

**Drawing No. 3145 – C001**



**LEGEND**

- EXISTING POWERLINES
- PROPOSED STORMWATER CHANNELS
- EXISTING STORMWATER CHANNELS
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED LEACHATE COLLECTION AND MANHOLE
- PROPOSED POLLUTION CONTROL DAM
- PROPOSED OFFICES & PLANT YARD

**ABBREVIATIONS USED**

NGL : NATURAL GROUND LINE  
mbgl : METRES BELOW GROUND LEVEL

Existing groundwater monitoring boreholes	Co-ordinates, WGS 84 Geographic	Depth from NGL (m)	Water level (mbgl)	Use	
	S	E			
MA 01	-23.71	27.58282	40	17.63	Monitoring
MA 02	-23.7306	27.58842	40	16.45	Monitoring
MA 03	-23.7213	27.61943	40	Dry	Monitoring
MA 04	-23.7213	27.61943	40	Dry	Monitoring
GHT 01	-23.7286	27.60345	35	Dry	Monitoring
GHT 02	-23.7289	27.59853	35	17.1	Monitoring
P 12	-23.6984	27.61783	15	Dry/collapsed	Monitoring
P 01	-23.7012	27.619	30	6.21	Monitoring
P 03	-23.6972	27.61782	40	14.26	Monitoring
P 02	-23.7041	27.60293	40	21.47	Monitoring
P 31	-23.7236	27.60577	30	14.06	Monitoring
P 29	-23.7204	27.61705	30	5.63	Monitoring
P 23	-23.7143	27.62116	40	8.16	Monitoring
P 20	-23.6973	27.62408	40	7.09	Monitoring
P 21	-23.7015	27.6235	40	5.72	Monitoring
HP 01	-23.6854	27.60383	Unknown	Approx 7m	Garden irrigation & stock watering

Table extracted from Hydrology Report by GGS, 2013

**NOTES:**

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DESIGN REPORT.
- EXISTING ASH PILE IS A LIVE FACILITY.
- ESKOM HAVE PROGRESSIVELY CLOSED EXISTING ASH PILE TO LIMIT EXPOSURE OF ASH TO THE ENVIRONMENT AND LIMIT CONTAMINATED STORMWATER RUN OFF.

**FOR DISCUSSION PURPOSES ONLY**

REF. DRAWINGS	DRG. No.'s	DESCRIPTION	DESIGNED	CHECKED	DRAWN	DATE	SIGNED	CHECKED
	3145-C002	FLOOR & LEACHATE - SITE ALTERNATIVE 1	L. WALLACE	R. EMERY	A. DE STEFANIS	2015-09-22		R. EMERY
	3145-C003	SITE LAYOUT - SITE ALTERNATIVE 2						
	3145-C004	FLOOR & LEACHATE - SITE ALTERNATIVE 2						
	3145-C005	3D MODELS OF LANDFILL SITE ALTERNATIVES						
	3145-C006	TYPICAL LAYERWORKS & CONSTRUCTION DETAILS						
		AMENDMENTS						

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2015-09-22

CLIENT  
16r CLIENT

PROJECT  
**MATIMBA ASH DISPOSAL FACILITY**

CONTRACT No. : NONE

TITLE  
**LANDFILL SITE LAYOUT SITE ALTERNATIVE 1**

DATE  
SEPTEMBER 2015

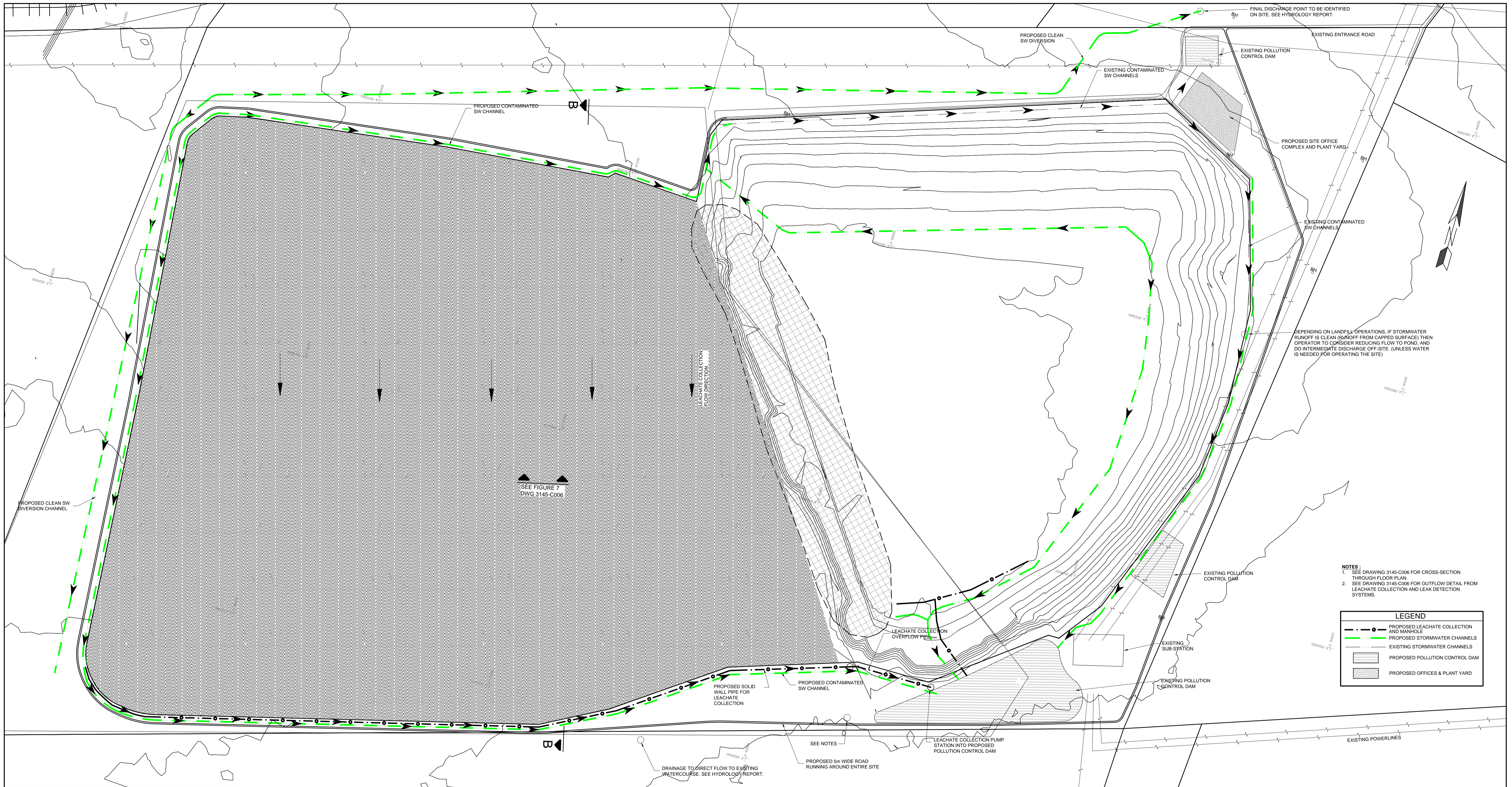
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J & G DRAWING No.  
**3145-C001-P-RevC**

