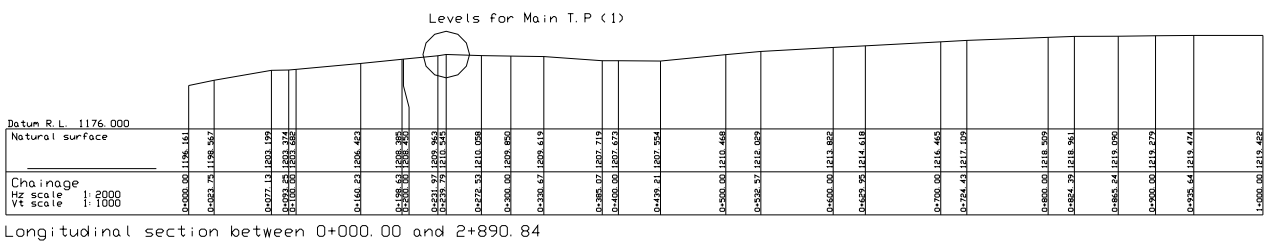
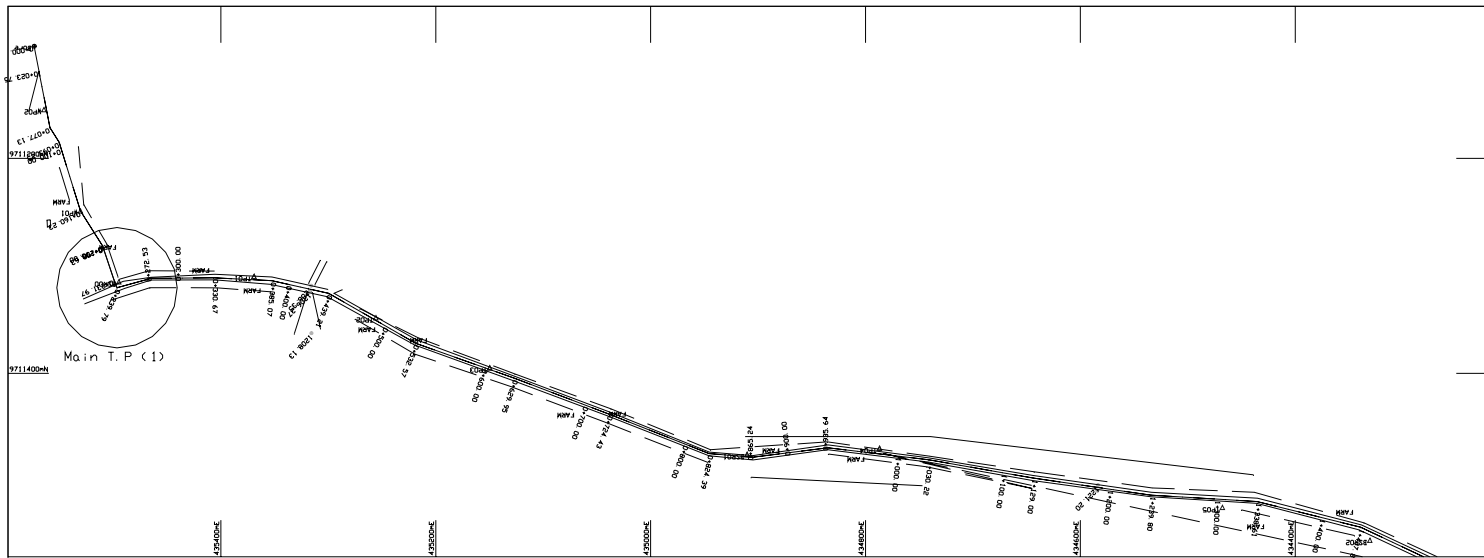


6 Survey Works

① Survey Drawings



Client:
 KOKUSAI KOGYO CO. LTD
 2 Nishishinjuku, Chiyoda-ku
 Tokyo, Japan
 Contractor:
 GEO-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 995
 Dar es Salaam, United Republic of Tanzania

Notes:

