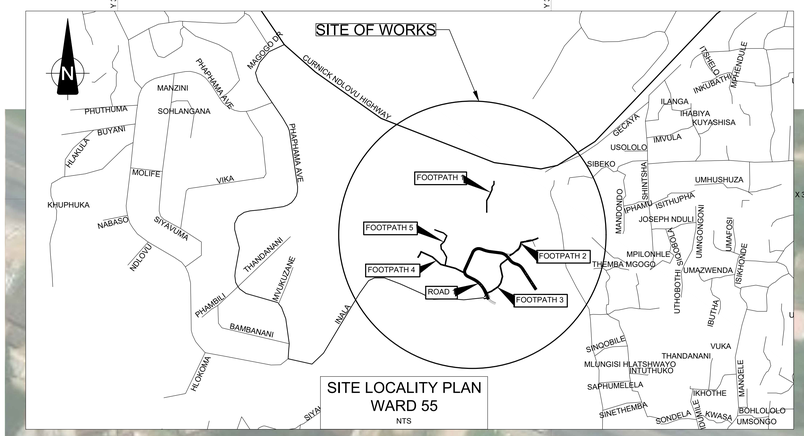


SITE LOCALITY PLAN
WARD 55
NTS

HORIZONTAL ALIGNMENT : FOOTPATH 1

No.		CHAINAGE	CO-ORDINATES WG Lo31° Y Co-Ord	X Co-Ord	CURVE DETAILS
START		0.000	3740.136	3288108.499	—
KINK 1	BCC1 ECC1 PI1 CC1		3740.095	3288114.538	R =0.000m IA = 37° 39' 38" TL = 0.000m AL =0.000m
KINK 2	BCC2 ECC2 PI2 CC2		3743.605	3288119.150	R =0.000m IA = 37° 44' 21" TL = 0.000m AL =0.000m
KINK 3	BCC3 ECC3 PI3 CC3		3743.564	3288124.169	R =0.000m IA = 24° 53' 05" TL = 0.000m AL =0.000m
KINK 4	BCC4 ECC4 PI4 CC4		3749.538	3288137.327	R =0.000m IA = 05° 05' 58" TL = 0.000m AL =0.000m
KINK 5	BCC5 ECC5 PI5 CC5		3753.449	3288144.235	R =0.000m IA = 29° 31' 06" TL = 0.000m AL =0.000m
END		61.244	3753.449	3288166.235	—

HORIZONTAL ALIGNMENT : FOOTPATH 2

No.		CHAINAGE	CO-ORDINATES WG Lo31° Y Co-Ord	X Co-Ord	CURVE DETAILS
START		0.000	3620.317	3288193.988	—
KINK 1	BCC1 ECC1 PI1 CC1		3661.620	3288215.086	R =0.000m IA = 08° 19' 14" TL = 0.000m AL =0.000m
KINK 2	BCC2 ECC2 PI2 CC2		3670.048	3288217.945	R =0.000m IA = 06° 53' 56" TL = 0.000m AL =0.000m
KINK 3	BCC3 ECC3 PI3 CC3		3676.838	3288219.368	R =0.000m IA = 03° 03' 06" TL = 0.000m AL =0.000m
KINK 4	BCC4 ECC4 PI4 CC4		3689.980	3288221.400	R =0.000m IA = 66° 07' 44" TL = 0.000m AL =0.000m
KINK 5	BCC5 ECC5 PI5 CC5		3691.501	3288227.043	R =0.000m IA = 09° 37' 12" TL = 0.000m AL =0.000m
KINK 6	BCC6 ECC6 PI6 CC6		3694.287	3288233.099	R =0.000m IA = 23° 31' 03" TL = 0.000m AL =0.000m
KINK 7	BCC7 ECC7 PI7 CC7		3697.800	3288236.237	R =0.000m IA = 11° 47' 34" TL = 0.000m AL =0.000m
KINK 8	BCC8 ECC8 PI8 CC8		3705.239	3288240.530	R =0.000m IA = 11° 46' 36" TL = 0.000m AL =0.000m
END		110.530	3712.105	3288246.661	—