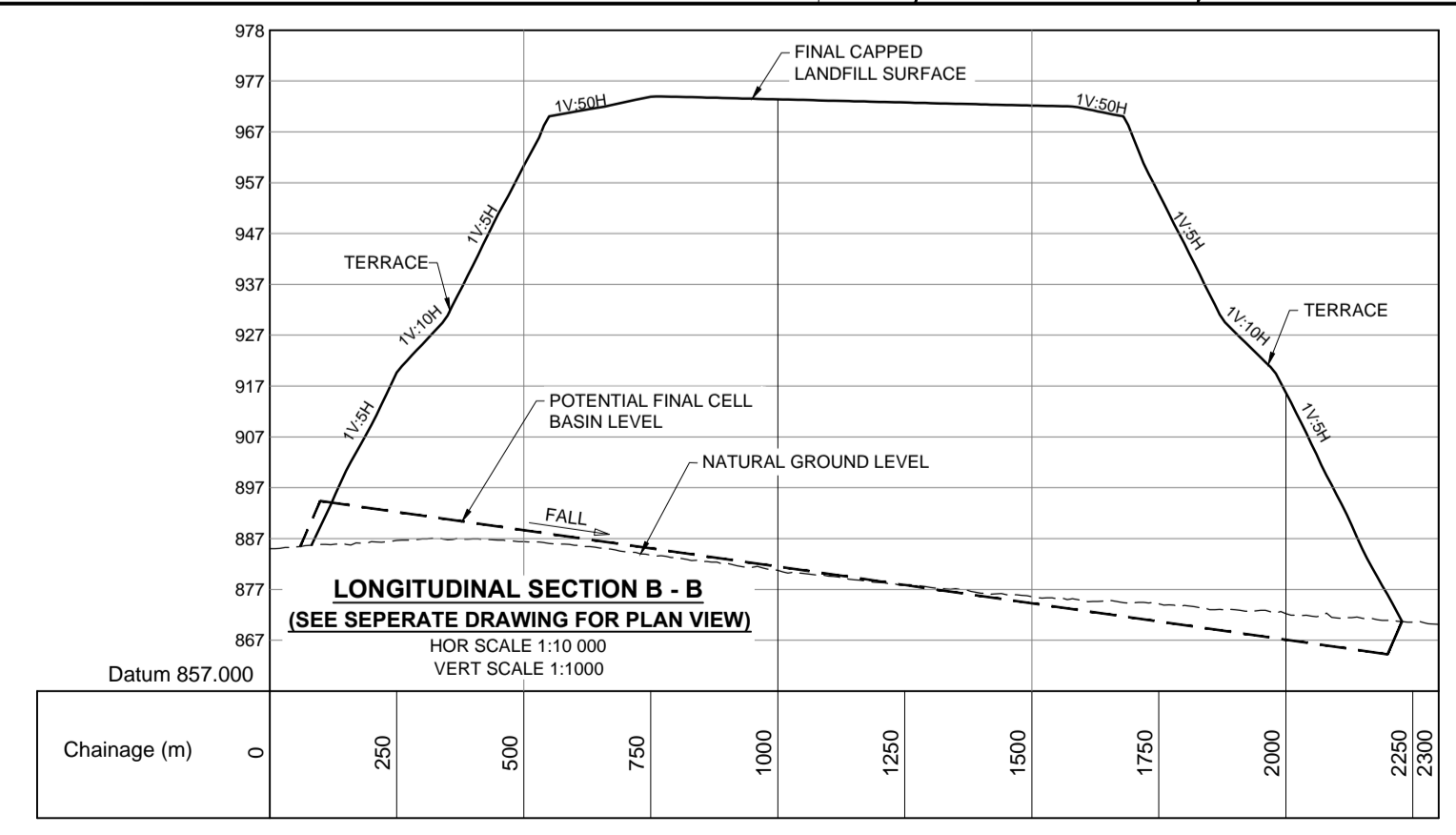
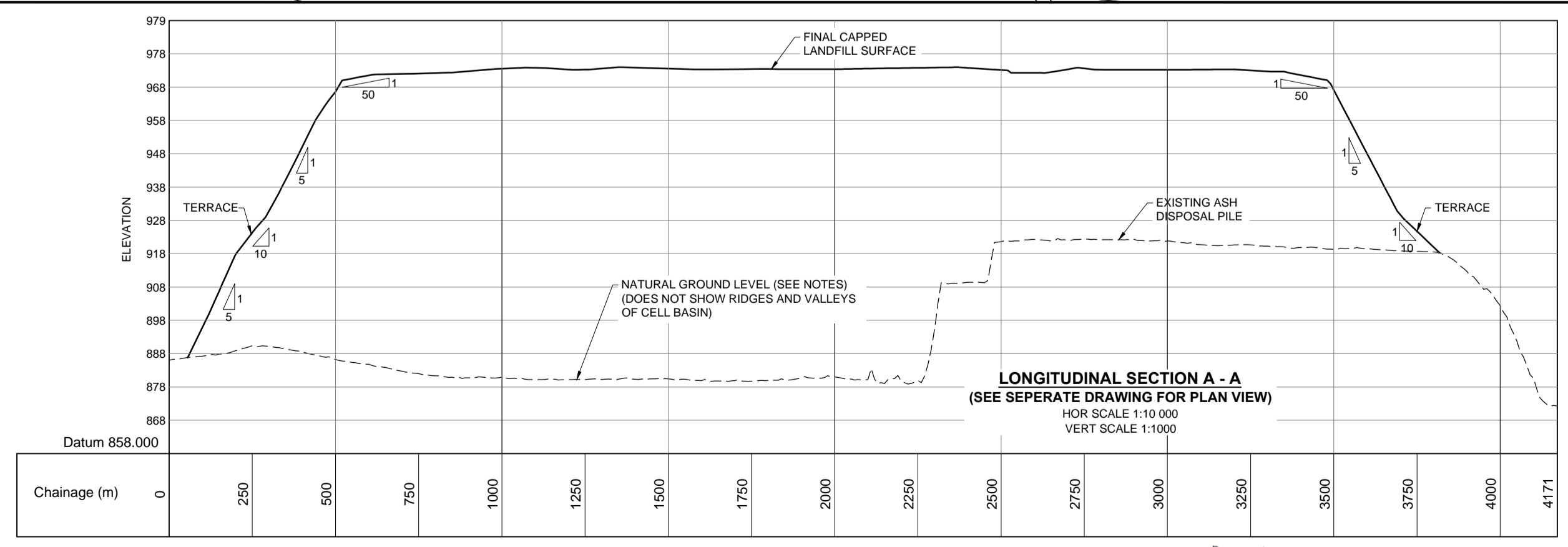
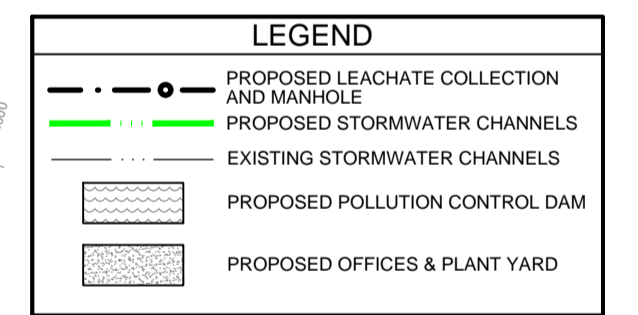
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**Drawing No. 3145 – C002**



