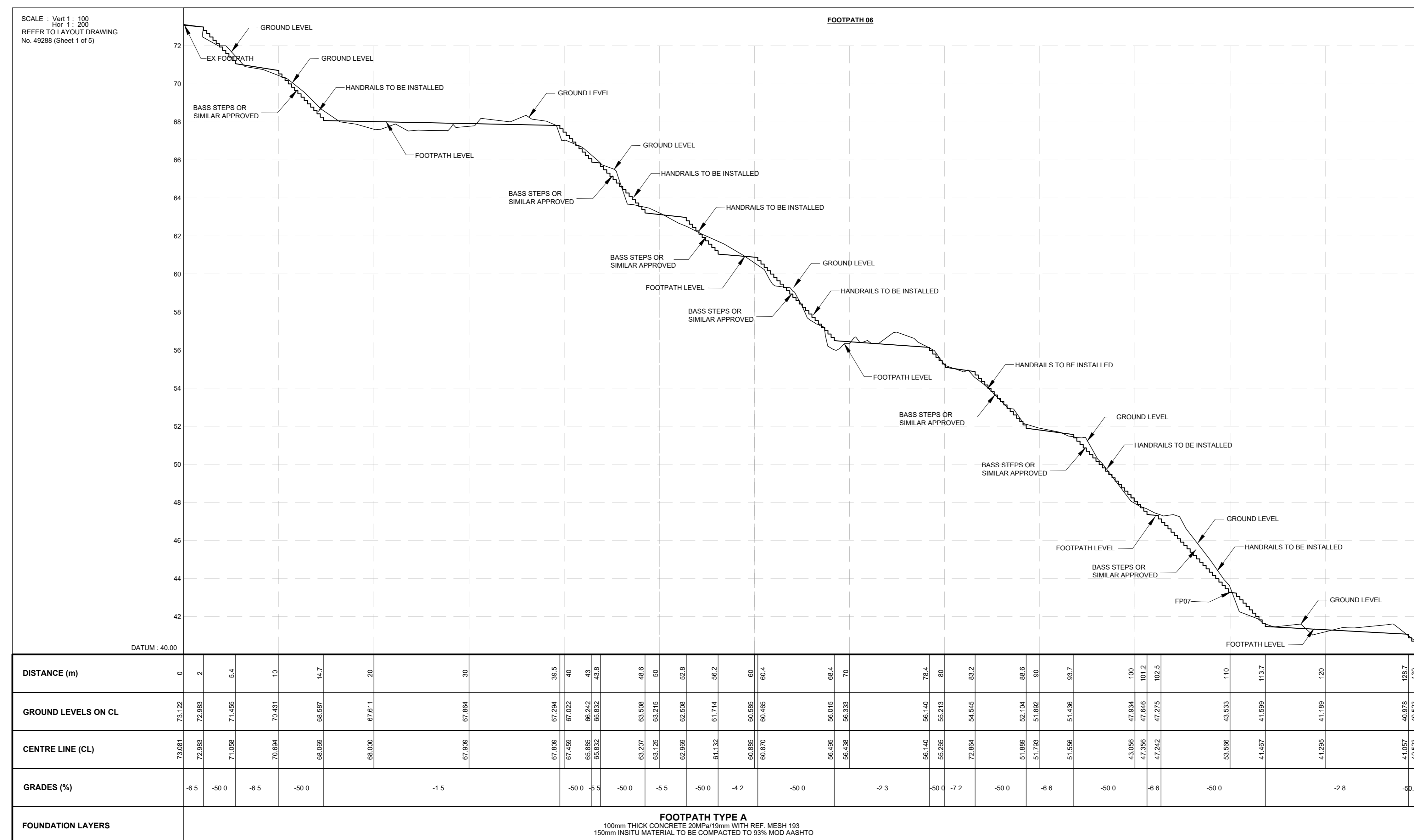
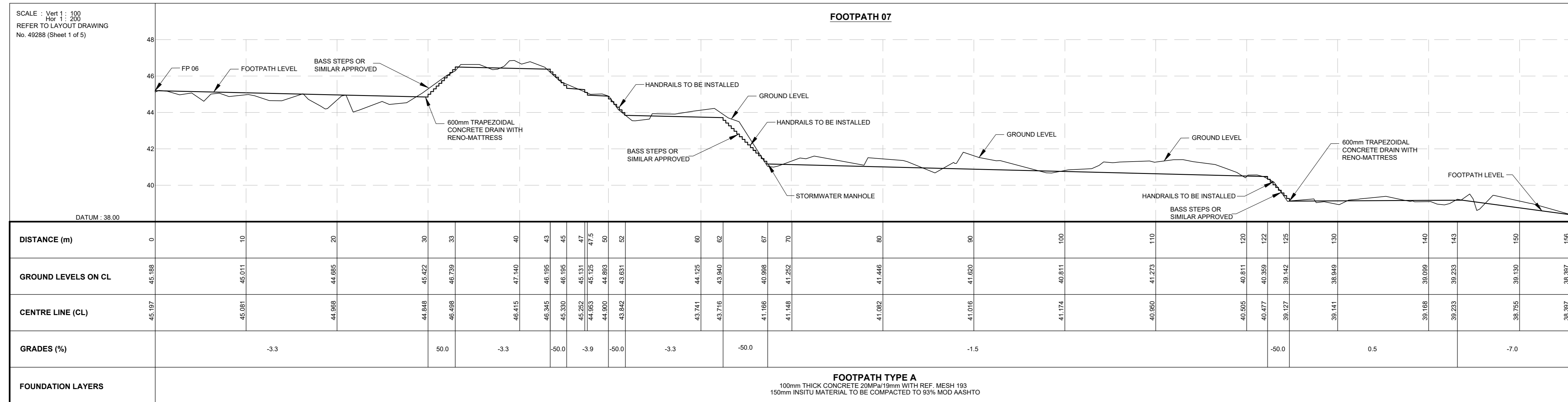
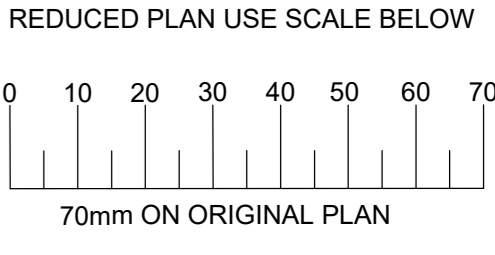