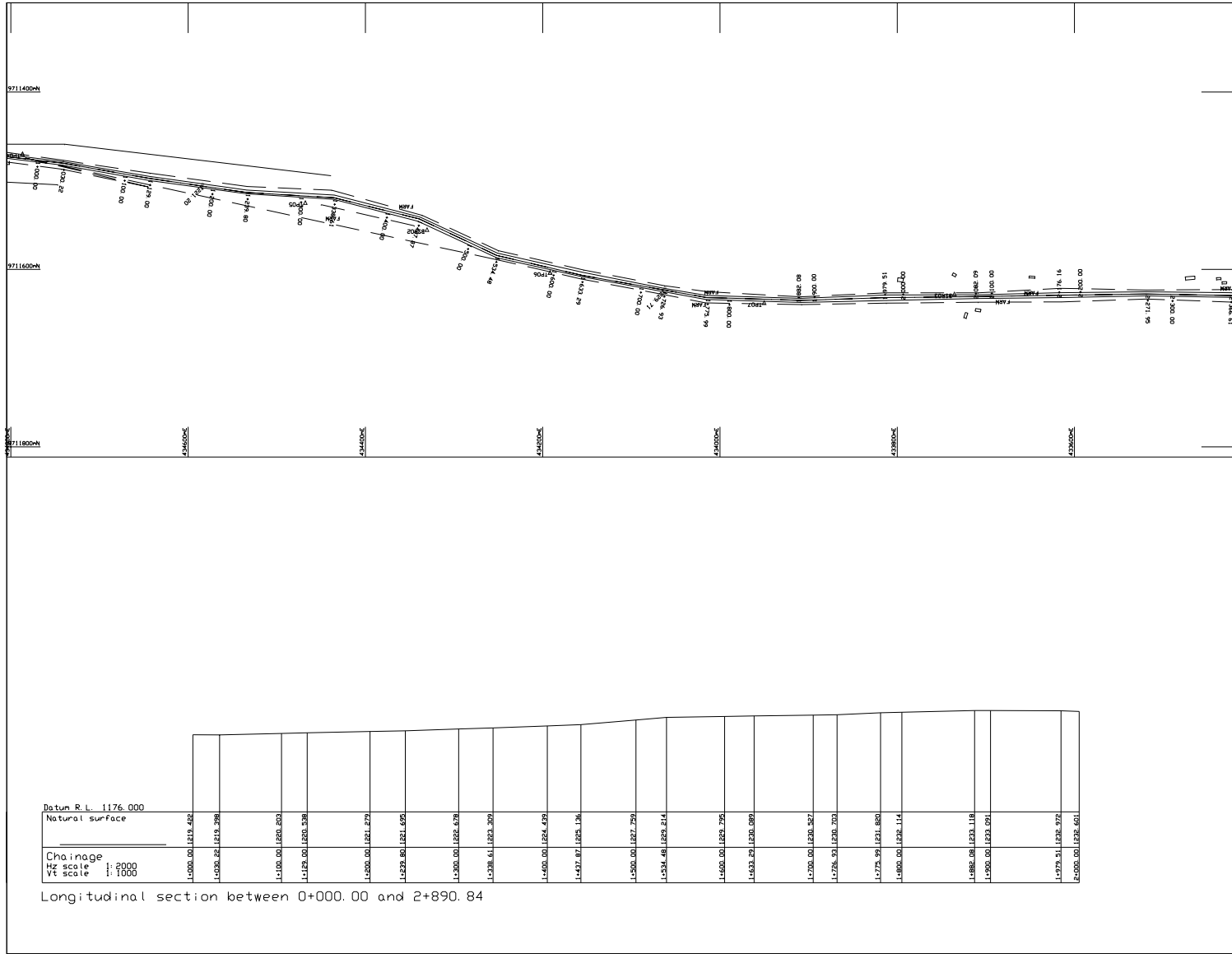
No.	Amendment	By	Date

Design	
Drawn	
Checked	
Approved	
Date	13 APR 2006

Job Title:
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN MWANZA AND MARA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title:
 PLAN AND LONGITUDINAL PROFILE
 FOR
 BUSWERU PIPED SCHEME

Scale	HZ 1:2000 VT 1:1000	Revision	
Job ID	BSU	Drawing No.	01



Client: KOKUSAI KOGYO CO. LTD
 2 Rokusen, cho, Chiyoda-ku
 Tokyo, Japan
 Contractor: GEO-HYDRO CONSULTANTS LTD
 P. O. Box 28478 Tel: +255 744 494 200
 Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		13 APR 2006