- NOTES**
- SEE DRAWING 3145-C006 FOR CROSS-SECTION THROUGH FLOOR PLAN.
  - SEE DRAWING 3145-C006 FOR OUTFLOW DETAIL FROM LEACHATE COLLECTION AND LEAK DETECTION SYSTEMS.



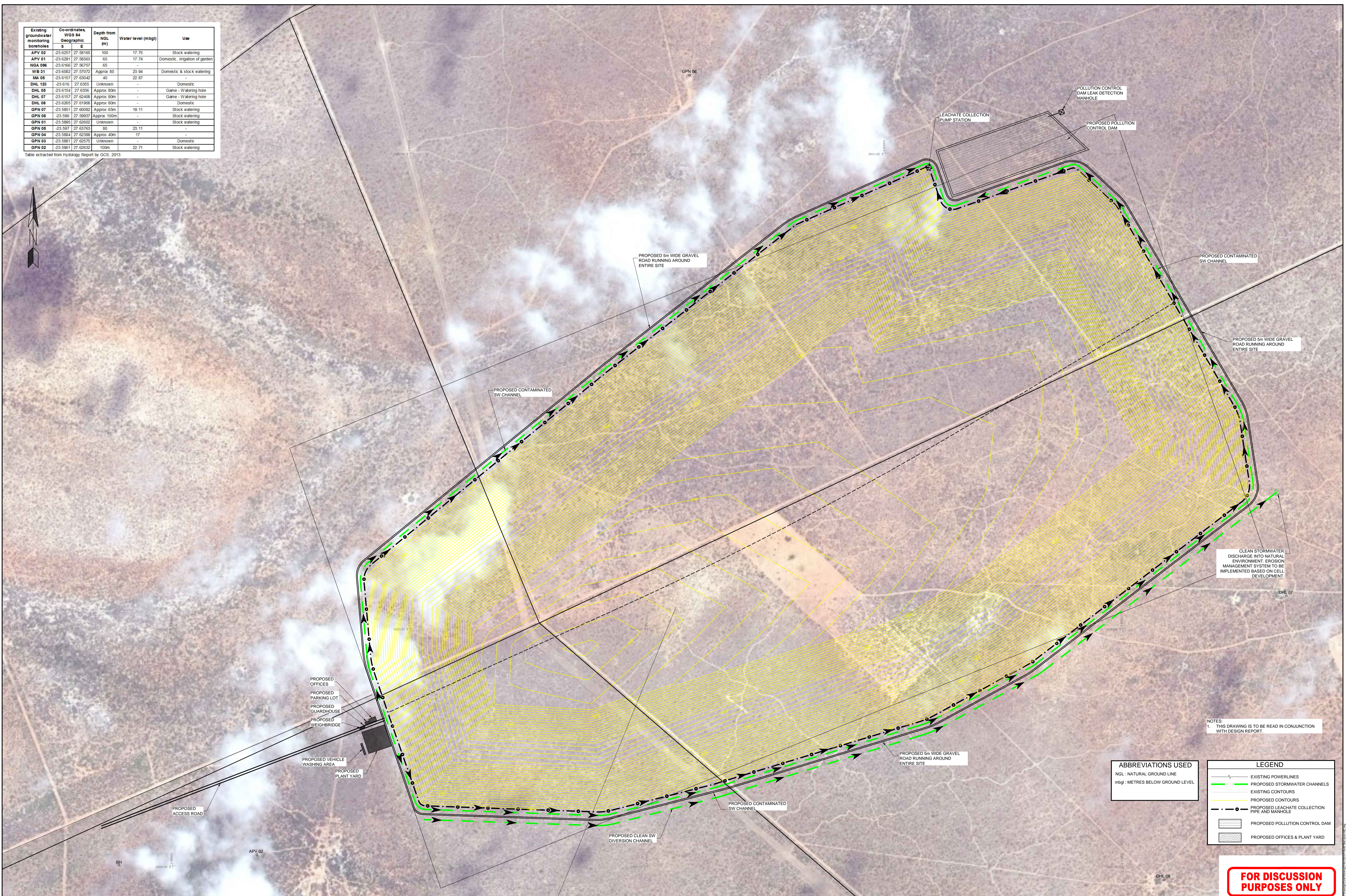
**FOR DISCUSSION PURPOSES ONLY**

REF. DRAWINGS	DRG. No.'s	DESCRIPTION	DESIGNED	L. WALLACE	CAPE TOWN	Telephone	ROYAL HASKINGDHV	CLIENT	PROJECT	CONTRACT No.	CONTRACT No. : NONE	DATE	SEPTEMBER 2015	SCALE	1:5000	
	3145-C002	FLOOR & LEACHATE - SITE ALTERNATIVE 1	B	ISSUED FOR DISCUSSION (REVISION)	2015-09-22	CHECKED	R. EMERY	14 CENTRAL SQUARE	FOR CLIENT	MATIMBA ASH DISPOSAL FACILITY	TITLE	J & G DRAWING No.	3145-C002-P-RevC	CLIENT DRAWING No.	NONE	
	3145-C003	SITE LAYOUT - SITE ALTERNATIVE 2	B	ISSUED FOR DISCUSSION (REVISION)	2015-03-09	DRAWN	A. DE STEFANIS	PINELANDS 7405	2015-09-22	FLOOR PLAN & LEACHATE COLLECTION SYSTEM - SITE ALTERNATIVE 1	CAD FILENAME	© 2015 Royal HaskoningDHV. All Rights Reserved. 2015-09-22 14:00:00. P:\Projects\3145-C002-P-RevC\FloorPlan.dwg				
	3145-C004	FLOOR & LEACHATE - SITE ALTERNATIVE 2	A	ISSUED FOR DISCUSSION	2014-07-10			P.O. BOX 38961								
	3145-C005	3D MODELS OF LANDFILL SITE ALTERNATIVES						7405								
3145-C006	TYPICAL LAYERWORKS & CONSTRUCTION DETAILS															
AMENDMENTS			DATE	SIGNED	CHECKED	R. EMERY										

**Drawing No. 3145 – C003**

Existing groundwater monitoring boreholes	Co-ordinates, WGS 84 Geographic		Depth from NGL (m)	Water level (mbgl)	Use
	S	E			
APV 02	-23 6297	27 58165	100	17.75	Stock watering
APV 01	-23 6291	27 58563	65	17.74	Domestic, irrigation of garden
NGA 096	-23 6166	27 56757	65	-	-
WB 01	-23 6262	27 57072	Approx 80	23.94	Domestic & stock watering
MA 05	-23 6157	27 63002	40	22.67	-
DHL 123	-23 6116	27 6355	Unknown	-	Domestic
