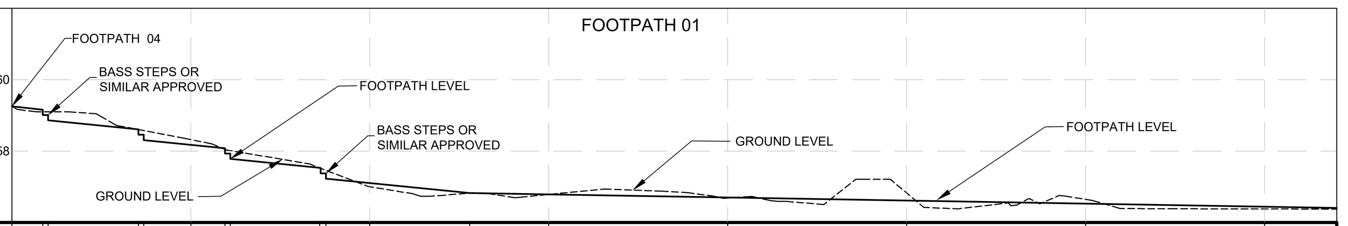
05 February 2024 14:14:34

FOOTPATH 01

SCALE : Vert 1 : 100
Hor 1 : 200
REFER TO LAYOUT DRAWING NO. 49285
SHEET 1 of 3

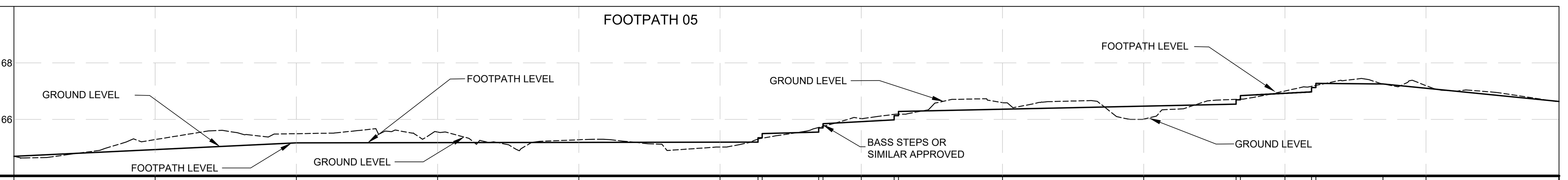


DISTANCE (m)	0	1.73	2.03	7.04	7.37	10	11.90	12.20	17.20	17.50	20	25.59	30	40	50	60	70	74
GROUND LEVELS ON CL		59.100	59.100	58.601	58.601	58.324	58.014	58.014	58.806	58.806	57.003	56.800	56.787	56.686	56.827	56.650	56.381	56.408
CENTRE LINE (CL)	59.256	59.160	59.011	58.601	58.309	58.177	58.082	57.782	57.531	57.463	57.037	56.800	56.787	56.757	56.654	56.552	56.449	56.408
GRADE %	-8.36		-8.36		-8.36			-8.36			-8.36	-0.81%						

FOUNDATION LAYERS: **FOOTPATH TYPE A**
100mm THICK CONCRETE 20MPa/19mm WITH REF. MESH 193
150mm INSITU MATERIAL TO BE COMPACTED TO 90% MOD AASHTO