HORIZONTAL ALIGNMENT : FOOTPATH 3

No.		CHAINAGE	CO-ORDINATES WG Lo31° Y Co-Ord	X Co-Ord	CURVE DETAILS
START		0.000	3715.247	3288252.437	—
KINK 1	BCC1 ECC1 PI1 CC1		3726.999	3288261.358	R =0.000m IA = 32° 28' 12" TL = 0.000m AL =0.000m
KINK 2	BCC2 ECC2 PI2 CC2		3728.471	3288265.330	R =0.000m IA = 32° 24' 22" TL = 0.000m AL =0.000m
KINK 5	BCC5 ECC5 PI5 CC5		3724.341	3288284.629	R =0.000m IA = 27° 10' 41" TL = 0.000m AL =0.000m
KINK 6	BCC6 ECC6 PI6 CC6		3727.523	3288296.422	R =0.000m IA =17° 50' 03" TL = 0.000m AL =0.000m
KINK 7	BCC7 ECC7 PI7 CC7		3729.600	3288299.629	R =0.000m IA = 03° 20' 33" TL = 0.000m AL =0.000m
KINK 8	BCC8 ECC8 PI8 CC8		3732.389	3288303.428	R =0.000m IA = 19° 24' 14" TL = 0.000m AL =0.000m
KINK 9	BCC9 ECC9 PI9 CC9		3744.816	3288311.912	R =0.000m IA = 12° 13' 36" TL = 0.000m AL =0.000m
END		82.583	3752.286	3288314.944	—

HORIZONTAL ALIGNMENT : FOOTPATH 4

No.		CHAINAGE	CO-ORDINATES WG Lo31° Y Co-Ord	X Co-Ord	CURVE DETAILS
START		0.000	3796.711	3288276.939	—
KINK 1	BCC1 ECC1 PI1 CC1		3811.157	3288269.605	R =0.000m IA = 11° 47' 40" TL = 0.000m AL =0.000m
KINK 2	BCC2 ECC2 PI2 CC2		3838.217	3288262.294	R =0.000m IA = 26° 23' 49" TL = 0.000m AL =0.000m
KINK 3	BCC3 ECC3 PI3 CC3		3853.796	3288248.503	R =0.000m IA = 11° 01' 22" TL = 0.000m AL =0.000m
KINK 4	BCC4 ECC4 PI4 CC4		3874.652	3288239.000	R =0.000m IA = 90° 49' 44" TL = 0.000m AL =0.000m
KINK 5	BCC5 ECC5 PI5 CC5		3876.678	3288243.625	R =0.000m IA = 09° 20' 45" TL = 0.000m AL =0.000m
END		99.904	3880.437	3288249.411	—

HORIZONTAL ALIGNMENT : FOOTPATH 5

No.		CHAINAGE	CO-ORDINATES WG Lo31° Y Co-Ord	X Co-Ord	CURVE DETAILS
START		0.000	3830.089	3288263.391	—
KINK 1	BCC1 ECC1 PI1 CC1		3827.452	3288248.933	R =0.000m IA = 39° 04' 45" TL = 0.000m AL =0.000m
KINK 2	BCC2 ECC2 PI2 CC2		3833.496	3288237.915	R =0.000m IA = 16° 32' 16" TL = 0.000m AL =0.000m
KINK 3	BCC3 ECC3 PI3 CC3		3837.255	3288234.193	R =0.000m IA = 38° 40' 49" TL = 0.000m AL =0.000m
KINK 4	BCC4 ECC4 PI4 CC4		3838.176	3288226.233	R =0.000m IA = 52° 17' 21" TL = 0.000m AL =0.000m
KINK 5	BCC5 ECC5 PI5 CC5		3831.957	3288220.162	R =0.000m IA = 21° 55' 46" TL = 0.000m AL =0.000m
KINK 6	BCC6 ECC6 PI6 CC6		3827.213	3288209.383	R =0.000m IA =72° 57' 06" TL = 0.000m AL =0.000m
KINK 7	BCC7 ECC7 PI7 CC7		3833.349	3288204.085	R =0.000m IA = 22° 22' 16" TL = 0.000m AL =0.000m
KINK 8	BCC8 ECC8 PI8 CC8		3841.530	3288201.358	R =0.000m IA = 02° 54' 58" TL = 0.000m AL =0.000m
END		86.469	3849.637	3288198.189	—

