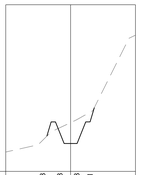
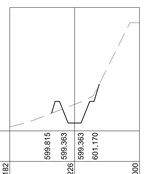
CHAINAGE 30
H.SCALE 1:500
V.SCALE 1:100



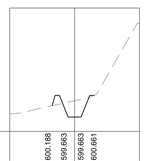
DATUM = 598						
FINISHED			599.628	599.288	600.951	
GROUND				600.253		604.300
OFFSET	-15.000	-5.490	0.000	1.500	5.494	15.000

CHAINAGE 20
H.SCALE 1:500
V.SCALE 1:100



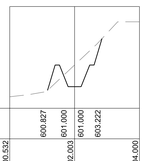
DATUM = 599						
FINISHED			599.815	599.363	601.170	
GROUND	599.182			600.226		604.000
OFFSET	-15.000	-5.321	0.000	1.500	5.711	15.000

CHAINAGE 10
H.SCALE 1:500
V.SCALE 1:100



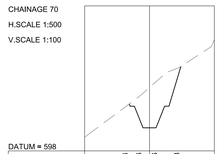
DATUM = 599						
FINISHED			600.188	599.663	600.661	
GROUND	599.808			600.416		604.000
OFFSET	-15.000	-5.212	0.000	1.500	4.504	15.000

CHAINAGE 0
H.SCALE 1:500
V.SCALE 1:100



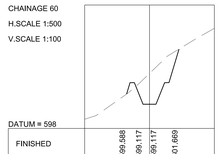
DATUM = 600						
FINISHED			600.827	601.000	601.000	603.222
GROUND	600.532			602.003		604.000
OFFSET	-15.000	-6.259	0.000	1.500	6.334	15.000

CHAINAGE 70
H.SCALE 1:500
V.SCALE 1:100



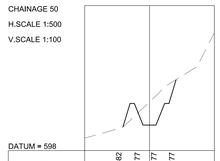
DATUM = 598						
FINISHED			600.174	599.066	599.066	601.908
GROUND	598.633			600.931		603.155
OFFSET	-15.000	-4.662	0.000	1.500	7.263	15.000

CHAINAGE 60
H.SCALE 1:500
V.SCALE 1:100



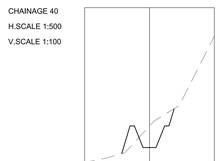
DATUM = 598						
FINISHED			599.588	599.117	599.117	601.669
GROUND	598.423			600.542		602.629
OFFSET	-15.000	-5.294	0.000	1.500	6.828	15.000

CHAINAGE 50
H.SCALE 1:500
V.SCALE 1:100



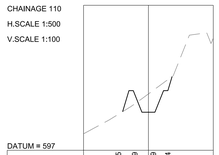
DATUM = 598						
FINISHED			599.082	599.177	599.177	601.277
GROUND	598.570			600.248		603.448
OFFSET	-15.000	-6.143	-1.500	0.000	1.500	6.150

CHAINAGE 40
H.SCALE 1:500
V.SCALE 1:100



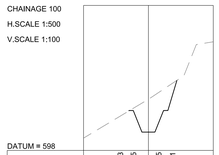
DATUM = 598						
FINISHED			598.950	599.237	599.237	601.036
GROUND	598.547			600.232		604.395
OFFSET	-15.000	-6.430	-1.500	0.000	1.500	5.689

CHAINAGE 110
H.SCALE 1:500
V.SCALE 1:100



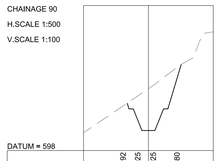
DATUM = 597						
FINISHED			598.785	598.759	598.759	600.414
GROUND	597.761			599.695		602.164
OFFSET	-15.000	-5.960	-1.500	0.000	1.500	5.483

CHAINAGE 100
H.SCALE 1:500
V.SCALE 1:100



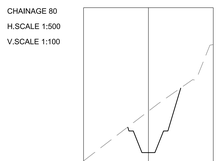
DATUM = 598						
FINISHED			599.823	598.845	598.845	601.241
GROUND	598.568			600.396		603.023
OFFSET	-15.000	-4.634	-1.500	0.000	1.500	6.595

CHAINAGE 90
H.SCALE 1:500
V.SCALE 1:100



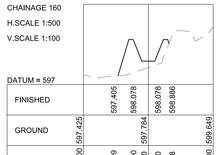
DATUM = 598						
FINISHED			600.192	598.925	598.925	601.980
GROUND	598.622			600.857		603.491
OFFSET	-15.000	-4.900	-1.500	0.000	1.500	7.582

CHAINAGE 80
H.SCALE 1:500
V.SCALE 1:100



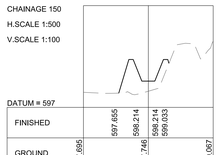
DATUM = 598						
FINISHED			600.186	599.003	599.003	601.995
GROUND	598.617			600.918		604.000
OFFSET	-15.000	-4.775	-1.500	0.000	1.500	7.469

