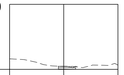
CHAINAGE 60

DATUM = 222



OFFSET	-5.000	-3.630	-2.616	-1.818	-0.203	0.839	2.512	4.188	5.000
ELEVATION	222.969	222.899	222.652	222.412	222.286	222.272	222.349	222.363	222.391

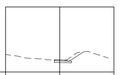
CHAINAGE 50

DATUM = 220

OFFSET	-5.000	-2.848	-1.031	-0.488	0.248	2.613	3.472	5.000
ELEVATION	221.037	220.986	220.857	220.825	220.831	220.923	220.932	220.937

CHAINAGE 40

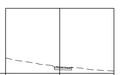
DATUM = 218



OFFSET	-5.000	-3.786	-2.644	-1.416	0.858	1.627	2.566	4.464
ELEVATION	219.618	219.447	219.263	219.224	219.175	219.194	219.898	219.287

CHAINAGE 30

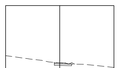
DATUM = 218



OFFSET	-5.000	-4.161	-2.205	-0.854	0.230	1.504	2.033	3.906	5.000
ELEVATION	219.418	219.217	218.931	218.739	218.534	218.510	218.392	218.350	218.206

CHAINAGE 20

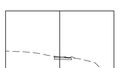
DATUM = 218



OFFSET	-5.000	-3.046	-1.664	-0.944	0.345	0.918	2.180	3.291	5.000
ELEVATION	219.384	219.115	218.947	218.795	218.693	218.601	218.582	218.475	218.292

CHAINAGE 10

DATUM = 218



OFFSET	-5.000	-3.788	-2.703	-1.992	-0.871	0.025	0.740	2.693	4.083	5.000
ELEVATION	220.293	220.228	220.178	220.084	219.962	219.763	219.709	219.564	219.392	219.435	219.078

CHAINAGE 80

DATUM = 223

OFFSET	-5.000	-3.389	-2.229	-0.627	0.000	1.779	3.617	5.000
ELEVATION	224.169	224.071	224.169	224.115	224.094	224.094	224.130	224.180

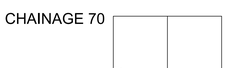
CHAINAGE 0

DATUM = 220

OFFSET	-5.000	-1.822	1.684	2.416	4.127	5.000
ELEVATION	222.013	221.496	220.981	220.929	220.738	220.644

CHAINAGE 70

DATUM = 223

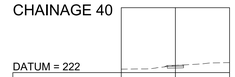


OFFSET	-5.000	-1.385	-0.306	1.432	2.250	3.478
ELEVATION	224.131	223.592	223.487	223.504	223.570	223.610

FOOTPATH 1

CHAINAGE 40

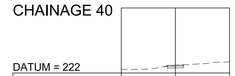
DATUM = 222



OFFSET	-5.000	-2.757	-1.769	-0.033	2.404	5.000
ELEVATION	222.327	222.345	222.410	222.674	222.800	222.927

CHAINAGE 40

DATUM = 222



OFFSET	-5.000	-3.212	-2.376	-1.651	-0.041	2.103	3.667	5.000
ELEVATION	222.327	222.341	222.373	222.489	222.716	222.836	222.988	223.014

CHAINAGE 30

DATUM = 223

OFFSET	-5.000	-3.147	-2.338	-1.580	0.107	1.426	4.134	5.000
ELEVATION	223.657	224.009	223.921	223.701	223.763	223.917	223.945	223.976

CHAINAGE 20

DATUM = 224

OFFSET	-5.000	-4.047	-2.376	-1.449	-0.175	1.460	3.147	3.980	5.000
ELEVATION	225.034	225.109	225.067	224.907	224.791	224.749	225.004	224.836	224.907

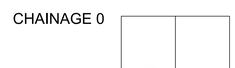
CHAINAGE 10

DATUM = 225

OFFSET	-5.000	-1.966	-0.771	0.141	0.662	2.045	3.434	3.934	5.000
ELEVATION	226.060	225.971	225.930	225.802	225.760	225.708	225.795	225.795	225.619

CHAINAGE 0

DATUM = 225



OFFSET	-5.000	-2.664	-1.364	-0.488	0.163	1.370	4.936
ELEVATION	226.005	226.012	226.007	225.957	225.887	225.993	225.955

FOOTPATH 2

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 8.0m INTERVALS ON STRAIGHTS AND 2.0m INTERVALS WHERE THE KERB RADIUS IS LESS THAN 50m.

SCALE (mm)

No.	REFERENCE DRAWINGS
631/RICH/904	TYPICAL DRY STACK RETAINING WALLS
631/RICH/903	TYPICAL DETAILS
631/RICH/902-3	ROADS CROSS SECTIONS
631/RICH/902-2	ROADS CROSS SECTIONS
631/RICH/901-3	ROADS LONG SECTIONS
631/RICH/901-2	ROADS LONG SECTIONS
631/RICH/901-1	FOOTPATHS LONG SECTIONS
631/RICH/900	ROADS & FOOTPATHS LAYOUT & DETAILS

REV	DESCRIPTION	BY	DATE
T1	ISSUED FOR TENDER	Y.R.	11/02/2026

Professional person : L Singh — Registration : 201370301

CLIENT

ETHEKWINI MUNICIPALITY

PROJECT

eTHEKWINI: PROVISION OF INCREMENTAL SERVICES TO INFORMAL SETTLEMENTS: RICHMOND FARM B

DETAILS

FOOTPATHS 1 & 2
CROSS SECTION

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DRAWN	Y.R.		AS SHOWN
APPROVED	L.S	PL	DATE 11/02/2026

CONTRACT No. 4V-34029

DRAWING No. 631/RICH/902-1 REV T1