DHL 05	-23 6154	27 6336	Approx 80m	-	Game - Watering hole
DHL 07	-23 6157	27 62408	Approx 80m	-	Game - Watering hole
DHL 08	-23 6285	27 61908	Approx 80m	-	Domestic
GPN 07	-23 5851	27 60082	Approx 65m	19.11	Stock watering
GPN 06	-23 596	27 59537	Approx 100m	-	Stock watering
GPN 01	-23 5895	27 62502	Unknown	-	Stock watering
GPN 05	-23 597	27 63763	80	23.11	-
GPN 04	-23 5884	27 62388	Approx 40m	17	-
GPN 03	-23 5881	27 62570	Unknown	-	Domestic
GPN 02	-23 5901	27 62632	100m	22.71	Stock watering

Table extracted from Hydrology Report by GCS, 2013



NOTES:  
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DESIGN REPORT.

ABBREVIATIONS USED		LEGEND	
NGL	: NATURAL GROUND LINE		EXISTING POWERLINES
mbgl	: METRES BELOW GROUND LEVEL		PROPOSED STORMWATER CHANNELS
			EXISTING CONTOURS
			PROPOSED CONTOURS
			PROPOSED LEACHATE COLLECTION PIPE AND MANHOLE
			PROPOSED POLLUTION CONTROL DAM
			PROPOSED OFFICES & PLANT YARD

**FOR DISCUSSION PURPOSES ONLY**

REF. DRAWINGS	DRG. No.'s	DESCRIPTION	DESIGNED	CHECKED	DRAWN	DATE	SIGNED	DATE
	3145-C002	FLOOR & LEACHATE - SITE ALTERNATIVE 1	T. McNEIL	R. EMERY	A. DE STEFANIS	2015-03-09		
	3145-C003	SITE LAYOUT - SITE ALTERNATIVE 2						
	3145-C004	FLOOR & LEACHATE - SITE ALTERNATIVE 2						
	3145-C005	3D MODELS OF LANDFILL SITE ALTERNATIVES						
	3145-C006	TYPICAL LAYERWORKS & CONSTRUCTION DETAILS						
	No.	AMENDMENTS						

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16F CLIENT

DATE 2015-09-22

Royal  
HaskoningDHV  
Enhancing Society together

**MATIMBA  
ASH DISPOSAL  
FACILITY**

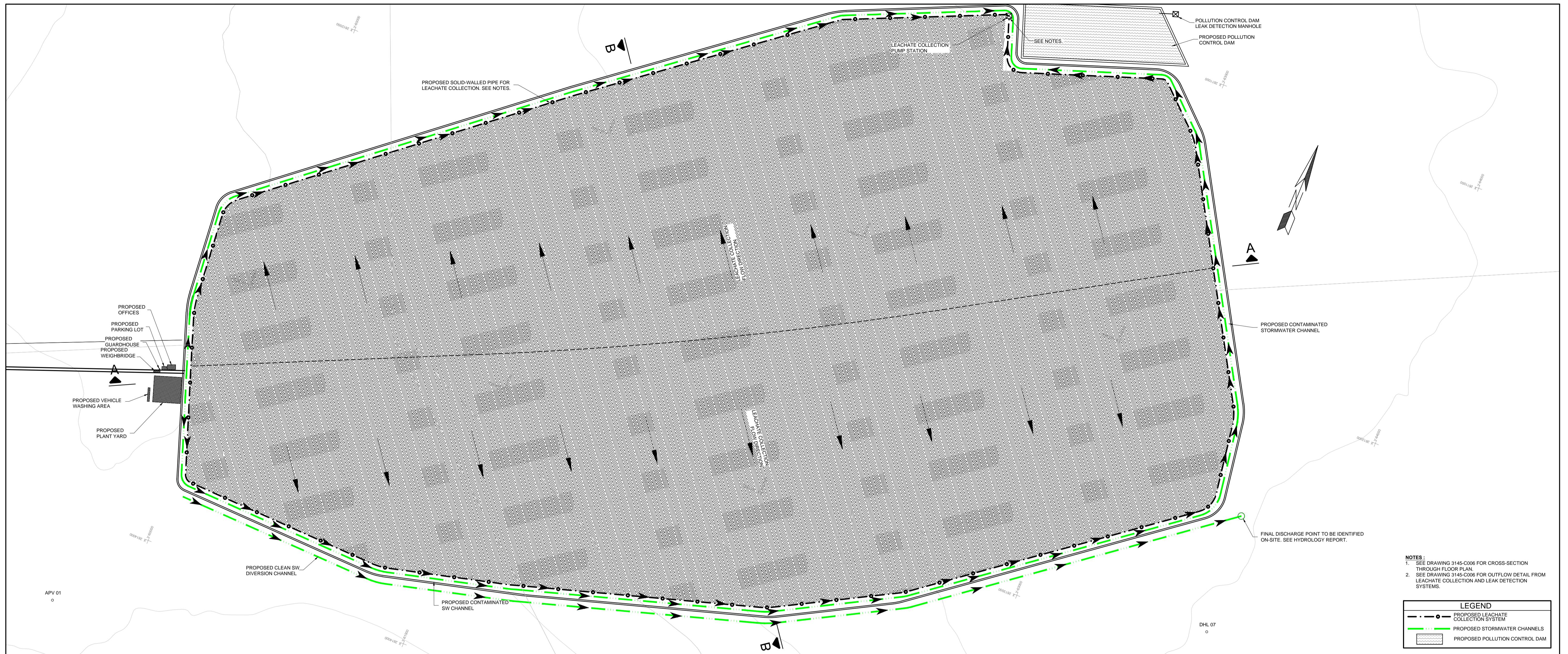
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DATE MARCH 2015  
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CLIENT DRAWING No. NONE