CHAINAGE 160
H.SCALE 1:500
V.SCALE 1:100



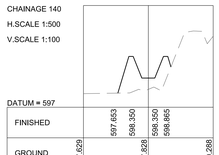
DATUM = 597						
FINISHED			597.405	598.078	598.078	598.886
GROUND	597.425			597.784		599.649
OFFSET	-15.000	-7.009	-1.500	0.000	1.500	4.788

CHAINAGE 150
H.SCALE 1:500
V.SCALE 1:100



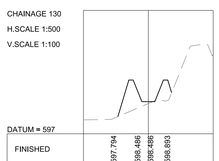
DATUM = 597						
FINISHED			597.655	598.214	598.214	599.033
GROUND	597.695			597.746		600.067
OFFSET	-15.000	-6.839	-1.500	0.000	1.500	4.771

CHAINAGE 140
H.SCALE 1:500
V.SCALE 1:100



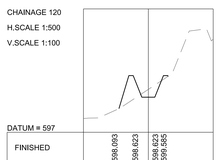
DATUM = 597						
FINISHED			597.653	598.350	598.350	598.865
GROUND	597.629			597.828		600.288
OFFSET	-15.000	-7.046	-1.500	0.000	1.500	5.228

CHAINAGE 130
H.SCALE 1:500
V.SCALE 1:100



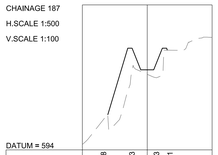
DATUM = 597						
FINISHED			597.794	598.486	598.486	598.893
GROUND	597.642			598.398		600.650
OFFSET	-15.000	-7.038	-1.500	0.000	1.500	5.390

CHAINAGE 120
H.SCALE 1:500
V.SCALE 1:100



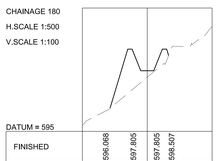
DATUM = 597						
FINISHED			598.093	598.623	598.623	598.985
GROUND	597.637			598.983		601.313
OFFSET	-15.000	-6.794	-1.500	0.000	1.500	4.556

CHAINAGE 187
H.SCALE 1:500
V.SCALE 1:100



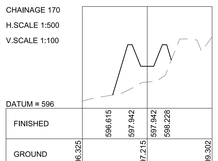
DATUM = 594						
FINISHED			595.618	597.703	597.703	598.611
GROUND	594.250			597.495		599.204
OFFSET	-15.000	-8.128	-1.500	0.000	1.500	4.639

CHAINAGE 180
H.SCALE 1:500
V.SCALE 1:100



DATUM = 595						
FINISHED			596.068	597.805	597.805	598.507
GROUND	595.263			597.507		599.847
OFFSET	-15.000	-8.806	-1.500	0.000	1.500	4.948

CHAINAGE 170
H.SCALE 1:500
V.SCALE 1:100



DATUM = 596						
FINISHED			596.615	597.842	597.842	598.228
GROUND	596.325			597.215		599.392
OFFSET	-15.000	-7.990	-1.500	0.000	1.500	5.570

CROSS SECTION : OUTAKE CANAL

SCALE : AS SHOWN

REFERENCE DRAWINGS

DRAWING No.	TITLE/DESCRIPTION	SOURCE

NOTES :

2. GENERAL

2.1 NO SCALING OF DIMENSIONS IS PERMITTED.

REFERENCE DRAWINGS

1. FOR CANAL DETAILS SEE DRAWING H121642-013-10-035-0006-001

REV	DATE	DESCRIPTION	NAME	SIGNATURE APPROVED
A	16/05/16	CLIENT REVIEW		

CONSULTING ENGINEER APPROVAL

CONSULTING ENGINEER DRAWING No.			H121642-013-10-035-0005-002
DESIGNED	B,BVUMA	DRAWN	E, CARVALHO
CHECKED	E, CARVALHO	CIVIL ENGINEER	E, CARVALHO
STRUCTURAL ENGINEER	NR	MECHANICAL ENGINEER	NR
ELECTRICAL ENGINEER	NR	S & PC ENGINEER	NR

APPROVED J,PRINSLOO (PR NO, 960121) PROJECT ENGINEER SIGNATURE

HATCH GOBA
Member of the Hatch Group

UMGENI WATER APPROVAL

ENGINEERING SERVICES

	NAME	SIGNATURE	DATE
DESIGN ENGINEER			
ENGINEERING MANAGER	ALAN KOCKOTT		

OPERATIONS

	NAME	SIGNATURE	DATE
MAINTENANCE MANAGER	NTSIKI BAAI		
AREA MANAGER	ERIC NENE		
ASSET MANAGER	NTSIKI BAAI		
GENERAL MANAGER	EDNICK MSWELI		

UMGENI WATER · AMANZI
Managing Water for Life
310 BURGER STREET
PIETERMARITZBURG
3201
TEL. (033) 341 1111

DARVILL SPW EXTENSIONS

WETLAND CREATION
PROPOSED WETLAND AREA
CHANNEL CROSS SECTIONS

FILE No.	SCALE	SHEET SIZE	SHEET
	AS SHOWN	A0	2 OF 2
CONTRACT No. 2013/136	DRAWING No.		REVISION A