HORIZONTAL ALIGNMENT : ROAD 1

No.		CHAINAGE	CO-ORDINATES WG Lo31° Y Co-Ord	X Co-Ord	CURVE DETAILS
START		0.000	3737.379	3288334.981	—
CURVE 1	BCC1 ECC1 PI1 CC1	5.393 20.646	3742.315 3752.730 3749.655 3734.259	3288332.809 3288322.172 3288329.578 3288314.503	R =20.000m IA = 43° 41' 52" TL = 8.019m AL =15.253m
CURVE 2	BCC2 ECC2 PI2 CC2	30.709 63.225	3756.588 3778.386 3763.109 3798.148	3288312.879 3288289.706 3288297.174 3288330.134	R =45.000m IA = 41° 24' 03" TL = 17.004m AL =32.516m
CURVE 3	BCC3 ECC3 PI3 CC3	75.018 90.440	3788.981 3793.695 3797.711 3784.589	3288284.527 3288271.410 3288280.259 3288275.543	R =10.000m IA = 88° 21' 35" TL = 9.718m AL =15.422m
CURVE 4	BCC4 ECC4 PI4 CC4	124.732 143.455	3779.523 3763.818 3774.721 3768.141	3288240.183 3288233.621 3288229.602 3288245.349	R =12.500m IA = 85° 49' 20" TL = 11.620m AL =18.723m
CURVE 5	BCC5 ECC5 PI5 CC5	149.420 160.984	3758.221 3747.006 3752.771 3740.929	3288235.684 3288238.398 3288237.692 3288188.769	R =50.000m IA = 13° 15' 06" TL = 5.808m AL =11.564m
CURVE 6	BCC6 ECC6 PI6 CC6	180.023 195.641	3728.109 3714.839 3719.938 3730.540	3288240.712 3288248.175 3288241.713 3288260.564	R =20.000m IA =44° 44' 30" TL = 8.231m AL =15.618m
END		203.000	3710.120	3288254.154	—

REFERENCE PEG COORDINATES WGS84

STATION	Y	X	Z
BM1	3874.829	3288238.703	184.242
BM2	3832.722	3288263.448	183.251
BM3	3801.850	3288270.765	181.318
BM4	3757.030	3288317.540	184.461
BM5	3842.146	3288199.566	170.257
BM6	3837.248	3288221.493	174.347
BM7	3760.718	3288231.093	166.185
BM8	3710.433	3288251.225	164.253
BM9	3733.927	3288303.848	178.405
BM10	3758.048	3288166.580	160.261
BM11	3744.243	3288137.957	169.654

HORIZONTAL ALIGNMENT : TIE-IN ROAD

No.		CHAINAGE	CO-ORDINATES WG Lo31° Y Co-Ord	X Co-Ord	CURVE DETAILS
START		0.000	3774.156	3288325.556	—
CURVE 1	BCC1 ECC1 PI1 CC1	15.901 21.364	3758.362 3753.089 3755.632 3760.674	3288323.718 3288322.358 3288323.400 3288303.852	R =20.000m IA = 15° 39' 03" TL = 2.749m AL = 5.463m
END		23.271	3751.324	3288321.634	—

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)
±46.000	±60.000	±14.000m	±139.000	±176.000	±37.000m
±124.000	±150.000	±26.000m	-	-	-
±165.000	±175.000	±10.000m	-	-	-
-	-	-	-	-	-

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)
-	-	-	±60.000	±63.000	±3.000m

