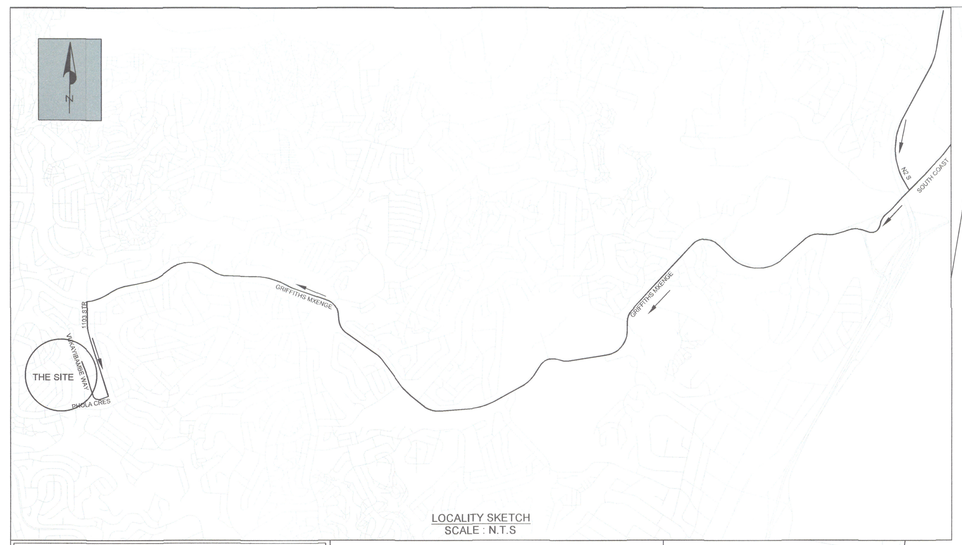

LOCALITY SKETCH
SCALE : N.T.S

SETTLEMENT - UMLAZI L-L2		
RETAINING WALL CO-ORDINATE TABLE		
POINT	Y	X
RW1	-3316612.214	-13409.363
RW2	-3316609.340	-13417.636
RW3	-3316598.592	-13416.640
RW4	-3316596.731	-13417.066
RW5	-3316596.774	-13425.612
RW6	-3316595.876	-13427.624
RW7	-3316595.516	-13431.342
RW8	-3316591.111	-13453.458
RW9	-3316589.214	-13458.048
RW10	-3316586.022	-13467.606
RW11	-3316583.552	-13478.337
RW12	-3316581.092	-13483.139
RW13	-3316578.648	-13487.771
RW14	-3316573.647	-13485.051
RW15	-3316576.091	-13480.419
RW16	-3316577.388	-13478.055
RW17	-3316578.121	-13476.656
RW18	-3316580.099	-13468.062
RW19	-3316581.587	-13461.510
RW20	-3316582.819	-13458.386
RW21	-3316583.859	-13455.937
RW22	-3316585.756	-13451.347
RW23	-3316564.070	-13443.838
RW24	-3316556.921	-13441.056
RW25	-3316553.099	-13444.802
RW26	-3316534.468	-13439.076
RW27	-3316533.656	-13441.161
RW28	-3316528.836	-13437.830
RW29	-3316678.926	-13433.595
RW30	-3316565.243	-13439.795
RW31	-3316567.834	-13434.074
RW32	-3316590.072	-13441.852

SETTLEMENT - UMLAZI L-L2		
FOOTPATH 1 CO-ORDINATE TABLE		
CHAINAGE	Y	X
0.00	-3316610.833	-13404.861
10.00	-3316607.476	-13414.281
10.363 (CD)	-3316607.355	-13414.623
19.397 (CD)	-3316598.362	-13413.752
20.00	-3316597.851	-13414.071
22.303 (CD)	-3316595.896	-13415.289
24.00	-3316595.701	-13416.680

SETTLEMENT - UMLAZI L-L2		
FOOTPATH 2 CO-ORDINATE TABLE		
CHAINAGE	Y	X
0.00	-3316594.843	-13422.712
4.715 (CD)	-3316593.049	-13427.072
8.538 (CD)	-3316592.659	-13430.891
10.00	-3316592.431	-13432.320
14.902 (CD)	-3316591.657	-13437.160
20.00	-3316591.130	-13442.231
24.858 (CD)	-3316590.617	-13447.167
30.00	-3316588.690	-13451.821
40.00	-3316584.863	-13461.059
41.510 (CD)	-3316584.283	-13462.459
50.00	-3316582.386	-13470.729
57.050 (CD)	-3316580.809	-13477.605
60.00	-3316579.432	-13480.209
67.00	-3316576.138	-13486.438

