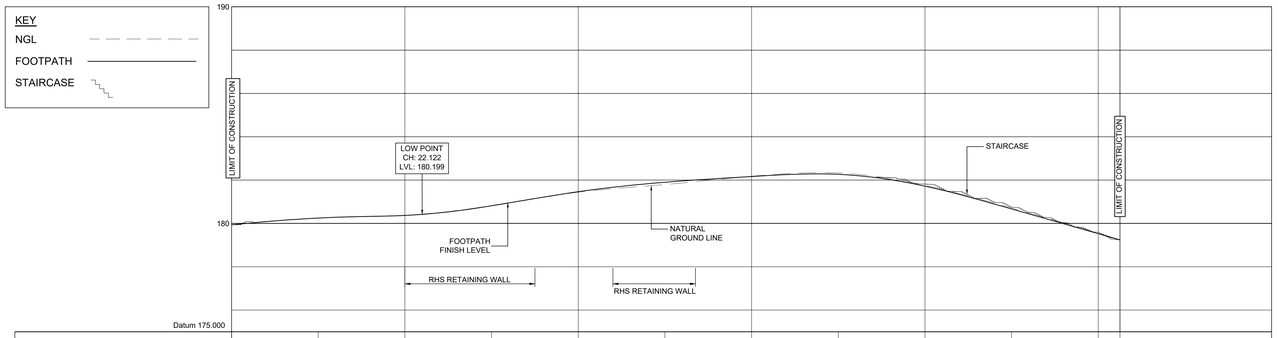
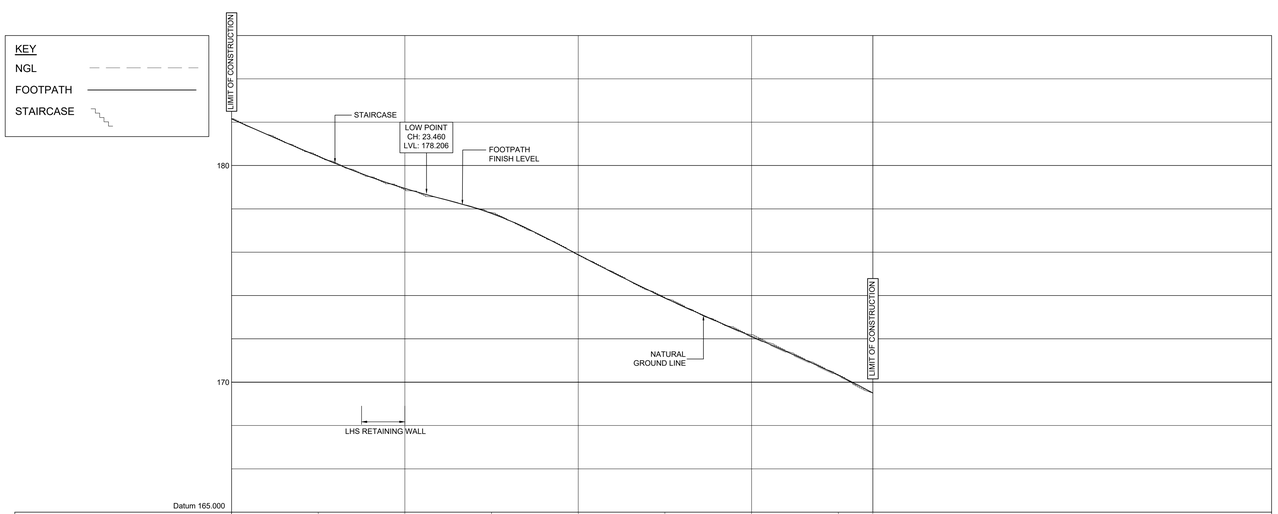


C/L/ Peg Levels		179.934	180.349	180.238	180.796	181.521	181.763	182.205	182.479	181.848	180.712	179.576	179.240
Vertical Alignment / Design Road Levels	Left Edge	179.949	180.370	180.249	180.796	181.534	181.944	182.182	182.419	181.828	180.685	179.542	179.255
	Centre Line	179.934	180.355	180.234	180.781	181.519	181.929	182.167	182.404	181.813	180.670	179.527	179.240
	Right Edge	179.919	180.340	180.219	180.766	181.504	181.914	182.152	182.389	181.798	180.655	179.512	179.225
Grades		1.496	180.149	11.030	180.380	22.122	180.199	43.437	181.773	73.995	182.499		
		14.372 %		2.423 %		-1.632 %		7.384 %		2.376 %		-11.430 %	
Vertical Curves		1.496		11.030		22.122		43.437		73.995			
Superelevation		2.000 LHS											
		-2.000 RHS											
Horizontal Curves		Direction 178.15.44		Direction 213.14.37		Direction 203.49.06		Direction 209.03.17		Direction 181.46.57		Direction 170.47.56	Direction 162.18.12	Direction 170.03.54	Direction 180.35.32
Chainages	0	10		20		30		40		50		60	70	80	90	100	102.508

FOOTPATH 3 : CH0 TO CH 102.508



C/L/ Peg Levels		182.165	180.381	178.743	178.069	175.941	173.822	172.089	170.298	169.500	
Vertical Alignment / Design Road Levels	Left Edge	182.143	180.364	178.748	178.011	175.844	173.823	172.100	170.359	169.485	
	Centre Line	182.153	180.379	178.763	178.026	175.859	173.838	172.115	170.374	169.500	
	Right Edge	182.163	180.394	178.778	178.041	175.874	173.853	172.130	170.389	169.515	
Grades		4.007	181.602	10.160	180.346	23.460	178.206	28.781	178.223	32.842 35.045	177.602 176.941	46.117	174.524	58.210	172.389	66.779	171.079
		-6.925 %		-20.413 %		-16.090 %		0.319 %		-16.126 %	-15.634 %	-21.830 %		-17.655 %		-15.288 %		-21.873 %
			-0.597 %							-15.621 %								
Vertical Curves		1.997	4.007	10.160	23.460	28.781	32.842	35.045	46.117	58.210	66.779		
Superelevation		2.000 RHS											
		-2.000 LHS											
Horizontal Curves		Direction 267.09.19	Direction 258.11.30	Direction 246.43.45	Direction 265.21.25	Direction 289.42.09	Direction 276.03.22	Direction 274.39.36	Direction 269.22.16				
Chainages	0	10	20	30	40	50	60	70	73.998				

FOOTPATH 4 : CH0 TO CH 73.998

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/BEXT/904	TYPICAL DRY STACK RETAINING WALL DETAILS
631/BEXT/903	TYPICAL DETAILS
631/BEXT/902-2	FOOTPATH 4,5 & 6 CROSS SECTIONS
631/BEXT/902-1	FOOTPATH 1,2 & 3 CROSS SECTIONS
631/BEXT/901-3	FOOTPATH 5 & 6 LONGITUDINAL SECTION
631/BEXT/901-2	FOOTPATH 3 & 4 LONGITUDINAL SECTION
631/BEXT/901-1	FOOTPATH 1 & 2 LONGITUDINAL SECTION
631/BEXT/900	FOOTPATHS LAYOUT AND DETAIL

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: B EXTENSION & CURNICK NDLOVU

DETAILS

FOOTPATHS 3 AND 4 LONGITUDINAL SECTION

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DESIGNED	L.S	COPYRIGHT RESERVED	SCALES H 1: 250 V 1:100
DRAWN	A.D		
APPROVED	L.S	PL	DATE 11/02/2026

CONTRACT No. 4V- 36924

DRAWING No. 631/BEXT/901-2 REV T1