GEOLOK / TERRACE BLOCK WALL EARTH RETAINING SYSTEM SCHEDULE FOOTPATH 3

LEFT HAND SIDE			RIGHT HAND SIDE		
FROM CH	TO CH	LENGTH (m)	FROM CH	TO CH	LENGTH (m)
±35.000	±40.000	±5.000m	±57.000	±80.000	±23.000m

GEOLOK / TERRACE BLOCK WALL EARTH RETAINING SYSTEM SCHEDULE FOOTPATH 4

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 5

LEFT HAND SIDE			RIGHT HAND SIDE		
FROM CH	TO CH	LENGTH (m)	FROM CH	TO CH	LENGTH (m)
±0.000	±7.500	±7.500m	-	-	-

STEEL GUARDRAIL SCHEDULE

LEFT HAND SIDE			RIGHT HAND SIDE		
FROM CH	TO CH	LENGTH (m)	FROM CH	TO CH	LENGTH (m)
±125.000	±180.000	±55.00mm	-	-	-

NOTES: FOOTPATH 1- TYPE C
1. FOOTPATH LENGTH : CH 0.00 TO CH 61.00
2. FOOTPATH WIDTH : 1000mm WIDE
3. STEPS : APPROXIMATELY 220No. x 1000mm WIDE PRECAST STEPS
4. DRY-STACK RETAINING WALLS : REFER TO GEOLOK RETAINING WALL SCHEDULE
5. CROSSFALL DIRECTION : LEFT TO RIGHT (2%)

NOTES: FOOTPATH 2- TYPE D
1. FOOTPATH LENGTH : CH 0.00 TO CH 66.00
2. FOOTPATH WIDTH : 1500mm WIDE
3. STEPS : APPROXIMATELY 130No. x 1500mm WIDE PRECAST STEPS
4. DRY-STACK RETAINING WALLS : REFER TO GEOLOK RETAINING WALL SCHEDULE
5. CROSSFALL DIRECTION : LEFT TO RIGHT (2%)

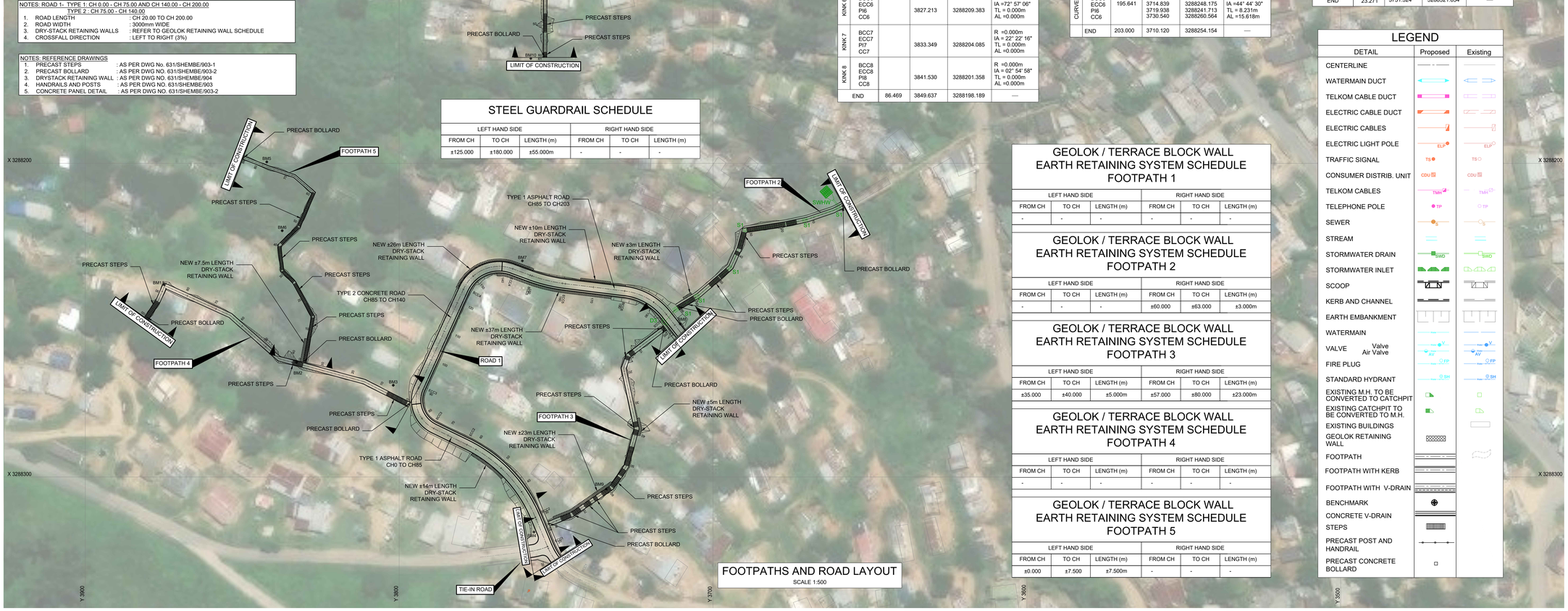
NOTES: FOOTPATH 3- TYPE E
1. FOOTPATH LENGTH : CH 0.00 TO CH 82.50
2. FOOTPATH WIDTH : 1500mm WIDE
3. STEPS : APPROXIMATELY 300No. x 1500mm WIDE PRECAST STEPS
4. DRY-STACK RETAINING WALLS : REFER TO GEOLOK RETAINING WALL SCHEDULE
5. CROSSFALL DIRECTION : LEFT TO RIGHT (2%)