DATE MARCH 2015  
SCALE 1:5000  
J & G DRAWING No. 3145-C003-P-RevB  
CLIENT DRAWING No. NONE

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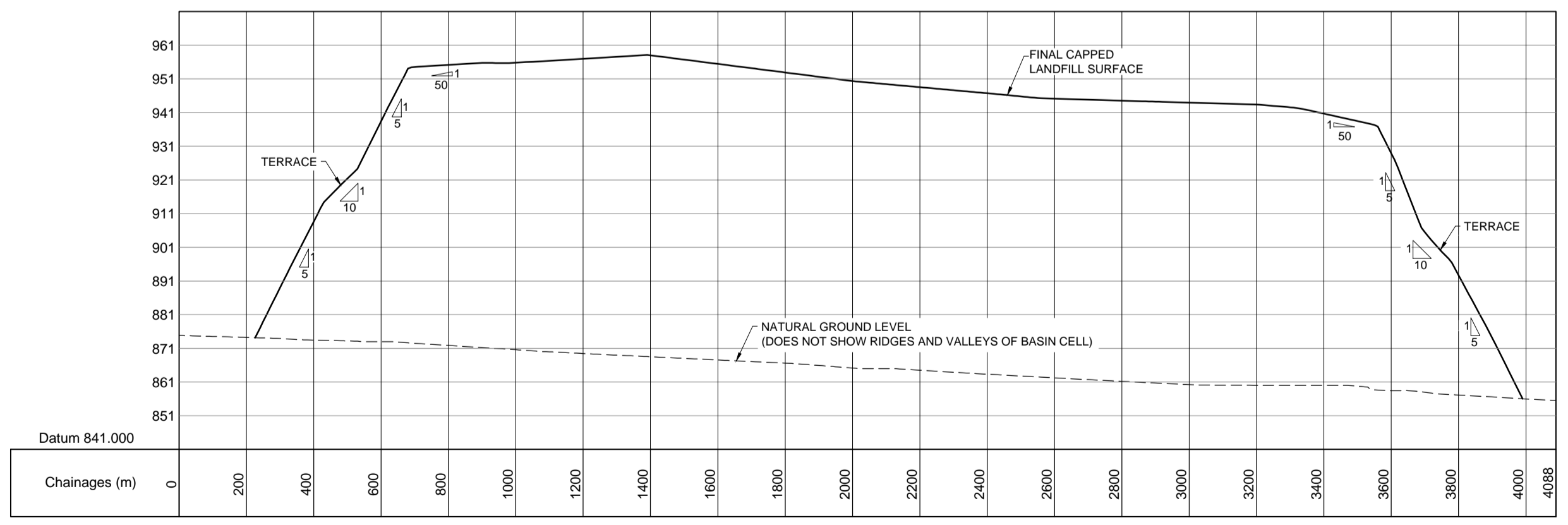
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**Drawing No. 3145 – C004**