SETTLEMENT - UMLAZI L-L2		
FOOTPATH 3 CO-ORDINATE TABLE		
CHAINAGE	Y	X
0.00	-3316590.102	-13444.867
10.00	-3316580.697	-13441.470
11.074 (CD)	-3316579.687	-13441.105
20.00	-3316571.235	-13438.236
21.946 (CD)	-3316569.392	-13437.611
26.788 (CD)	-3316567.371	-13442.011
30.00	-3316564.374	-13440.855
38.914 (CD)	-3316556.059	-13437.645
40.00	-3316555.307	-13438.430
44.315 (CD)	-3316552.321	-13441.545
50.00	-3316546.894	-13439.853
60.00	-3316537.347	-13436.876
64.884 (CD)	-3316532.685	-13435.423
69.211 (CD)	-3316531.246	-13439.504
70.00	-3316530.457	-13439.487
76.067 (CD)	-3316524.391	-13439.355
80.00	-3316522.546	-13435.882
84.096 (CD)	-3316520.624	-13432.265
89.00	-3316516.591	-13428.997

CONTROL POINTS			
CODE	Y	X	ELEVATION
L01	13400.061	3316565.912	144.223
L02	13392.232	3316664.716	142.176
L03	13451.398	3316759.062	131.391

HEADWALLS			
HW	Y-COORDINATE	X-COORDINATE	LEVEL
HW 01	-3316590.349	-13424.281	TBC ON SITE
HW 02	-3316572.340	-13420.677	TBC ON SITE

STORMWATER MANHOLES						
SWMH	Y-COORDINATE	X-COORDINATE	COVER LEVEL	INVERT LEVEL	PIPE SIZE	PIPE TYPE
SWMH 01	-3316592.645	-13425.999	140.500	139.700	450mmØ	HDPE PIPE
SWMH 02	-3316590.183	-13444.917	142.700	141.900	450mmØ	HDPE PIPE
SWMH 03	-3316585.386	-13457.806	148.000	147.200	450mmØ	HDPE PIPE
SWMH 04	-3316569.388	-13437.649	144.800	144.000	450mmØ	HDPE PIPE
SWMH 05	-3316568.660	-13433.480	143.000	142.200	450mmØ	HDPE PIPE

1. GENERAL NOTES

1.1 NO SCALING-OFF IS PERMITTED ONLY WRITTEN DIMENSIONS MAY BE DEEMED CORRECT, ALL DIMENSIONS ARE IN M UNLESS OTHERWISE STATED.

1.2 ALL WORK TO COMPLY WITH THE LATEST EDITION OF THE SANS 1200 SPECIFICATIONS AND ETHEKWINI SPECIFICATIONS.

1.3 ALL CUT SLOPES TO BE SHAPED TO 1:1.5 AND FILL SLOPES TO 1:2 UNLESS OTHERWISE DIRECTED BY THE ENGINEER ON SITE.

1.4 FILL MATERIAL TO BE COMPACTED IN LAYERS OF MAX. 150mm TO 93% MOD AASHTO. STEPS TO BE FORMED PRIOR TO FILLING . HEIGHT OF STEPS TO BE APPROXIMATELY 300mm LIFTS.

1.5 COMPACTION TESTING TO BE DONE AS FOLLOWS:
(a) 1 TEST PER LAYER FOR EACH 25m LENGTH OF FOOTPATH

1.6 BOLLARDS TO BE CONSTRUCTED ONLY WHEN INSTRUCTED BY THE ENGINEER.

1.7 WHERE THE COVER LEVELS OF THE EXISTING MANHOLES LOCATED IN THE AUGMENT OF NEW FOOTPATHS IS HIGHER THAN THE FINISHED DESIGN LEVEL OF THE FOOTPATH, MANHOLE RINGS ARE TO BE CUT SUCH THAT THE NEW MANHOLE COVER LEVEL IS CONSISTENT WITH THE LEVEL AND SLOPE OF THE FOOTPATH. EXISTING MANHOLE LIGHT DUTY COVERS AND FRAME ARE TO BE REPLACED WITH HEAVY DUTY COVER AND FRAME. EXPOSED REINFORCING MUST BE PAINTED WITH SIKA TOP AMATEC 110 EC OR SIMILAR APPROVED

