



RELEVANT STANDARDS			
1.	SABS 5004 - GENERAL		
2.	SABS 5004 AA - GENERAL (SMALL WORKS)		
3.	SABS 5004 AD - GENERAL (DAMS)		
4.	SABS 5004 D - EARTHWORKS		
5.	SABS 5004 DA - EARTHWORKS (SMALL WORKS)		
6.	SABS 5004 DB - STEEL LINE GARDEN DAMS		
7.	SABS 5004 DK - GARDENS AND FITTINGS		
8.	SABS 5004 - DESIGN, SELECTION & INSTALLATION OF DRAINAGE MEMBRANES		
GENERAL NOTES			
THIS DRAWING IS TO BE DESIGN IN CONJUNCTION WITH ALL OTHER ENGINEERS DRAWINGS FOR THE CELL DEVELOPMENT AND LANDFILL SITE.			
ANY DISCREPANCIES & AMBIGUITIES ON THE ENGINEERS DRAWINGS TO BE REPORTED TO ENVITECH SOLUTIONS (PTY) LTD IMMEDIATELY.			
LEVELS AND DIMENSIONS TO BE CHECKED BEFORE ANY CONSTRUCTION WORK COMMENCES. DIMENSIONS MUST NOT BE SCALED.			
EARTHWORKS NOTES			
1.	ALL IMPORTED FILL TO BE OF QUALITY MATERIAL OR BETTER UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.		
2.	ALL LEVELS SHOWN ARE BLANK EARTHWORKS LEVELS UNLESS OTHERWISE ADDED.		
3.	BATTER SLOPES TO BE 1:1 UNLESS OTHERWISE ADDED.		
4.	ALL OF FILL MATERIAL TO BE COMPACTED TO MINIMUM 90% MODIFIED ASHBY DENSITY UNLESS OTHERWISE NOTED. IN LAYERS NOT EXCEEDING 150mm THICK.		
5.	ALL CLAY MATERIAL TO BE COMPACTED TO MINIMUM OF 100% STANDARD PROCTOR DENSITY AT OMC TO OMC 50% UNLESS OTHERWISE NOTED. IN LAYERS NOT EXCEEDING 150mm THICK.		
6.	BETTER AND DIMENSIONS TO BE COMPACTED TO BE.		
7.	CONTRACTOR TO ENSURE THAT ALL SITE ACTIVITIES ARE IN ACCORDANCE WITH OCCUPATIONAL HEALTH AND SAFETY ACT (NO. 94 OF 1995) AND ALL RELATED REGULATIONS.		
8.	ALL WORKS TO COMPLY WITH THE REQUIREMENTS OF SABS 1000.		
9.	ACCURACY OF WORK TO COMPLY WITH SABS 5004 DEGREE OF ACCURACY.		
10.	TESTING.		
11.	ONE STANDARD PROCTOR DENSITY DETERMINATION TO BE CARRIED OUT FOR EACH SET OF TESTS ON HOMOGENEOUS MATERIAL.		
12.	SETS OF DENSITY TEST TO COMPRISE BASE PREPARATION LAYER, 4 TESTS PER 3000m ² PER EVERY 150mm THICK LAYER COMPACTED CLAY LAYER, 4 TESTS PER 3000m ² PER EVERY 150mm THICK LAYER.		
13.	FINISHED BLANK EARTHWORKS SHALL BE SMOOTH AND FREE FROM PROTRUSIONS THAT COULD COMPROMISE THE GEOMEMBRANE. UNLESS ALL EARTHWORKS SHALL BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE ANY GEOTECHNICAL AND GEOMEMBRANE ARE Laid.		
14.	BASE PREPARATION SHALL INCLUDE TOPPING AND TO BE COMPACTED AND 150mm THICK WITH MATERIAL TO 100% STANDARD PROCTOR DENSITY AT OMC TO OMC 50%.		
15.	ALL DISPERSED FILL MATERIAL SHALL BE LAYER GRAVEL MATERIAL AND COMPACTED TO 100% STANDARD PROCTOR DENSITY AT OMC TO OMC 50% IN LAYERS NOT EXCEEDING 150mm. GRS SHALL NOT BE LESS THAN 1% AND THE FILL MUST BE FREE FROM FILL.		
16.	ALL GEOTECHNICAL AND/OR TRENCHES SHALL BE BACKFILLED WITH SELECTED CLAY MATERIAL OR BETTER AND COMPACTED IN 150mm THICK LAYERS TO 100% STANDARD PROCTOR DENSITY AT OMC TO 50%.		

SETTING OUT DATA			
NAME	Y	X	LEVEL
CS01	-42941.535	3729015.928	201.225
CS02	-42942.455	3729019.195	200.425
CS03	-42937.567	3729027.918	200.425
CS04	-42934.300	3729028.839	201.225
CS05	-42928.727	3729038.784	201.225
CS06	-42958.917	3729055.700	201.225
CS07	-42955.984	3729060.935	201.067
CS08	-42957.135	3729065.018	200.067
CS09	-42958.880	3729065.596	200.067
CS10	-42962.963	3729064.845	201.067
CS11	-42965.896	3729059.611	201.225
CS12	-42964.745	3729055.527	200.225
CS13	-42963.001	3729054.550	200.225
CS14	-42967.810	3729060.683	201.225
CS15	-43013.860	3728997.306	201.225
CS16	-42966.758	3728970.913	201.225
CS17	-42971.130	3728986.430	197.425
CS18	-42997.098	3729000.981	197.425
CS19	-42964.543	3729045.785	197.425
CS20	-42944.245	3729034.412	197.425

LEGEND:	
	LANDFILL FOOTPRINT
	CELL SEPARATION BERMS
	CADASTRAL BOUNDARY
	SUB-SOIL EXTRACTION RISER PIPE
	LEACHATE DETECTION RISER PIPE
	LEACHATE RETENTION PIPELINE
	LEACHATE RETENTION PIPELINE MARKING
	SUB-SOIL DRAINAGE SYSTEM

AMENDMENTS				DESIGNED	KPM		CONSULTANT	CLIENT	CONSTRUCTION OF THE CAPE WINELANDS DISTRICT MUNICIPALITY'S REGIONAL LANDFILL SITE - ERF 4014, WORCESTER	SCALE	1:250	PAPER SIZE	A0
NO.	DATE	APPROVED	DESCRIPTION	DESIGN CHECKED						GF	ENGINEER	JOB NUMBER	ES-754-2022
A	18-01-2023	KPM	ISSUED FOR APPROVAL				<div>envitech solutions</div> <div>Gauteng: 22 Seventh Avenue Northmead, 1501 Meyrickton Place South Africa Tel: +27-11-425 2810 Fax: +27-11-425 4731 info@envitech.co.za</div> <div>Kwa-Zulu Natal: Unit B1 Meyrickton Park Gilettas 3610 Tel: +27-31-023 0980 Fax: +27-11-404 3555 info@envitech.co.za</div>	<div><div>CAPE WINELANDS DISTRICT MUNICIPALITY • MUNISIPALITEIT • UMASIPALA</div></div>	CONTAMINATED STORMWATER DAM LAYOUT PLAN	SHEET NO.	1 OF 1		
O	27-06-2023	KPM	ISSUED FOR TENDER			DRAWING NO.				ES-754-2022-029-Rev0			