

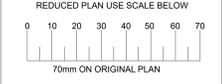
SETTLEMENT - EX1 PH 2		
FP 1 CO-ORDINATE TABLE		
CHAINAGE	Y	X
0.00	8168.776	3313948.182
14.455 (CD)	8054.081	3313832.735
20.00	8008.961	3313833.103
27.776 (CD)	8215.865	3313828.41
32.223 (CD)	8215.861	3313834.984
40.00	8222.823	3313820.921
42.253 (CD)	8244.547	3313819.749
48.202 (CD)	8206.241	3313821.471
53.614 (CD)	8204.407	3313818.174
60.00	8204.222	3313811.691
65.230 (CD)	8204.672	3313809.464
70.897 (CD)	8208.622	3313799.826
80.00	8227.246	3313782.943
84.406 (CD)	8222.226	3313779.24
90.001 (CD)	8229.469	3313775.928
100.00	8229.584	3313774.911
103.985 (CD)	8229.882	3313773.949
117.589 (CD)	8224.838	3313758.107
120.00	8225.284	3313758.828
131.164 (CD)	8227.359	3313744.868
140.00	8235.031	3313740.485
157.482 (CD)	8202.211	3313731.813
160.00	8251.208	3313726.057
172.416 (CD)	8256.837	3313718.43
180.00	8263.437	3313714.728
183.359	8266.389	3313713.068

- 1. GENERAL NOTES**
- NO SCALING OUT IS PERMITTED ON WRITTEN DIMENSIONS MAY BE DEEMED CORRECT. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE STATED.
 - ALL WORK TO COMPLY WITH THE LATEST EDITION OF THE SANS 1020 SPECIFICATIONS.
 - ALL CUT SLOPES TO BE SHAPED TO 1:1 SAND FILL SLOPES TO 1:2 UNLESS OTHERWISE DIRECTED BY THE ENGINEER ON SITE.
 - FILL MATERIAL TO BE COMPACTED IN LAYERS OF MAX. 150mm TO 150mm AND ABOVE STEPS TO BE FORMED PRIOR TO FILLING. HEIGHT OF STEPS TO BE APPROXIMATELY 300mm LPTS.
 - COMPACTION TESTING TO BE DONE AS FOLLOWS:
 - 1 TEST PER 1000 SQ M OR 200m LENGTH OF FOOTPATH.
 - BOLLARDS TO BE CONSTRUCTED ONLY WHEN INSTRICTED BY THE ENGINEER.
 - WHERE THE COVER LEVELS OF THE EXISTING MANHOLES LOCATED AT THE ALIGNMENT 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 COVERS AND FRAME. EXPOSED REINFORCING MUST BE PAINTED WITH SKA TOP AMATEC 110 EC OR SIMILAR APPROVED.
 - THESE DRAWINGS OR DRAWINGS ARE NOT TO BE SOLD AND ARE SUBJECT TO RECALL. REPRODUCTION OR COPYING RIGHTS ARE RESERVED EXCEPT BY BVI CONSULTING ENGINEERS UNDER COPYRIGHT LAW. THESE DRAWINGS HAVE BEEN ISSUED AND RECORDED ON THE FOLLOWING CONDITIONS:
 - THAT THEY ARE NOT USED IN ANY WAY AGAINST THE INTERESTS AND BENEFITS OF BVI.
 - THAT THESE DRAWINGS AND ALL COPIES WILL BE RETURNED TO BVI IMMEDIATELY ON DEMAND.
 - THAT ALL INFORMATION DISCLOSED BY THESE DRAWINGS SHALL BE DEEMED TO BE CONFIDENTIAL.
- 2. CONCRETE**
- CONCRETE WORKS TO COMPLY WITH SANS 1020 SECTION G AND SANS 9100 PART 2.
 - THE FREQUENCY OF CONCRETE WORKS TESTING MUST BE DONE AS FOLLOWS:
 - AT LEAST ONE SET (3 NO. CUBES) OF SAMPLES FOR EVERY 50m³ OF CONCRETE PLACED.
 - AT LEAST ONE SET OF SAMPLES SHALL BE TAKEN FROM EACH DAY CASTING.
 - TESTING MUST BE CARRIED OUT IN ACCORDANCE TO SANS 1020 AND TESTED BY AN APPROVED LABORATORY.
 - RESULTS TO BE SUBMITTED TO THE ENGINEER.
 - IF ON THE BASIS OF INSPECTION, THESE DIRECTED BY THE ENGINEER, A SET OF SAMPLES MAY BE REJECTED. 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.
 - CURING AND PROTECTION SHALL BE ACCORDING TO SANS 9100:1985, 8.8.8.
 - ALL CONCRETE TO BE PROPERLY CURED BY KEEPING SURFACES CONTINUOUSLY DAMP AT LEAST 7 DAYS AFTER CASTING.
 - CONCRETE POURING WILL ONLY BE DONE UPON THE APPROVAL OF THE SHIFTERING AND FORMS OF THE REINFORCEMENT FOR THE FOOTPATHS/GRIDS.
 - MIN CONCRETE CURE STRENGTH AT 28 DAYS:

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



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



DESIGN CONSULTANT

bvi ENGINEERING CONSULTANTS

BVI Consulting Engineers KwaZulu-Natal PTY (Ltd)
 Registered in 1998/002020

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Revision	Date	Description
0	21.06.2023	ISSUED FOR TENDER PURPOSES

NOTE: No construction work to commence until land and servitude acquisitions have been completed.

Acquisitions completed

DATE: _____ ENGINEER: _____

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		
CL. 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-25481**

Project Title

PROVISION OF INCREMENTAL SERVICES TO SETTLEMENT UMLAZI EX1 PH 2

GENERAL LAYOUT

Scales	Reference
AS SHOWN	
Designed	Date 21.06.2023
P.T	Drawn by
Checked	Drawn by A.D
P.T	
Senior Manager: Development Engineering (South)	
Deputy Head: Development Engineering	
Head: Engineering	
Drawing No 49257	Sheet 1 of 2 Sheet

LEGEND	
	PROPOSED FOOTPATH FOR CONSTRUCTION
	BOLLARD
	WARD BOUNDARY
	INFORMAL SETTLEMENT BOUNDARY
	EXISTING SURFACE ROAD
	RAILWAY LINES
	RIVERS/STREAM
	EXISTING FOOTPATH
	ABLUTION FACILITIES
	CONTROL POINTS
	CADASTRAL BOUNDARY
	RETAINING WALL
	STORMWATER PIPE
	STORMWATER MANHOLE
	CONCRETE DRAIN
	EXISTING SEWER MANHOLE (EX SMH)
	EXISTING SEWER PIPE
	EXISTING STORMWATER MANHOLE (EX SWMH)
	EXISTING STORMWATER PIPE
	EXISTING STORMWATER CHANNEL

- NOTES:
- FOR ALL DETAILS REFER TO STANDARD DETAIL DRAWING 49257
 - THE EXISTING STORMWATER CHANNEL POSITIONS ARE APPROXIMATE AND NOT SHOWN TO FULL EXTENT
 - NEW DRY STACK RETAINING WALL REFER TO DETAIL C ON STANDARD DETAIL DRAWING 49257

CONTROL POINTS		
CODE	Y	X
CPM	9736.298	3317372.781
BASE	9223.246	3317668.871
BH1	9480.537	3317535.024
BM2	9625.700	3317506.940
BM3	9603.590	3317377.774
BM4	9518.218	3317393.434