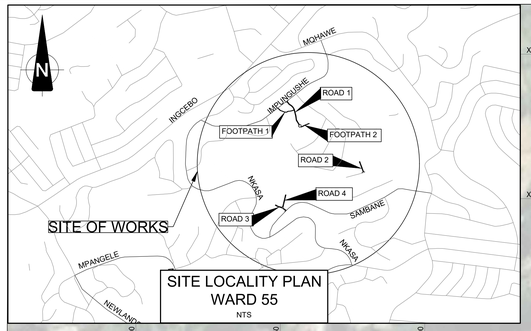

SITE LOCALITY PLAN
WARD 55
NTS

HORIZONTAL ALIGNMENT FOOTPATH 1

No	CHAINAGE	Y CO-ORD	X CO-ORD
Start	0.000	4764.068	3291849.873
PI1	13.742	4754.483	3291859.720
PI2	35.242	4734.299	3291867.125
PI3	41.836	4727.749	3291867.886
PI4	46.610	4723.051	3291867.041
PI5	51.415	4719.461	3291863.846
PI6	64.898	4706.024	3291862.737
END	79.702	4691.853	3291858.452

HORIZONTAL ALIGNMENT FOOTPATH 2

No	CHAINAGE	Y CO-ORD	X CO-ORD
Start	0.000		3291936.258
PI1	21.518		3291926.861
END	40.391		3291919.832

REFERENCE PEG CO-ORDINATES WGS 84

STATION	Y CO-ORD	X CO-ORD	Z CO-ORD
NTZ1	4713.898	3291826.448	227.113
NTZ2	4682.306	3291858.978	223.801
NTZ3	4718.436	3291866.713	221.083
NTZ4	4662.930	3291937.707	225.896
NTZ5	4384.426	3292099.220	147.757
NTZ6	4374.500	3292125.989	141.921
NTZ7	4738.298	3292270.028	181.846
NTZ8	4743.187	3292312.823	183.780

GEOLOK / TERRACE BLOCK WALL EARTH RETAINING SYSTEM SCHEDULE ROAD 1

LEFT HAND SIDE			RIGHT HAND SIDE		
FROM CH	TO CH	LENGTH (m)	FROM CH	TO CH	LENGTH (m)
-	-	-	-	-	-

GEOLOK / TERRACE BLOCK WALL EARTH RETAINING SYSTEM SCHEDULE ROAD 2

LEFT HAND SIDE			RIGHT HAND SIDE		
FROM CH	TO CH	LENGTH (m)	FROM CH	TO CH	LENGTH (m)
-	-	-	±25.000	±35.000	±10.000m

GEOLOK / TERRACE BLOCK WALL EARTH RETAINING SYSTEM SCHEDULE ROAD 3

LEFT HAND SIDE			RIGHT HAND SIDE		
FROM CH	TO CH	LENGTH (m)	FROM CH	TO CH	LENGTH (m)
-	-	-	-	-	-

GEOLOK / TERRACE BLOCK WALL EARTH RETAINING SYSTEM SCHEDULE ROAD 4

LEFT HAND SIDE			RIGHT HAND SIDE		
FROM CH	TO CH	LENGTH (m)	FROM CH	TO CH	LENGTH (m)
-	-	-	±15.000	±38.000	±23.000m

GEOLOK / TERRACE BLOCK WALL EARTH RETAINING SYSTEM SCHEDULE FOOTPATH 1

LEFT HAND SIDE			RIGHT HAND SIDE		
FROM CH	TO CH	LENGTH (m)	FROM CH	TO CH	LENGTH (m)
-	-	-	-	-	-

GEOLOK / TERRACE BLOCK WALL EARTH RETAINING SYSTEM SCHEDULE FOOTPATH 2

LEFT HAND SIDE			RIGHT HAND SIDE		
FROM CH	TO CH	LENGTH (m)	FROM CH	TO CH	LENGTH (m)
-	-	-	-	-	-

ROAD AND FOOTPATHS LAYOUT
SCALE 1:750

NOTES : NEW FOOTPATH 1 - TYPE B
1. FOOTPATH LENGTH : 80.000m
2. FOOTPATH WIDTH : 1000mm
3. STEPS : APPROX. 95 No. x 1000mm WIDE PRECAST CONCRETE STEPS
4. RETAINING WALLS : NIL
5. CROSSFALL : 2% LEFT TO RIGHT

NOTES: NEW FOOTPATH 2 - TYPE A
1. FOOTPATH LENGTH : 40.000m
2. FOOTPATH WIDTH : 1500mm
3. STEPS : NIL
4. RETAINING WALLS : REFER TO GEOLOK RETAINING WALL SCHEDULE
5. CROSSFALL : 2% RIGHT TO LEFT