FOOTPATH 05

SCALE : Vert 1 : 100
Hor 1 : 200
REFER TO LAYOUT DRAWING NO. 49285
SHEET 1 of 3

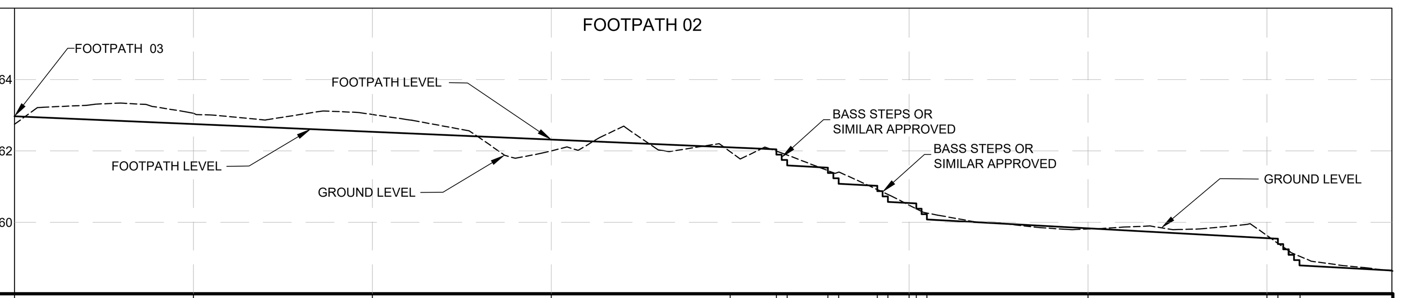


DISTANCE (m)	0	10	20	30	40	50	52.68	52.98	57.00	57.28	60	62.33	62.63	70	80	86.55	86.85	90	91.89	92.19	96.95	100	109
GROUND LEVELS ON CL	64.693	65.286	65.494	65.549	65.278	65.019	65.301	35.334	65.716	65.754	66.030	66.178	66.207	66.592	66.009	66.710	66.715	67.005	67.170	67.202	67.255	67.194	66.634
CENTRE LINE (CL)	64.693	64.930	65.168	65.160	65.153	65.144	65.215	65.515	65.548	65.848	65.920	65.982	66.282	66.362	66.471	66.542	66.842	66.925	66.975	67.275	67.255	67.103	66.634
GRADE %	2.35		0.16					2.65		2.65			2.65				2.65			-1.76		-5.15	

FOUNDATION LAYERS: **FOOTPATH TYPE A**
100mm THICK CONCRETE 20MPa/19mm WITH REF. MESH 193
150mm INSITU MATERIAL TO BE COMPACTED TO 90% MOD AASHTO

FOOTPATH 02

SCALE : Vert 1 : 100
Hor 1 : 200
REFER TO LAYOUT DRAWING NO. 49285
SHEET 1 of 3

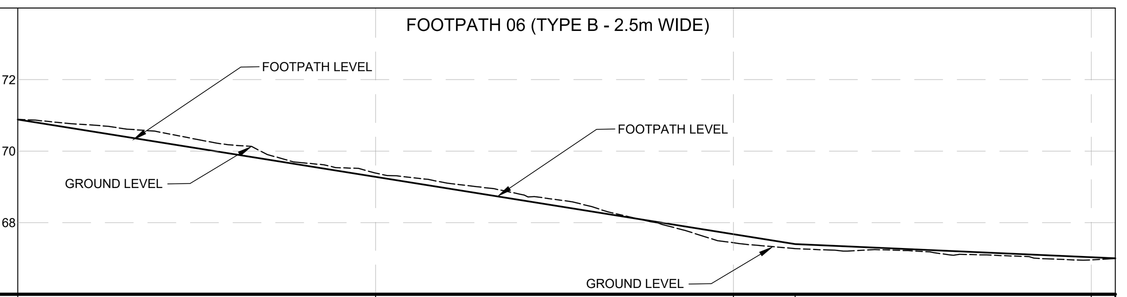


DISTANCE (m)	0	10	20	30	40	42.58	43.18	45.46	46.06	48.22	48.82	50	50.40	51.00	60	70	70.62	71.84	77
GROUND LEVELS ON CL		63.054	63.034	62.003	62.103	61.971	61.596	61.449	61.412	60.921	60.781	60.543	60.232	60.261	59.815	59.635	59.416	59.095	
CENTRE LINE (CL)	62.972	62.755	62.537	62.320	62.103	61.971	61.596	61.534	61.084	60.921	60.574	60.543	60.082	60.261	59.920	59.747	59.545	58.794	58.650
GRADE %	-2.17						-2.81		-7.55		-2.63			-1.73				-2.79	

FOUNDATION LAYERS: **FOOTPATH TYPE A**
100mm THICK CONCRETE 20MPa/19mm WITH REF. MESH 193
150mm INSITU MATERIAL TO BE COMPACTED TO 90% MOD AASHTO

FOOTPATH 06 (TYPE B - 2.5m WIDE)

SCALE : Vert 1 : 100
Hor 1 : 200
REFER TO LAYOUT DRAWING NO. 49285
SHEET 1 of 3

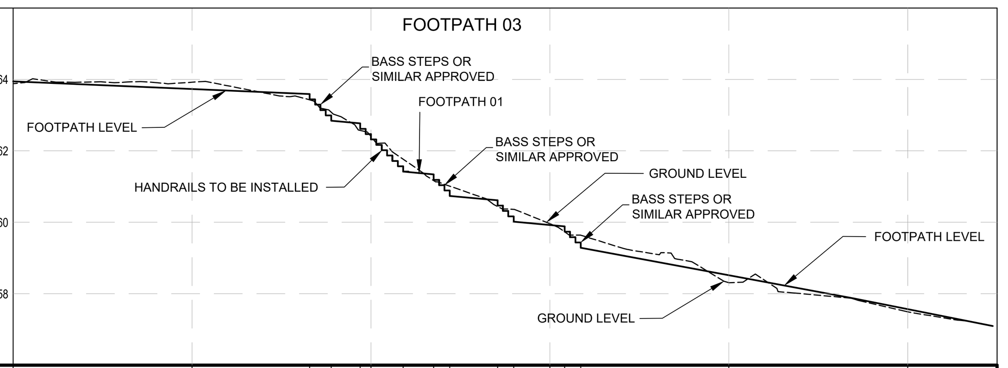


DISTANCE (m)	0	20	40	43.45	60	61
GROUND LEVELS ON CL	70.891	69.386	67.440	67.277	66.963	66.942
CENTRE LINE (CL)	70.891	69.300	67.710	67.404	67.030	67.004
GRADE %	-8.02%			-2.28%		

