETAILS AND SPECIFICATIONS MAY BE USED IN PLACE OF SURFACED BELL-MOUTHS FOR ACCESSES SERVING SINGLE RESIDENTIAL PROPERTIES.
4. EXISTING ROAD SIGNS, SERVICES AND FENCING AFFECTED BY CONSTRUCTION ARE TO BE REMOVED/RELOCATED ON INSTRUCTION BY THE CIVIL ENGINEER.
5. NEW FILLS AND EXPOSED CUTS ARE TO BE TOP-SOILED AND VEGETATED IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.

KERBS :

1. ALL CAST IN SITU CONCRETE IS TO BE GRADE 20 / 19.
2. THE SURFACES OF THE CAST IN SITU CHANNEL / FILLET ARE TO HAVE A STEEL FLOAT FINISH.
3. EXPANSION JOINTS TO BE FORMED THROUGH THE KERBING, CHANNEL / FILLET AND FOUNDATIONS AT INTERVALS NOT EXCEEDING 18.0m.
4. CONTRACTION JOINTS TO BE FORMED THROUGH THE CHANNEL / FILLET AT 20m INTERVALS.
5. WHERE KERB RADIUS IS LESS THAN 25m THE KERB LENGTH SHALL BE 300mm. WHERE THE KERB RADIUS IS LESS THAN 2m THE KERBING SHALL BE CAST IN SITU.
6. PRECAST KERBS ARE TO BE LAID WITH A 13mm GAP BETWEEN KERBS, WHICH SHALL THEN BE FILLED WITH A CEMENT MORTAR.
7. EXTRUDED KERBS.
   a) ASPHALT KERB:
   1. ASPHALT TO COMPLY WITH THE REQUIREMENTS OF SANS.
   b) CONCRETE KERB:
   1. THE CONCRETE IS TO HAVE A CUBE STRENGTH OF 20MPa AT 28 DAYS.
   2. THE CONCRETE MIX DESIGN IS TO BE APPROVED BY THE ENGINEER.
   3. CONTRACTION JOINTS TO BE FORMED AT 2.0m INTERVALS.
   4. EXPANSION JOINTS ARE TO FORMED AT 6.0m INTERVALS ON STRAIGHTS AND 2.0m INTERVALS WHERE THE KERB RADIUS IS LESS THAN 50m.

SCALE (mm)

No.	REFERENCE DRAWINGS
631/SHEMBE/904	TYPICAL DRY STACK RETAINING WALL DETAILS
631/SHEMBE/903-2	TYPICAL DETAILS SHEET 2
631/SHEMBE/903-1	TYPICAL DETAILS SHEET 1
631/SHEMBE/902-3	ROAD 1 CROSS SECTIONS
631/SHEMBE/902-2	FOOTPATH 4 & 5 CROSS SECTIONS
631/SHEMBE/902-1	FOOTPATH 1,2 & 3 CROSS SECTIONS
631/SHEMBE/901-3	ROAD 1 LONGITUDINAL SECTION
631/SHEMBE/901-2	FOOTPATH 3,4 & 5 LONGITUDINAL SECTION
631/SHEMBE/901-1	FOOTPATH 1 & 2 LONGITUDINAL SECTION
631/SHEMBE/900	FOOTPATHS AND ROAD LAYOUT AND SETTING OUT COORDINATES

REV	DESCRIPTION	BY	DATE
T1	ISSUED FOR TENDER	A.D	11/02/2026

Professional person : L. SINGH PrTech Eng — Registration : 201370301

CLIENT

eTHEKWINI MUNICIPALITY

PROJECT

PROVISION OF INCREMENTAL SERVICES WITHIN THE NORTHERN REGION: SHEMBE EKUPHAKAMENI WARD 55

DETAILS

FOOTPATHS 4 & 5
CROSS SECTIONS

MAP AFRICA CONSULTING
SABS ISO 9001 CESA
SUITE GR01A, GROUND FLOOR, BUSINESS PARTNERS CENTRE
23 JAN HOFMEYER ROAD, WESTVILLE, 3630
e-mail : admin@mapafrica.co.za
FAX (031) 3092929 TEL. (031) 3095831

DESIGNED	L.S	COPYRIGHT RESERVED	SCALES H 1: 200 V 1: 200
DRAWN	A.D		
APPROVED	L.S	PL	DATE 11/02/2026

CONTRACT No. 4V-36930

DRAWING No. 631/SHEMBE/902-2 REV T1