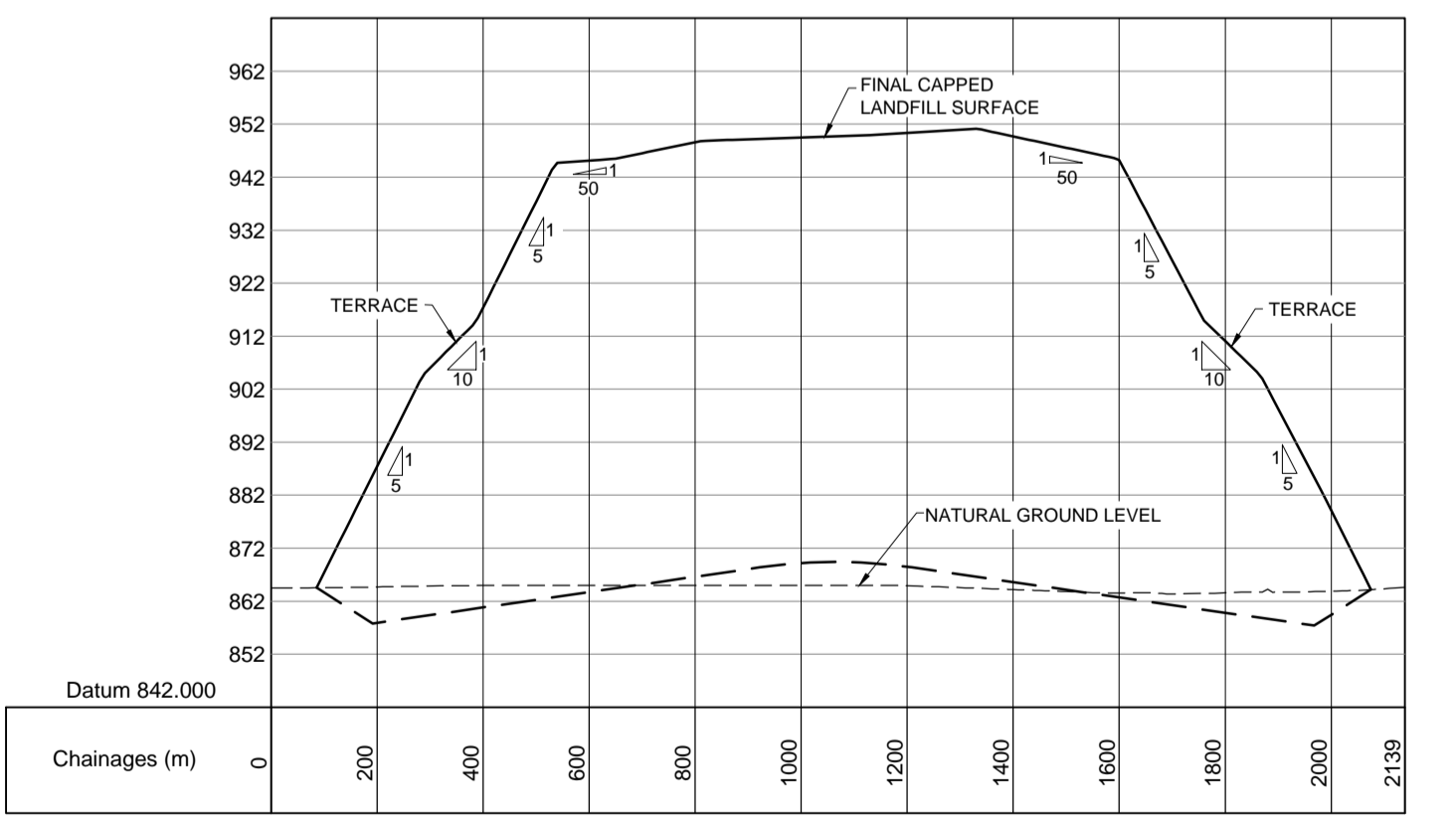


- NOTES:**
1. SEE DRAWING 3145-C006 FOR CROSS-SECTION THROUGH FLOOR PLAN.
  2. SEE DRAWING 3145-C006 FOR OUTFLOW DETAIL FROM LEACHATE COLLECTION AND LEAK DETECTION SYSTEMS.

LEGEND	
	PROPOSED LEACHATE COLLECTION SYSTEM
	PROPOSED STORMWATER CHANNELS
	PROPOSED POLLUTION CONTROL DAM



**LONGITUDINAL SECTION A - A**  
 HOR. SCALE 1:10 000  
 VERT. SCALE 1:1000



**LONGITUDINAL SECTION B - B**  
 HOR. SCALE 1:10 000  
 VERT. SCALE 1:1000

**FOR DISCUSSION PURPOSES ONLY**

REF. DRAWINGS	DRG. No.'s	DESCRIPTION	DESIGNED	CHECKED	DRAWN
	3145-C002	FLOOR & LEACHATE - SITE ALTERNATIVE 1	T. McNEIL	R. EMERY	A. DE STEFANIS
	3145-C003	SITE LAYOUT - SITE ALTERNATIVE 2			
	3145-C004	FLOOR & LEACHATE - SITE ALTERNATIVE 2			
	3145-C005	3D MODELS OF LANDFILL SITE ALTERNATIVES			
	3145-C006	TYPICAL LAYERWORKS & CONSTRUCTION DETAILS			
No.		AMENDMENTS	DATE	SIGNED	CHECKED
					R. EMERY

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TO: JEFFARES & GREEN (Pty) Ltd

FOR CLIENT: \_\_\_\_\_

DATE: 2015-09-22

DATE: \_\_\_\_\_

CLIENT:

PROJECT: **MATIMBA ASH DISPOSAL FACILITY**

CONTRACT No.: NONE

TITLE: **FLOOR PLAN & LEACHATE COLLECTION SYSTEM - SITE ALTERNATIVE 2**

DATE: MARCH 2015

SCALE: 1:5000

J & G DRAWING No.: **3145-C004-P-RevB**

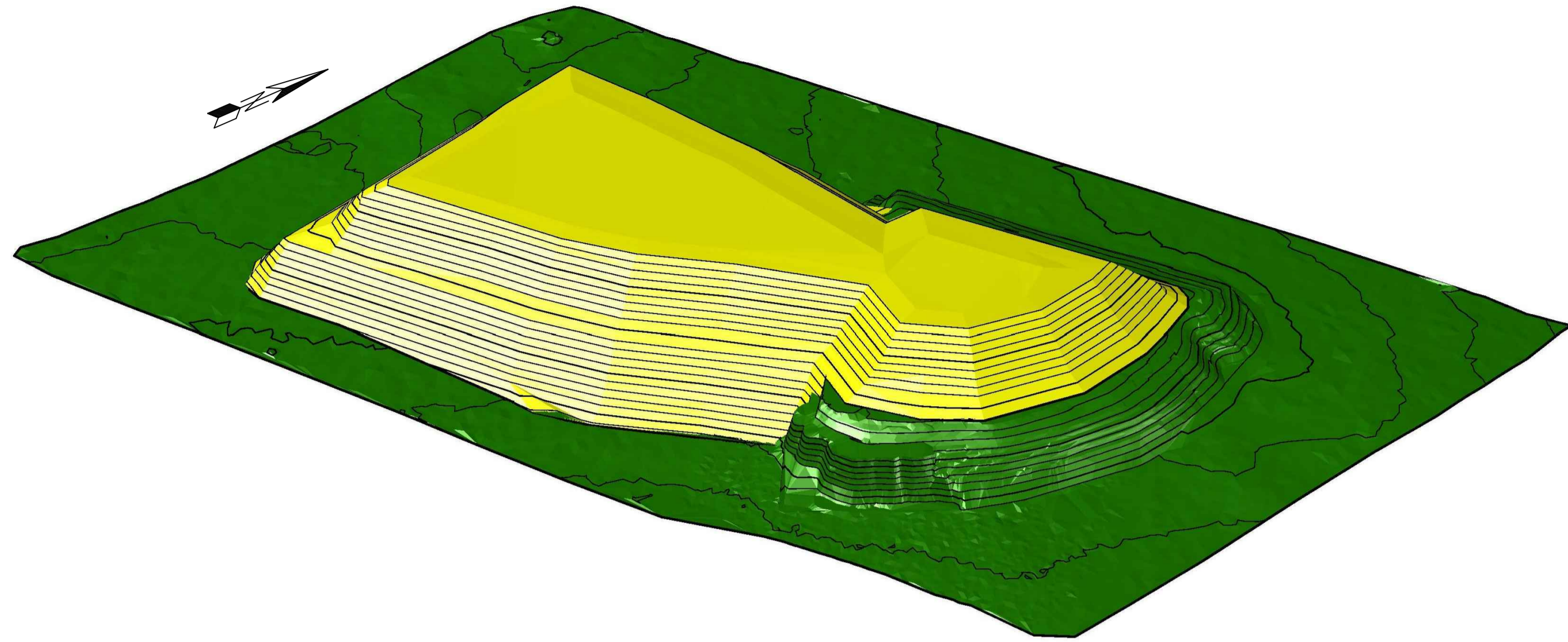
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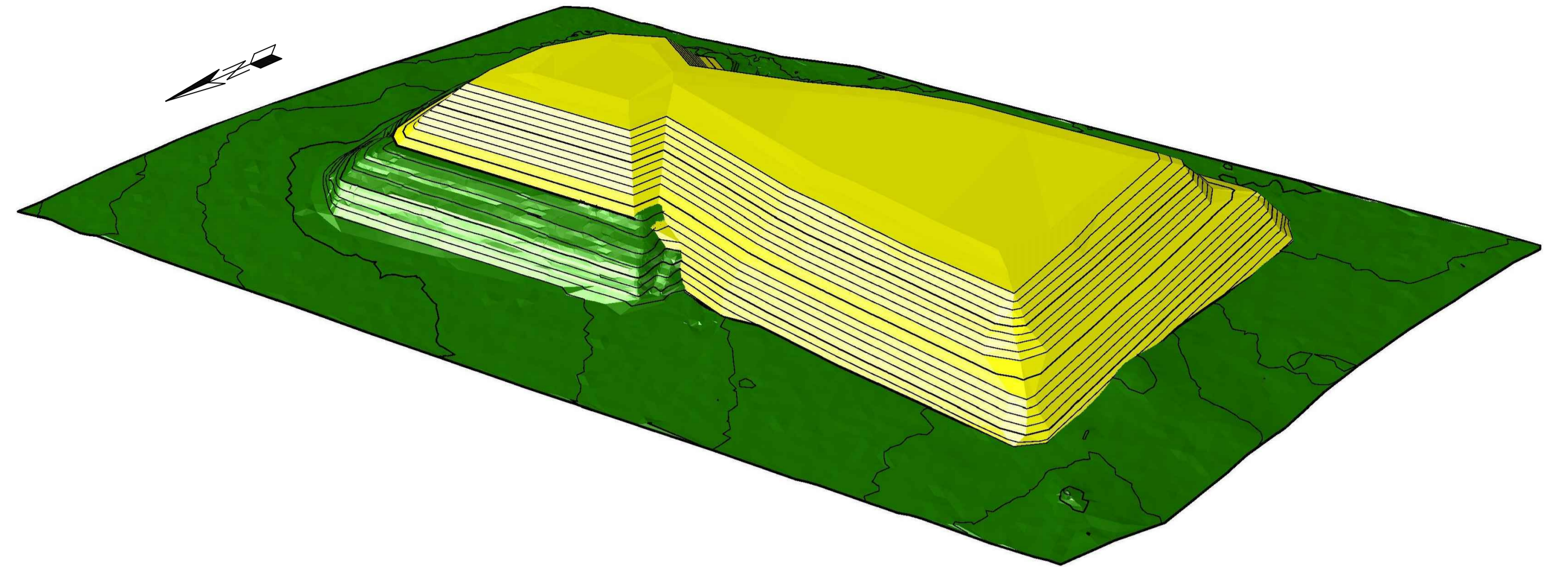
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**Drawing No. 3145 – C005**