NOTES: ROAD 1- TYPE 1 (FIG. 12 AND V-DRAIN)
1. ROAD LENGTH : CH 0.00 TO CH 134.00
2. ROAD WIDTH : 3000mm WIDE
3. DRY-STACK RETAINING WALLS : REFER TO GEOLOK RETAINING WALL SCHEDULE
4. CROSSFALL DIRECTION : LEFT TO RIGHT (3%)

NOTES: ROAD 2- TYPE 2 (FIG. 6 AND FIG. 12)
1. ROAD LENGTH : CH 0.00 TO CH 54.00
2. ROAD WIDTH : 3000mm WIDE
3. DRY-STACK RETAINING WALLS : REFER TO GEOLOK RETAINING WALL SCHEDULE
4. CROSSFALL DIRECTION : LEFT TO RIGHT (3%)

NOTES: ROAD 3- TYPE 1 (FIG. 12 AND V-DRAIN)
1. ROAD LENGTH : CH 0.00 TO CH 57.00
2. ROAD WIDTH : 3000mm WIDE
3. DRY-STACK RETAINING WALLS : REFER TO GEOLOK RETAINING WALL SCHEDULE
4. CROSSFALL DIRECTION : LEFT TO RIGHT (3%)

NOTES: ROAD 4- TYPE 1 (FIG. 12 AND V-DRAIN)
1. ROAD LENGTH : CH 0.00 TO CH 63.00
2. ROAD WIDTH : 3000mm WIDE
3. DRY-STACK RETAINING WALLS : REFER TO GEOLOK RETAINING WALL SCHEDULE
4. CROSSFALL DIRECTION : LEFT TO RIGHT (3%)

NOTES: REFERENCE DRAWINGS
1. PRECAST STEPS : AS PER DWG No. 631/RICH/903
2. PRECAST BOLLARD : AS PER DWG NO. 631/RICH/903
3. DRYSTACK RETAINING WALL : AS PER DWG NO. 631/RICH/904
4. HANDRAILS AND POSTS : AS PER DWG NO. 631/RICH/903
5. CONCRETE PANEL DETAIL : AS PER DWG NO. 631/RICH/903

LEGEND

DETAIL	Proposed	Existing
CENTERLINE		
WATERMAIN DUCT		
TELKOM CABLE DUCT		
ELECTRIC CABLE DUCT		
ELECTRIC CABLES		
ELECTRIC LIGHT POLE	ELP	ELP
TRAFFIC SIGNAL	TS	TS
CONSUMER DISTRIB. UNIT	CDU	CDU
TELKOM CABLES	TMH	TMH
TELEPHONE POLE	TP	TP
SEWER	S	S
STREAM		
STORMWATER DRAIN	SWD	SWD
STORMWATER INLET		
SCOOP		
KERB AND CHANNEL		
EARTH EMBANKMENT		
WATERMAIN		
VALVE (Valve / Air Valve)	V / AV	V / AV
FIRE PLUG	FP	FP
STANDARD HYDRANT	SH	SH
EXISTING M.H. TO BE CONVERTED TO CATCHPIT		
EXISTING CATCHPIT TO BE CONVERTED TO M.H.		
EXISTING BUILDINGS		
GEOLOK RETAINING WALL		
FOOTPATH		
FOOTPATH WITH V-DRAIN		
ROAD WITH KERB & V-DRAIN		
BENCHMARK		
CONCRETE V-DRAIN		
STEPS		
PRECAST POST AND HANDRAIL		
PRECAST CONCRETE BOLLARD		
GUARDRAIL		

STEEL GUARDRAIL SCHEDULE ROAD 1

LEFT HAND SIDE			RIGHT HAND SIDE		
FROM CH	TO CH	LENGTH (m)	FROM CH	TO CH	LENGTH (m)
-	-	-	±15.000	±60.000	±45.000m
-	-	-	±80.000	±110.000	±30.000m

STEEL GUARDRAIL SCHEDULE ROAD 3

LEFT HAND SIDE			RIGHT HAND SIDE		
FROM CH	TO CH	LENGTH (m)	FROM CH	TO CH	LENGTH (m)
±15.000	±45.000	±30.000m	-	-	-

HORIZONTAL ALIGNMENT ROAD 1

No	CHAINAGE	Y CO-ORD	X CO-ORD	CURVE DETAILS
Start	2.250	4723.694	3291817.785	-
BCC1	15.734	4715.428	3291828.437	R = 20.000m
PI1		4713.366	3291831.093	IA = 19° 05' 12"
ECC1	22.397	4710.549	3291832.929	TL = 3.362m AL = 6.663m
BCC2	27.801	4706.022	3291835.880	R = 40.000m
PI2		4693.069	3291844.324	IA = 42° 16' 07"
ECC2	57.310	4689.163	3291859.285	TL = 15.462m AL = 29.509m
BCC3	80.042	4683.421	3291881.279	R = 50.000m
PI3		4682.657	3291884.204	IA = 6° 55' 09"
ECC3	86.080	4682.251	3291887.199	TL = 3.023m AL = 6.038m
BCC4	99.332	4680.473	3291900.331	R = 50.000m
PI4		4679.913	3291904.464	IA = 6° 55' 09"
ECC4	107.556	4677.748	3291908.029	TL = 3.023m AL = 6.038m
END	134.154	4663.941	3291930.763	-