1.8 FOR ALL DETAILS REFER TO STANDARD DRAWING 74527 (SHEET 1 TO 3).

1.9 NEW DRY STACK RETAINING WALL POSITIONS AND HEIGHT WILL BE FINALISED ON SITE.

2. CONCRETE

2.1 CONCRETE WORKS TO COMPLY WITH SANS1200 SECTION G AND SANS 0100 PART 2 AND ETHEKWINI SPECIFICATIONS PART C.

2.2 THE FREQUENCY OF CONCRETE WORKS TESTING MUST BE DONE AS FOLLOWS :

(a) AT LEAST ONE SET(3 NO. CUBES) OF SAMPLES FOR EVERY 50m³ OF CONCRETE PLACED/EVERY BATCH.
(b) AT LEAST ONE SET OF SAMPLES SHALL BE TAKEN FROM EACH DAY CASTING.
(c) TESTING MUST BE BE CARRIED OUT IN ACCORDANCE TO SANS METHOD 861 AND TESTED BY AN APPROVED LABORATORY RESULTS TO BE BE SUBMITTED TO THE ENGINEER.
(d) ON THE BASIS IF IMPORTANCE, WHERE DIRECTED BY THE ENGINEER, A SET OF SAMPLES MAY BE REQUESTED.
(e) UNLESS OTHERWISE ADVISED, NO SAMPLE SHALL BE TAKEN OF ANY CONCRETE UNTIL AT LEAST 1m³ OF SUCH CONCRETE HAS BEEN MIXED AND DISCHARGED FOR THE FOOTPATHS

2.3 CURING AND PROTECTION SHALL BE ACCORDING TO SANS 0100 8-1980, 5.8.8

2.4 ALL CONCRETE TO BE PROPERLY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP, AT LEAST 7 DAYS AFTER CASTING.

2.5 CONCRETE POURING WILL ONLY BE DONE UPON THE APPROVAL OF THE SHUTTERING AND FIXING OF THE REINFORCEMENT FOR THE FOOTPATHS/DRAINS

2.6 MIN.CONCRETE CUBE STRENGTH AT 28 DAYS:

FOOTPATH	20 MPa
DRAINS	20 MPa
KERB BASE AND HAUNCH	20 MPa
STEP CONCRETE BASE	15 MPa
RETAINING WALL BASE	25 MPapla

2.7 HANDRAIL TO BE INSTALLED IN ALL THE STAIRS

2.8 RETAINING WALL LEVELS TO BE CONFIRMED ON SITE

2.9 STORMWATER BETWEEN MH4 AND MH5 DETAIL TO BE INSTRUCTED BY ENGINEER ON SITE

LEGEND

DETAIL	Proposed	Existing
CENTERLINE		
ELECTRICAL CABLES	E	E
TELKOM CABLE DUCT		
ELECTRICAL CABLE DUCT		
WATERMAIN DUCT		
ELECTRIC LIGHT POLE	ELP	ELP
TELKOM CABLES	TMH	TMH
TELEPHONE POLE	TP	
SEWER		S
STORMWATER DRAIN	SWD	SWD
STORMWATER INLET		
SCOOP	N	N
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.		
HEAVY DUTY COVER	H	
LIGHT DUTY COVER	L	
BOLLARDS		
GEO-LOCK RETAINING WALL		
FOOTPATH		
DRAIN		
STEPS		

FOR TENDER PURPOSES ONLY
Date ..... Sign. .....

eTHEKWINI MUNICIPALITY
ENGINEERING UNIT
DEVELOPMENT ENGINEERING

PLAN DESCRIPTION	DWG. NO.	SHEET NO.
CONTINUED FROM		
CONTINUED ON		
CROSS SECTIONS		
TYPICAL CROSS SECTION		
SURVEY LAYOUT		

REDUCED PLAN USE SCALE BELOW
0 10 20 30 40 50 60 70
70mm ON ORIGINAL PLAN

Approved ____ Date ____

Revision	Date	Description

NOTE:No construction work to commence until land and servitude acquisitions have been completed
Acquisitions completed
DATE ____ Engineer ____

NORTH POINT

UNDERGROUND SERVICES CHECKED

SERVICE	DATE	SIGNATURE
S.W.DRAINS		
SEWERS		
WATER MAINS		
G.P.O.CABLES		
ELECTRIC CABLES		
S.A.R. CABLES		
E.S.C. CABLES		
OIL PIPE LINE		

NOTE:
Only underground services affected by new construction work are shown.Care must be taken during excavations for road foundations,trenches etc., to avoid damage to underground services such as sewers, drains, cables, water mains and connections. Wherever possible these must be located before work proceeds.

Contract No. 3V-31679

Project Title
PROVISION OF INCREMENTAL SERVICES TO eMLAZA L-L2 SETTLEMENT, WARD 78

Drawing Title
FOOTPATH LAYOUT AND SETTING OUT CO-ORDINATE

Scales	Reference
1:200	

	Date	Signature
Checked C.P	22/05/2025	
Designed C.S	22/05/2025	
Drawn by S.N	22/05/2025	

Senior Manager: Development Engineering (South)

Deputy Head: Development Engineering

Drawing No 49442
Sheet 1 of 2 Sheets