ENGINEERING UNIT
DEVELOPMENT ENGINEERING

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



1. GENERAL NOTES

- 1.1 ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
- 1.2 ALL WORK TO COMPLY WITH THE LATEST EDITION OF THE SANS 1000 SPECIFICATIONS.
- 1.3 ALL CUT SLOPES TO BE SHAPED TO 1:1.5 AND ALL SLOPES TO 1:2 UNLESS OTHERWISE DIRECTED BY THE ENGINEER ON SITE.
- 1.4 ALL MATERIAL TO BE COMPACTED IN LAYERS OF MAX. 150mm TO 90% MOD AASHTO TEST TO BE FORMED PRIOR TO FILLING. HEIGHT OF STEPS TO BE APPROXIMATELY 300mm LPTS.
- 1.5 COMPACTION TESTING TO BE DONE AS FOLLOWS:
(a) TEST FOR 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 ALIGNMENT OF NEW FOOTPATHS IS HIGHER THAN THE PROPOSED 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. EXISTING REINFORCING MUST BE PAINTED WITH SIKATOP AMATEC 110 EC OR SIMILAR APPROVED.
- 1.8 THESE DRAWINGS ARE NOT TO BE SOLD OR ARE SUBJECT TO RECALL. REPRODUCTION OR COPYING RIGHTS ARE RESERVED BY THE CONSULTING ENGINEERS UNDER COPYRIGHT LAW. THESE DRAWINGS HAVE BEEN ISSUED AND RECORDED IN THE FOLLOWING CONDITIONS:
(a) THAT THEY ARE NOT USED IN ANY WAY AGAINST THE INTERESTS AND BENEFITS OF THE CLIENT.
(b) THAT THESE DRAWINGS AND ALL COPIES WILL BE RETURNED TO THE ENGINEER IMMEDIATELY ON DEMAND.
(c) THAT ALL INFORMATION DISCLOSED BY THESE DRAWINGS SHALL BE DEEMED TO BE CONFIDENTIAL.

2. CONCRETE

- 2.1 CONCRETE WORKS TO COMPLY WITH SANS 1000 SECTION G AND SANS 1010 PART 2.
- 2.2 THE FREQUENCY OF CONCRETE WORKS TESTING MUST BE DONE AS FOLLOWS:
(a) AT LEAST ONE SET (1 NO. CUBES) OF SAMPLES FOR EVERY 50m³ OF CONCRETE PLACED.
(b) AT LEAST ONE SET OF SAMPLES SHALL BE TAKEN FROM EACH DAY CASTING.
(c) TESTING MUST BE CARRIED OUT IN ACCORDANCE TO SANS METHOD M1 AND TESTED BY AN APPROVED LABORATORY. RESULTS TO BE SUBMITTED TO THE ENGINEER.
(d) ON THE BASIS OF 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 WITH A LEAST 1m OF SUCH CONCRETE HAS BEEN MIXED AND DISCHARGED FOR THE FOOTPATHS.
- 2.3 CURING AND PROTECTION SHALL BE ACCORDING TO SANS 1010:300:5.3.3.
- 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 SHUTTLING AND FIXING OF THE REINFORCEMENT FOR THE FOOTPATHS.
- 2.6 MIN. CONCRETE CUBE STRENGTH AT 28 DAYS:
FOOTPATH 20 MPa
DRAIN 20 MPa
KERS BASE AND HAUNCH 20 MPa
STEP CONCRETE BASE 15 MPa
RETAINING WALL BASE 20 MPa

FOR TENDER PURPOSES

DESIGN CONSULTANT

bvi ENGINEERING PROGRAMME MANAGEMENT INFRASTRUCTURE
BVI Consulting Engineers KwaZulu-Natal PTY (Ltd)
Visit or contact us online at www.bvi.co.za
PROVINCE OFFICE Durban +27 31 258 5352 E-MAIL: info@bvi.co.za

Revision	Date	Description
A	26-01-2024	ISSUED FOR TENDER

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

Acquisitions completed

DATE	Engineer

UNDERGROUND SERVICES CHECKED

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

Contract No. 3V-28529

Project Title

PROVISION OF INCREMENTAL SERVICES TO SETTLEMENT UMLAZI

AREA : V-V5

Drawing Title

FOOTPATH LONGSECTIONS

Scales	Reference
AS SHOWN	

Checked	Date	Signature
KP		
Designed		
PT		
Drawn by		
MS		

Senior Manager: Development Engineering (South)

Deputy Head: Development Engineering

Head : Engineering

Drawing No	Sheet
49288	4
	of 5 Sheets