HORIZONTAL ALIGNMENT ROAD 2

No	CHAINAGE	Y CO-ORD	X CO-ORD	CURVE DETAILS
Start	1.511	4370.050	3292145.060	-
END	54.405	4388.647	3292095.542	-

HORIZONTAL ALIGNMENT ROAD 3

No	CHAINAGE	Y CO-ORD	X CO-ORD	CURVE DETAILS
Start	1.776	4727.965	3292321.544	-
BCC1	19.274	4742.132	3292311.273	R = 30.000m
PI1		4746.579	3292308.049	IA = 20° 45' 08"
ECC1	30.140	4751.880	3292306.610	TL = 5.493m AL = 10.866m
BCC2	41.157	4762.512	3292303.723	R = 20.000m
PI2		4764.976	3292303.054	IA = 14° 33' 02"
ECC2	46.236	4767.193	3292301.787	TL = 2.553m AL = 5.079m
END	57.425	4776.908	3292296.237	-

HORIZONTAL ALIGNMENT ROAD 4

No	CHAINAGE	Y CO-ORD	X CO-ORD	CURVE DETAILS
Start	1.580	4743.216	3292308.749	-
END	62.983	4729.018	3292249.010	-

NOTES

GENERAL :
1. PROVE ALL SERVICES PRIOR TO CONSTRUCTION.
2. ALL LEVELS AND DIMENSIONS 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 CITY OF DURBAN SPECIFICATIONS AND SANS 1200
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.
11. THE AERIAL IMAGE DEPICTED, OBTAINED FROM GIS MAY NOT BE RECENT NOR UPDATED HOWEVER THE IMAGE IS NOT TO BE DEEMED AS ACCURATE RATHER FOR ILLUSTRATION PURPOSES ONLY.

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.

FREQUENCY OF TESTS :
1. CBR TESTS 1 PER 300m².
2. COMPACTION TESTS 1 PER 200m² NOTE : COMPACTION TESTS WILL BE REQUIRED FOR EACH OF THE VARYING LAYER THAT IS 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 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.

ROADS AND FOOTPATHS :
1. ALL LEVELS, DIMENSIONS AND SETTING OUT DETAILS TO BE VERIFIED BY CONSULTANT AND CONTRACTORS ON SITE PRIOR TO CONSTRUCTION.
2. THE POSITIONS OF ACCESSES ARE TO BE DETERMINED IN CONSULTATION WITH THE LOCAL COMMUNITY. DAYLIGHT REQUIREMENTS ARE TO BE DECIDED BY THE ENGINEER ON SITE. CONCRETE WEDGES ACCORDING TO CIVIL ENGINEERS DETAILS AND SPECIFICATIONS MAY BE USED IN PLACE OF SURFACED BELL-MOUTHS FOR ACCESSES SERVING SINGLE RESIDENTIAL PROPERTIES.
7. EXISTING ROAD SIGNS, SERVICES AND FENCING AFFECTED BY CONSTRUCTION ARE TO BE REMOVED/RELOCATED ON INSTRUCTION BY THE CIVIL ENGINEER.
8. UNDERGROUND SERVICE CROSSINGS AND MARKERS ARE TO BE ACCORDING TO CIVIL ENGINEERS DETAILS AND SPECIFICATIONS.
9. ALL NEW ROAD SIGNS AND ROAD MARKING REQUIREMENTS ARE TO CONFORM TO THE SOUTHERN AFRICAN DEVELOPMENT COMMUNITY ROAD TRAFFIC SIGNS MANUAL (SADC - RTSM).
10. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH "COLTO SPECIFICATIONS FOR ROAD AND BRIDGE WORKS FOR STATE ROAD AUTHORITIES".
11. NEW FILLS AND EXPOSED CUTS ARE TO BE TOP-SOILED AND VEGETATED IMMEDIATELY AFTER CONSTRUCTION TO PREVENT EROSION.

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/902-1	FOOTPATHS CROSS SECTIONS
631/RICH/901-3	ROADS LONG SECTIONS
631/RICH/901-2	ROADS LONG SECTIONS
631/RICH/901-1	FOOTPATHS LONG SECTIONS

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

Professional person : L Singh — Registration : 20137030 1

CLIENT
ETHEKWINI MUNICIPALITY

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

DETAILS
ROADS AND FOOTPATHS LAYOUT AND SETTING OUT COORDINATES

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

CONTRACT No. 4V-34029
DRAWING No. 631/RICH/900 REV T1

FOR TENDER