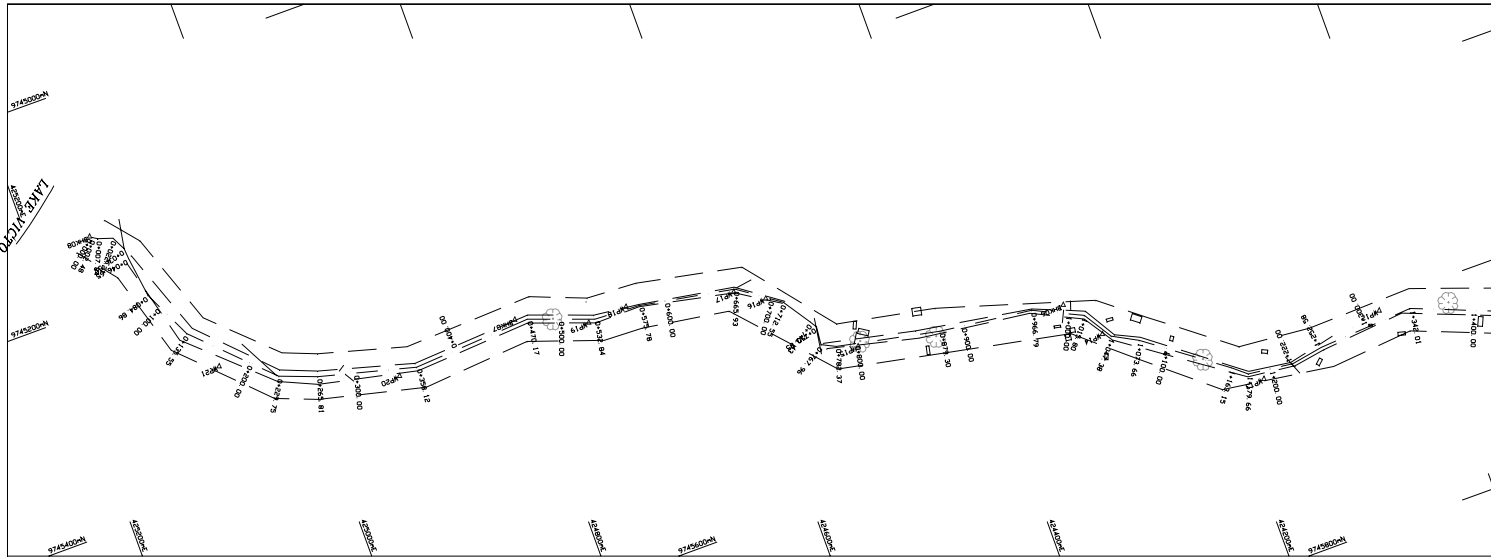
Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR BUSWERU PIPED SCHEME

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID: BSU Drawing No. 02

Survey Drawings Buswelu 2



Chainage	Natural surface	Proposed profile
0+000.00	1118.360	1118.360
0+005.00	1118.340	1118.340
0+010.00	1118.320	1118.320
0+015.00	1118.300	1118.300
0+020.00	1118.280	1118.280
0+025.00	1118.260	1118.260
0+030.00	1118.240	1118.240
0+035.00	1118.220	1118.220
0+040.00	1118.200	1118.200
0+045.00	1118.180	1118.180
0+050.00	1118.160	1118.160
0+055.00	1118.140	1118.140
0+060.00	1118.120	1118.120
0+065.00	1118.100	1118.100
0+070.00	1118.080	1118.080
0+075.00	1118.060	1118.060
0+080.00	1118.040	1118.040
0+085.00	1118.020	1118.020
0+090.00	1118.000	1118.000
0+095.00	1117.980	1117.980
0+100.00	1117.960	1117.960

Longitudinal section between 0+000.00 and 1+000.00

1

Client: KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Consultant: GEO-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 498 555
 Dar es Salaam, United Republic of Tanzania.