NOTES: FOOTPATH 4- TYPE A
1. FOOTPATH LENGTH : CH 0.00 TO CH 100.00
2. FOOTPATH WIDTH : 1500mm WIDE
3. STEPS : APPROXIMATELY 80No. X 1500mm WIDE PRECAST STEPS
4. DRY-STACK RETAINING WALLS : REFER TO GEOLOK RETAINING WALL SCHEDULE
5. CROSSFALL DIRECTION : LEFT TO RIGHT (2%)

NOTES: FOOTPATH 5- TYPE B
1. FOOTPATH LENGTH : CH 0.00 TO CH 86.50
2. FOOTPATH WIDTH : 1000mm WIDE
3. STEPS : APPROXIMATELY 190No. x 1000mm WIDE PRECAST STEPS
4. DRY-STACK RETAINING WALLS : REFER TO GEOLOK RETAINING WALL SCHEDULE
5. CROSSFALL DIRECTION : LEFT TO RIGHT (2%)

NOTES: ROAD 1- TYPE 1: CH 0.00 - CH 75.00 AND CH 140.00 - CH 200.00
TYPE 2 : CH 75.00 - CH 140.00
1. ROAD LENGTH : CH 20.00 TO CH 200.00
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/SHEMBE/903-1
2. PRECAST BOLLARD : AS PER DWG NO. 631/SHEMBE/903-2
3. DRYSTACK RETAINING WALL : AS PER DWG NO. 631/SHEMBE/904
4. HANDRAILS AND POSTS : AS PER DWG NO. 631/SHEMBE/903
5. CONCRETE PANEL DETAIL : AS PER DWG NO. 631/SHEMBE/903-2



FOOTPATHS AND ROAD LAYOUT
SCALE 1:500

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.
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.
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 2.0m 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)
0 20 40 60 80

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

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		
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 KERB		
FOOTPATH WITH V-DRAIN		
BENCHMARK		
CONCRETE V-DRAIN		
STEPS		
PRECAST POST AND HANDRAIL		
PRECAST CONCRETE BOLLARD		

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 AND ROAD LAYOUT AND SETTING OUT COORDINATES

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DESIGNED	L.S	COPYRIGHT RESERVED	SCALES AS INDICATED
DRAWN	A.D		
APPROVED	L.S	PL	DATE 11/02/2026

CONTRACT No. 4V-36930
DRAWING No. 631/SHEMBE/900 REV T1