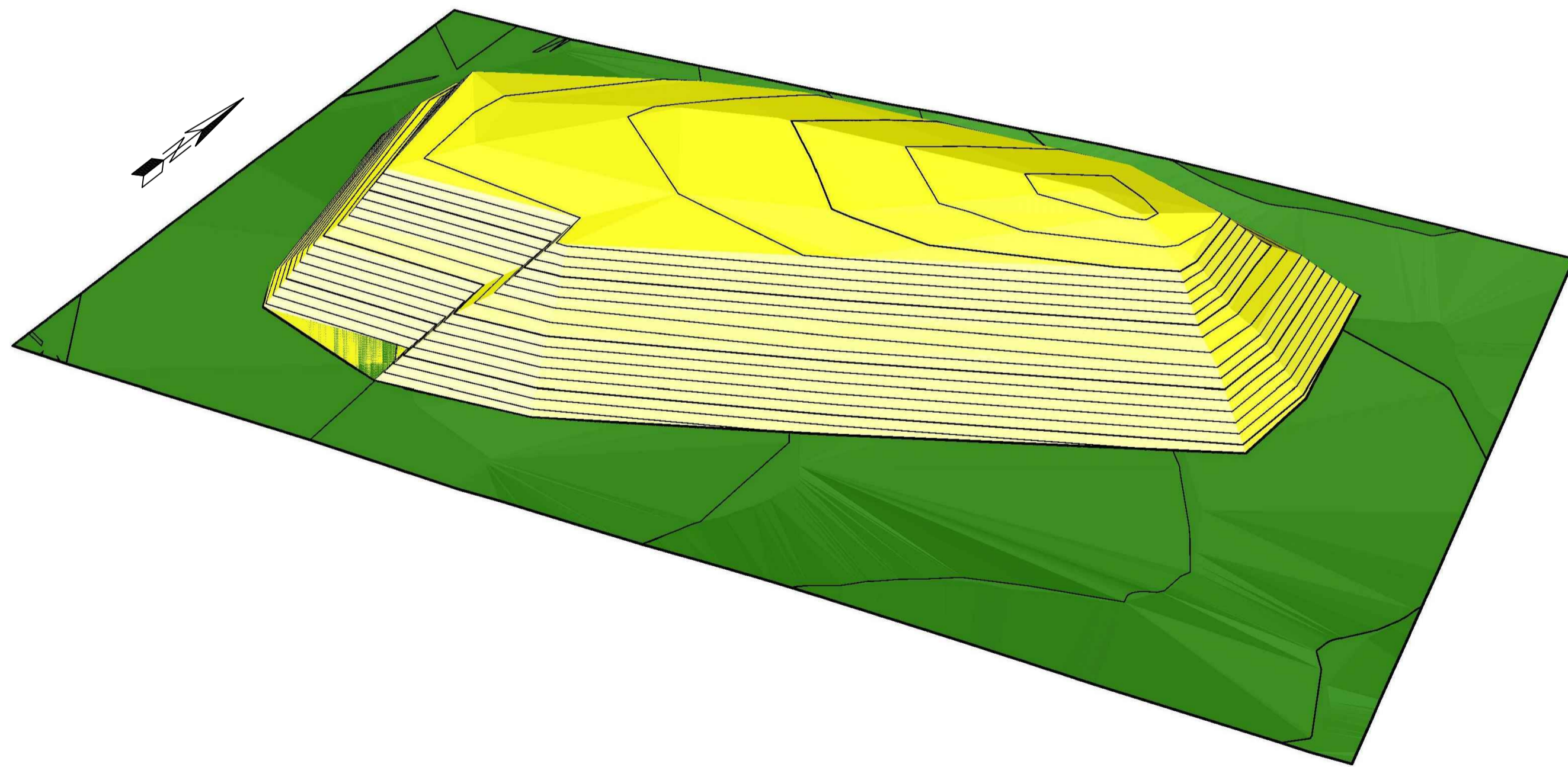


SOUTHEAST PERSPECTIVE VIEW

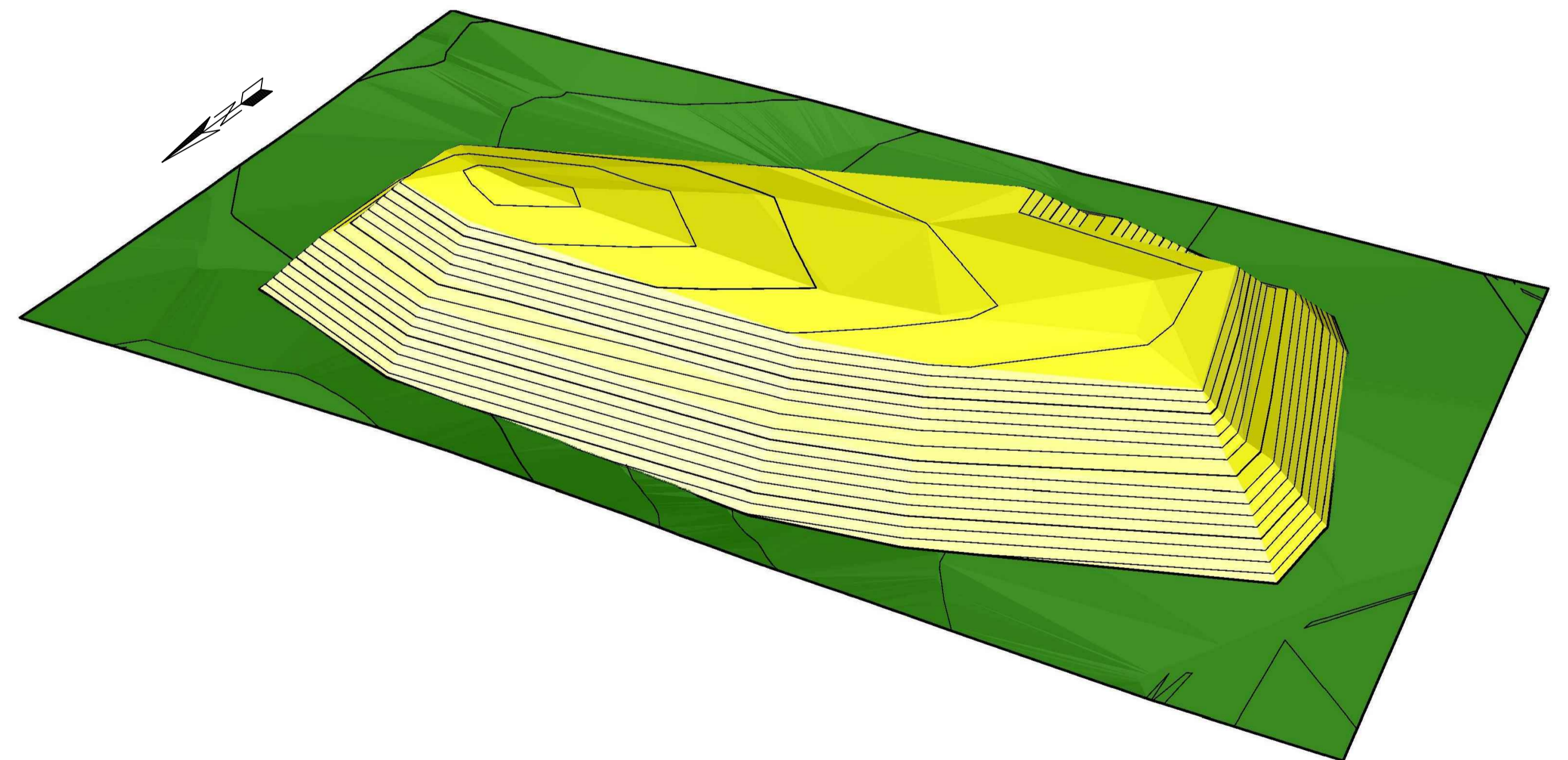


NORTHWEST PERSPECTIVE VIEW

**SITE ALTERNATIVE 1**  
N.T.S



SOUTHEAST PERSPECTIVE VIEW



NORTHWEST PERSPECTIVE VIEW

**SITE ALTERNATIVE 2**  
N.T.S

LEGEND	
	NEW ASH DISPOSAL PILE
	EXISTING NGL AND EXISTING DISPOSAL PILE

**FOR DISCUSSION  
PURPOSES ONLY**

REF. DRAWINGS	DRG. No.'s	DESCRIPTION	DESIGNED	L. WALLACE	CAPE TOWN	Telephone	+27 21 532-0940	 T/G JEFFARES & GREEN (Pty) Ltd 2015-09-22	 MATIMBA ASH DISPOSAL FACILITY	CONTRACT No. : NONE TITLE 3D REPRESENTATIVE MODELS OF LANDFILL SITE ALTERNATIVES	DATE	MARCH 2015	SCALE	AS SHOWN
	3145-C002	FLOOR & LEACHATE - SITE ALTERNATIVE 1	CHECKED	R. EMERY	14 CENTRAL SQUARE	Facsimile	+27 21 532-0950				J & G DRAWING No.	3145-C005-P-RevA		
	3145-C003	SITE LAYOUT - SITE ALTERNATIVE 2	DRAWN	M. JACOBS	PNELANDS	E-MAIL	jgk1@gj.co.za				CLIENT DRAWING No.	NONE		
	3145-C004	FLOOR & LEACHATE - SITE ALTERNATIVE 2	No.	AMENDMENTS	DATE	SIGNED	CHECKED				R. EMERY	CAD FILENAME	H:\Projects\3145 - Matimba Ash Disposal\3D Models\3D Representative Models.dwg	
3145-C005	3D MODELS OF LANDFILL SITE ALTERNATIVES	© COPYRIGHT RESERVED												
3145-C006	TYPICAL LAYERWORKS & CONSTRUCTION DETAILS													

**Drawing No. 3145 – C006**