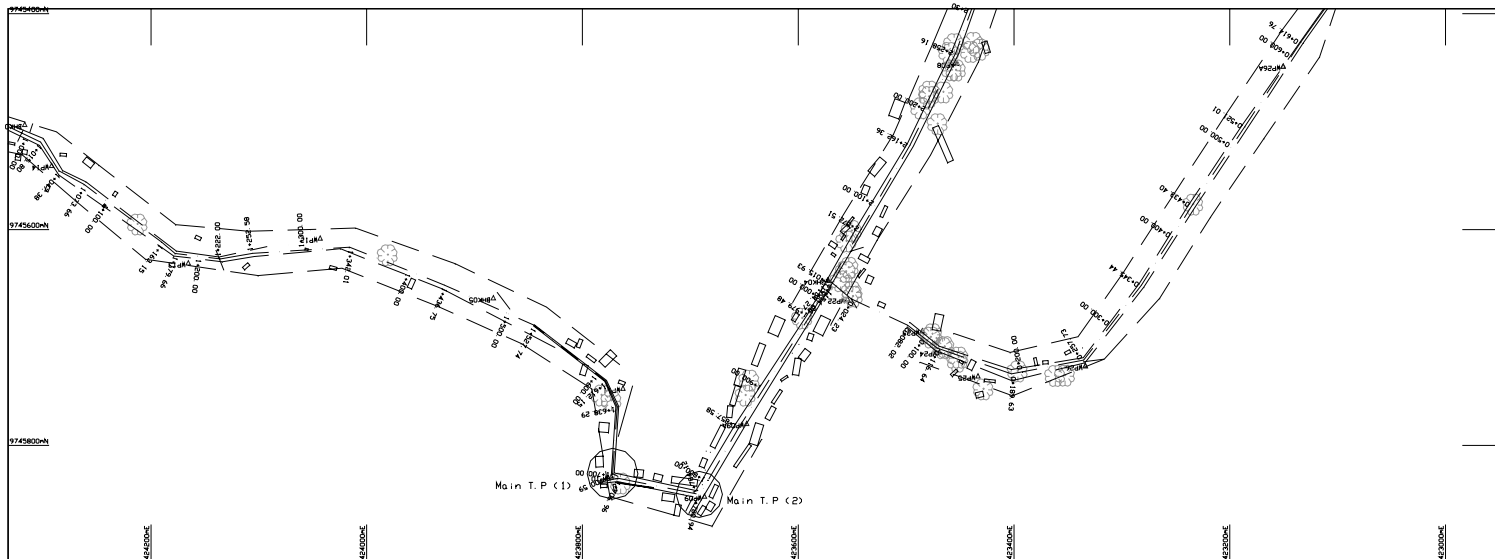
Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		16 APR 2006

Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWAGA AND MWAHA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR BULYAHEKE PIPED SCHEME

Scale	Revision
HZ 1:2000	
VT 1:1000	
Job ID: DWG1	Drawing No: 01



Chainage	1+000.00	1+010.00	1+020.00	1+030.00	1+040.00	1+050.00	1+060.00	1+070.00	1+080.00	1+090.00	1+100.00	1+110.00	1+120.00	1+130.00	1+140.00	1+150.00	1+160.00	1+170.00	1+180.00	1+190.00	1+200.00				
Natural surface	1149.866	1149.893	1149.962	1149.798	1149.864	1150.148	1150.260	1150.381	1150.391	1150.664	1150.619	1151.308	1151.296	1153.095	1153.510	1155.081	1155.388	1155.670	1156.776	1156.565	1156.664	1157.029	1156.503	1155.963	1155.899
Proposed Profile	1149.866	1149.893	1149.962	1149.798	1149.864	1150.148	1150.260	1150.381	1150.391	1150.664	1150.619	1151.308	1151.296	1153.095	1153.510	1155.081	1155.388	1155.670	1156.776	1156.565	1156.664	1157.029	1156.503	1155.963	1155.899

Longitudinal section between 1+000.00 and 2+000.00
1

Client: **KOKUSAI KOGYO CO. LTD**
2 Rokuban, Cha, Chiyoda-ku
Tokyo, Japan.
Contractor: **GEO-HYDRO CONSULTANTS LTD**
P.O. Box 104678 Tel: +255 748 470 555
Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		16 APR 2006