FOUNDATION LAYERS:
150 mm THICK CONCRETE 30MPa/26mm WITH REF. MESH 311
150mm G4 BASE LAYER COMPACTED TO 97% MOD AASHTO
150mm G7 SUBGRADE LAYER COMPACTED TO 93% MOD AASHTO
150mm INSITU MATERIAL RIP AND RE-COMPACT TO DN 3.7 - 5.7

FOOTPATH 03

SCALE : Vert 1 : 100
Hor 1 : 200
REFER TO LAYOUT DRAWING NO. 49285
SHEET 1 of 3

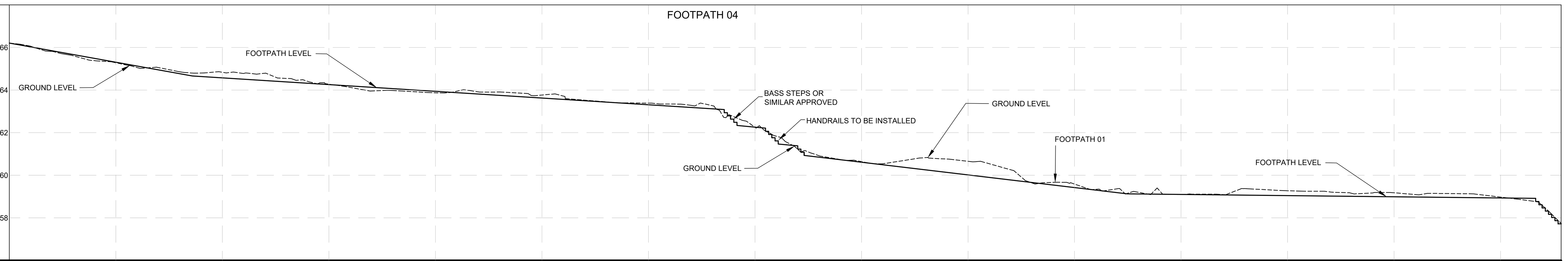


DISTANCE (m)	0	10	16.57	17.77	19.40	20	21.80	23.50	24.40	27.07	27.98	30	30.83	31.72	40	50	55
GROUND LEVELS ON CL		63.921	63.469	62.721	62.506	62.402	61.861	61.605	61.572	60.844	60.161	59.961	58.806	59.735	58.308	57.494	
CENTRE LINE (CL)	63.877	63.574	63.579	62.695	62.455	62.385	61.712	61.642	61.461	60.894	60.006	59.411	59.354	59.286	58.581	57.571	57.096
GRADE %	-1.80			-4.58		-4.58		-4.58		-4.58				-9.38			

FOUNDATION LAYERS: **FOOTPATH TYPE A**
100mm THICK CONCRETE 20MPa/19mm WITH REF. MESH 193
150mm INSITU MATERIAL TO BE COMPACTED TO 90% MOD AASHTO