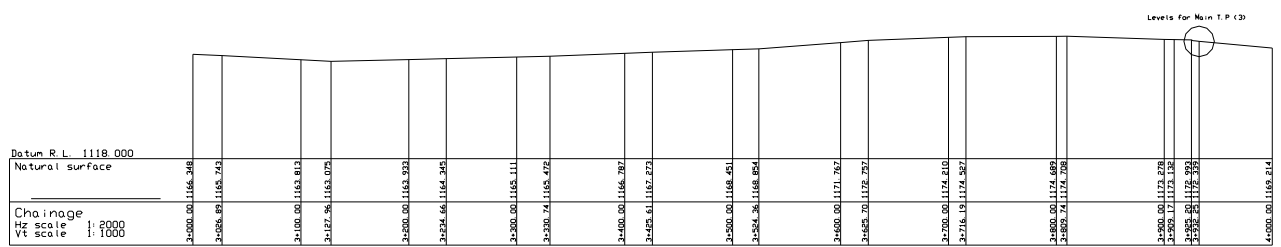
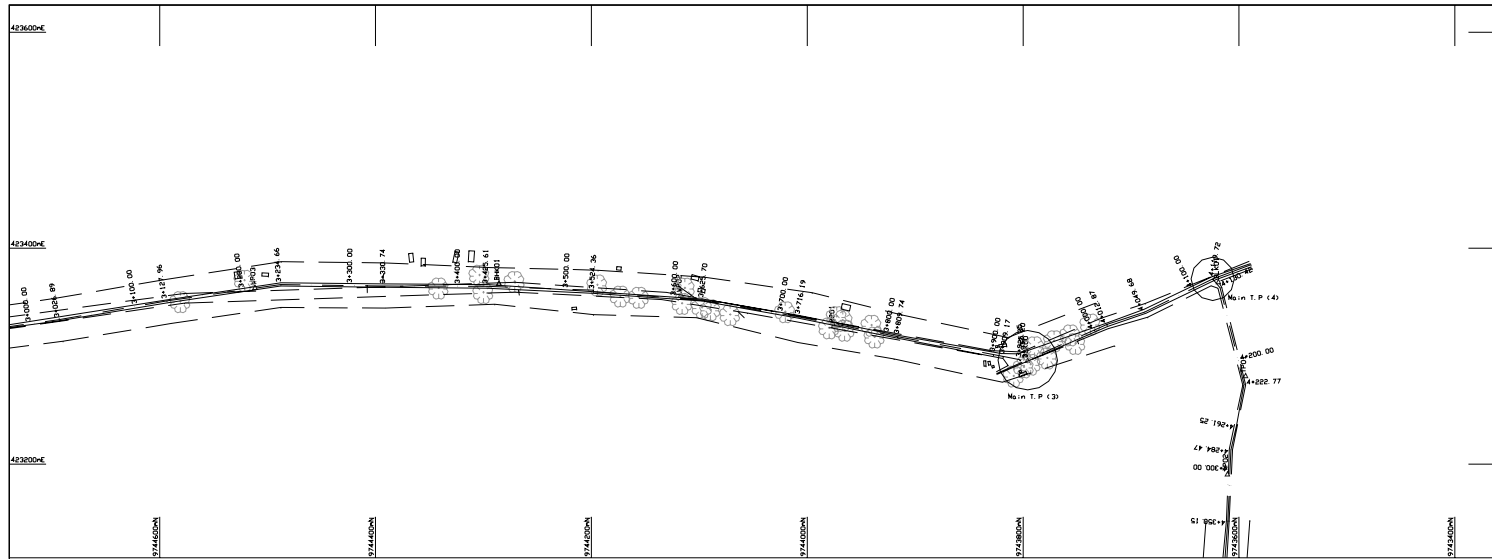
Job Title: **TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA**

Drawing Title: **PLAN AND LONGITUDINAL PROFILE FOR BULYAHEKE PIPED SCHEME**

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID: DWG1 Drawing No: 02

Survey Drawings Bulyaheke 2



Datum R.L. 1118.000
 Natural surface

Longitudinal section between 3+000.00 and 4+000.00
 1

Client: KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GEO-HYDRO CONSULTANTS LTD
 P. O. Box 104278 Tel: +255 748 490 555
 Dar es Salaam, United Republic of Tanzania