FOOTPATH 04

SCALE : Vert 1 : 100
Hor 1 : 200
REFER TO LAYOUT DRAWING NO. 49285
SHEET 1 of 3

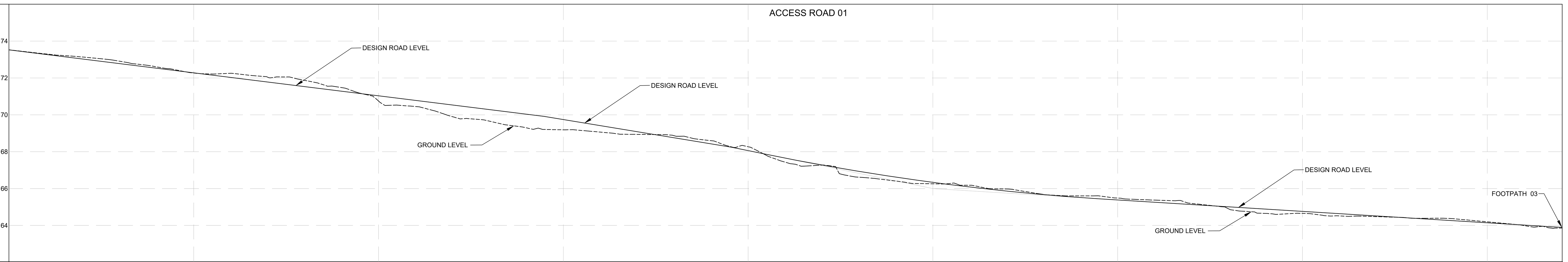


DISTANCE (m)	0	10	17.18	20	30	40	50	60	67.11	68.31	70	70.98	72.18	74.01	74.61	80	90	100	104.95	110	120	130	140	143.22	146
GROUND LEVELS ON CL		65.284	64.790	64.839	64.279	63.874	63.768	63.387	62.714	62.695	62.254	62.065	61.820	61.221	61.153	60.642	60.655	59.587	59.129	59.098	59.274	59.179	58.975	58.770	57.770
CENTRE LINE (CL)	66.207	65.308	64.662	64.573	64.258	63.943	63.627	63.312	63.088	62.338	62.262	62.216	61.466	61.308	60.932	60.648	60.039	59.430	59.130	59.101	59.045	58.990	58.934	58.812	57.830
GRADE %	-8.99		-3.15							-4.58			-4.58		-7.22				-0.56					-50.00	

FOUNDATION LAYERS: **FOOTPATH TYPE A**
100mm THICK CONCRETE 20MPa/19mm WITH REF. MESH 193
150mm INSITU MATERIAL TO BE COMPACTED TO 90% MOD AASHTO

ACCESS ROAD 01

SCALE : Vert 1 : 100
Hor 1 : 200
REFER TO LAYOUT DRAWING NO. 49285
SHEET 1 of 3



DISTANCE (m)	0	20	40	60	80	100	120	140	160	168
GROUND LEVELS ON CL		72.268	70.746	69.185	68.266	66.257	65.481	64.653	64.257	63.856
FINAL DESIGN ROAD LEVELS – LEFT EDGE (HL)	73.523	72.278	71.032	69.782	68.057	66.323	65.381	64.762	64.142	63.893
FINAL DESIGN ROAD LEVELS – CENTRE LINE (CL)	73.523	72.278	71.032	69.782	68.057	66.323	65.381	64.762	64.142	63.893
FINAL DESIGN ROAD LEVELS – RIGHT EDGE (HR)	73.523	72.278	71.032	69.782	68.057	66.323	65.381	64.762	64.142	63.893

VERTICAL ALIGNMENT: 57.917 BVC; VCL=20.279m K=5; EVC 78.196; BVC 82.032; VCL=35.936m K=5; EVC 117.968

GRADE %: -6.227%; -10.283%; -3.096%

HORIZONTAL ALIGNMENT: 202° 58' 00"; BCC 36.222; CURVE 1 R=20.000m I=220° 07' 10"; ECC 48.198; 237° 16' 30"; BCC 80.860; CURVE 2 R=25.000m I=222° 13' 10"; ECC 93.998; 207° 09' 50"; BCC 115.019; CURVE 3 R=77.940m I=213° 57' 10"; ECC 133.488; 220° 44' 30"

SUPERELEVATION: LEFT HAND EDGE 2; 0; RIGHT HAND EDGE 2

ROAD LAYERWORKS:
40mm THICK ASPHALT LAYER
150mm G5 BASE LAYER COMPACTED TO 95% MOD AASHTO
150mm G7 SUBGRADE COMPACTED TO 93% MOD AASHTO
150mm INSITU MATERIAL RIP AND RE-COMPACT TO DN 3.7 - 5.7

0 10 50 100

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

DESIGN CONSULTANT

CESA
GREEN BUILDING COUNCIL
bvi ENGINEERING PROCUREMENT MANAGEMENT
BVi Consulting Engineers KwaZulu-Natal PTY (Ltd)
Registration no. 1998/000203/07
Visit or contact us online at www.bvigroup.co.za
PROVINCE KZN — OFFICE Durban — +27 31 266 8382 — E-MAIL dbn@bvikn.co.za

Approved — Reg. No. — Date

Revision	Date	Description
C	12-01-2024	ISSUED FOR TENDER
B	08-12-2023	ISSUED FOR APPROVAL
A	04-12-2023	ISSUED FOR INTERNAL REVIEW

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		
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-28527

Project Title

PROVISION OF INCREMENTAL SERVICES TO SETTLEMENT EMLAZA CX1

Drawing Title

FOOTPATHS AND ACCESS ROADS LONG SECTIONS

Scales: AS SHOWN
Reference

	Date	Signature
Checked K.P		
Designed P.T		
Drawn by B.S		

Senior Manager: Development Engineering (South)

Deputy Head: Development Engineering

Head : Engineering

Drawing No 49285 — Sheet 2 of 3 Sheets

ISSUED FOR TENDER PURPOSES

49285-002.DWG

M:\DELTEK PROJECT\D34729.00 - ETHEKWINI RFS\CIVIL\TENDER DRAWINGS\CX1\49285-002.DWG