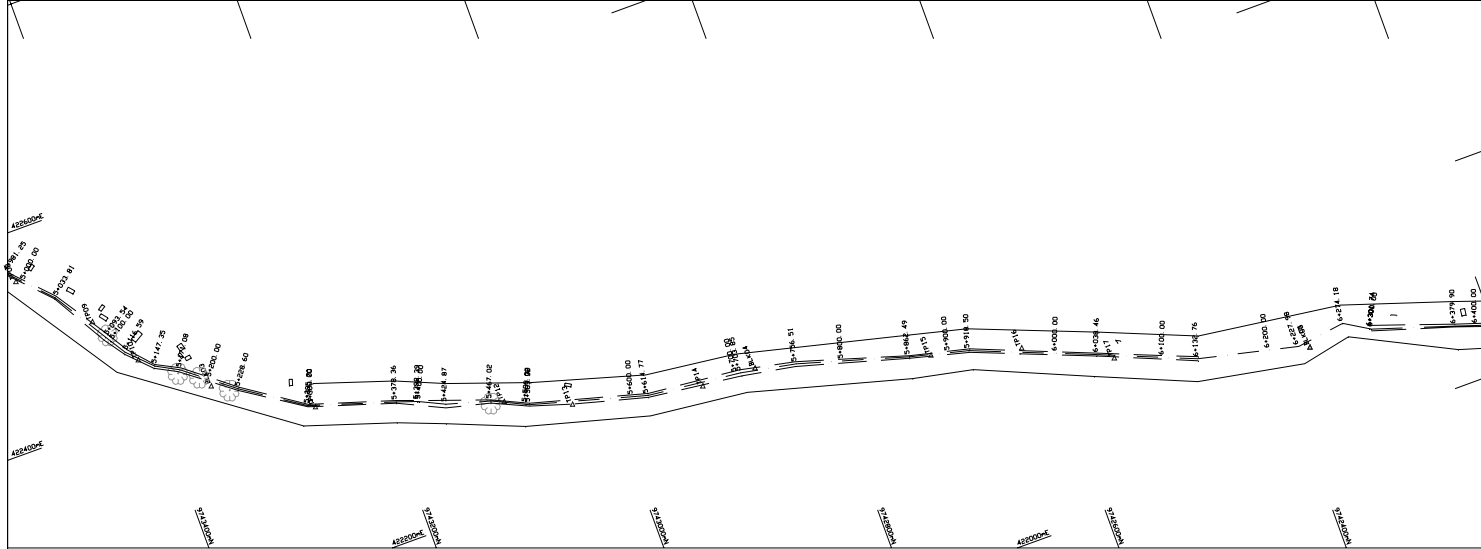
Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
Date: 16 APR 2006			

Job Title:
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN MWANZA AND MARA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title:
 PLAN AND LONGITUDINAL PROFILE
 FOR
 BULYAHEKE PIPED SCHEME

Scale	Revision
HZ 1:2000	
VT 1:1000	
Job ID: DWG1	Drawing No: 04



Station	Elevation
5+000.00	1171.021
5+025.81	1171.242
5+051.62	1172.463
5+077.43	1172.392
5+103.24	1171.976
5+129.05	1171.265
5+154.86	1170.293
5+180.67	1169.008
5+206.48	1168.418
5+232.29	1164.225
5+258.10	1163.901
5+283.91	1164.303
5+309.72	1165.133
5+335.53	1165.283
5+361.34	1165.564
5+387.15	1165.971
5+412.96	1165.283
5+438.77	1165.283
5+464.58	1165.283
5+490.39	1165.283
5+516.20	1165.283
5+542.01	1165.283
5+567.82	1165.283
5+593.63	1165.283
5+619.44	1165.283
5+645.25	1164.311
5+671.06	1163.790
5+696.87	1163.333
5+722.68	1162.844

Longitudinal section between 5+000.00 and 6+000.00
1

Client: **KOKUSAI KOGYO CO. LTD**
2 Rokusoga, cho, Chiyoda-ku
Tokyo, JAPAN
Contractor: **GEO-HYDRO CONSULTANTS LTD**
P. O. Box 004678 Tel: +255 748 496 935
Dar es Salaam, United Republic of Tanzania

Notes:

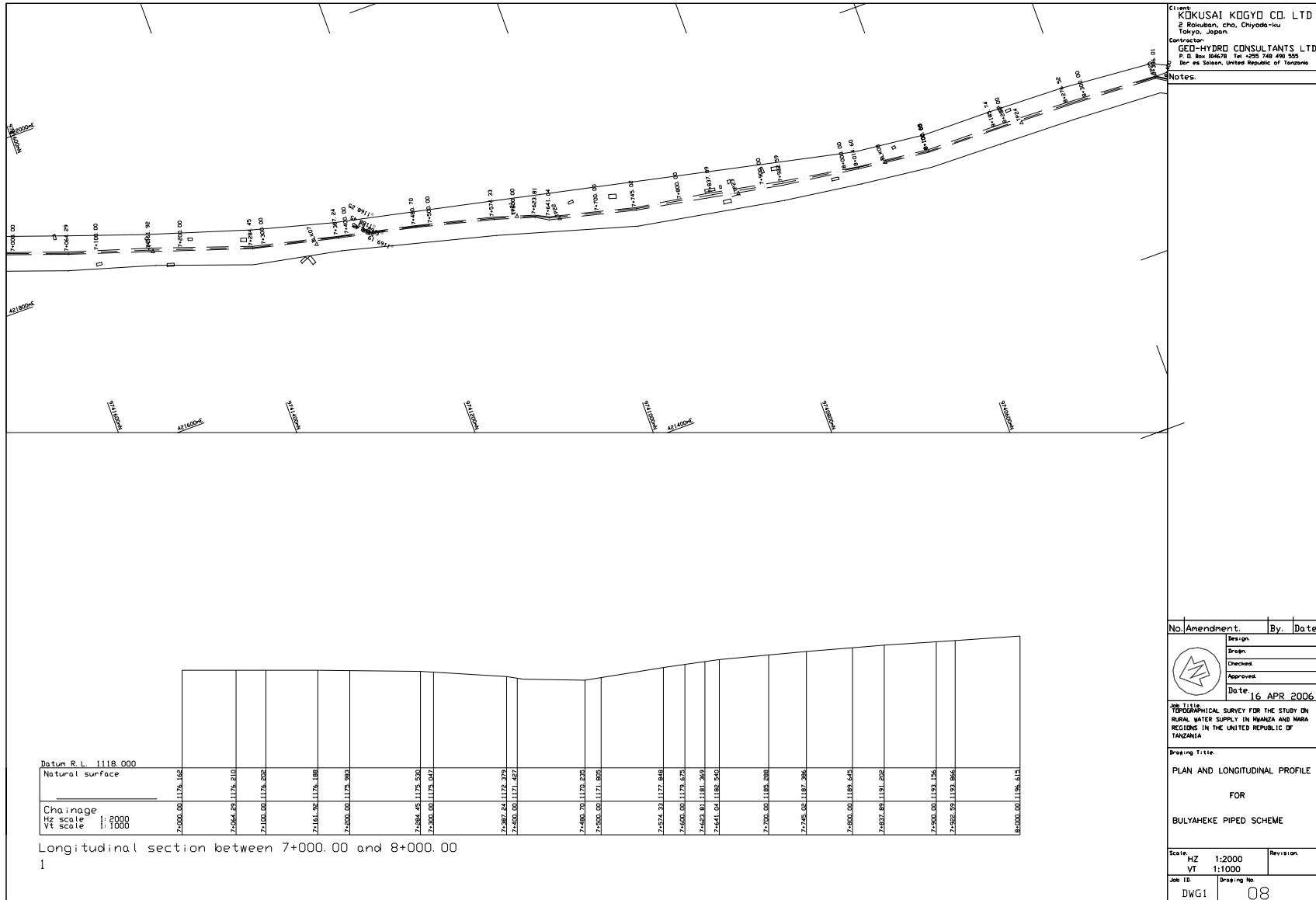
No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date:		16 APR 2006

Job Title: **TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWAHA AND MWAHA REGIONS IN THE UNITED REPUBLIC OF TANZANIA**

Drawing Title: **PLAN AND LONGITUDINAL PROFILE FOR BULYAHEKE PIPED SCHEME**

Scale	Revision
HZ 1:2000	
VT 1:1000	
Job ID: DWG1	Drawing No: 06

Survey Drawings Bulyaheke 6



Client:
KOKUSAI KOGYO CO. LTD
 2-10-10, Roppongi, Chiyoda-ku
 Tokyo, Japan

Contractor:
GED-HYDRO CONSULTANTS LTD
 P. O. Box 98478, Tel: +255 748 496 325
 Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date:		16 APR 2006

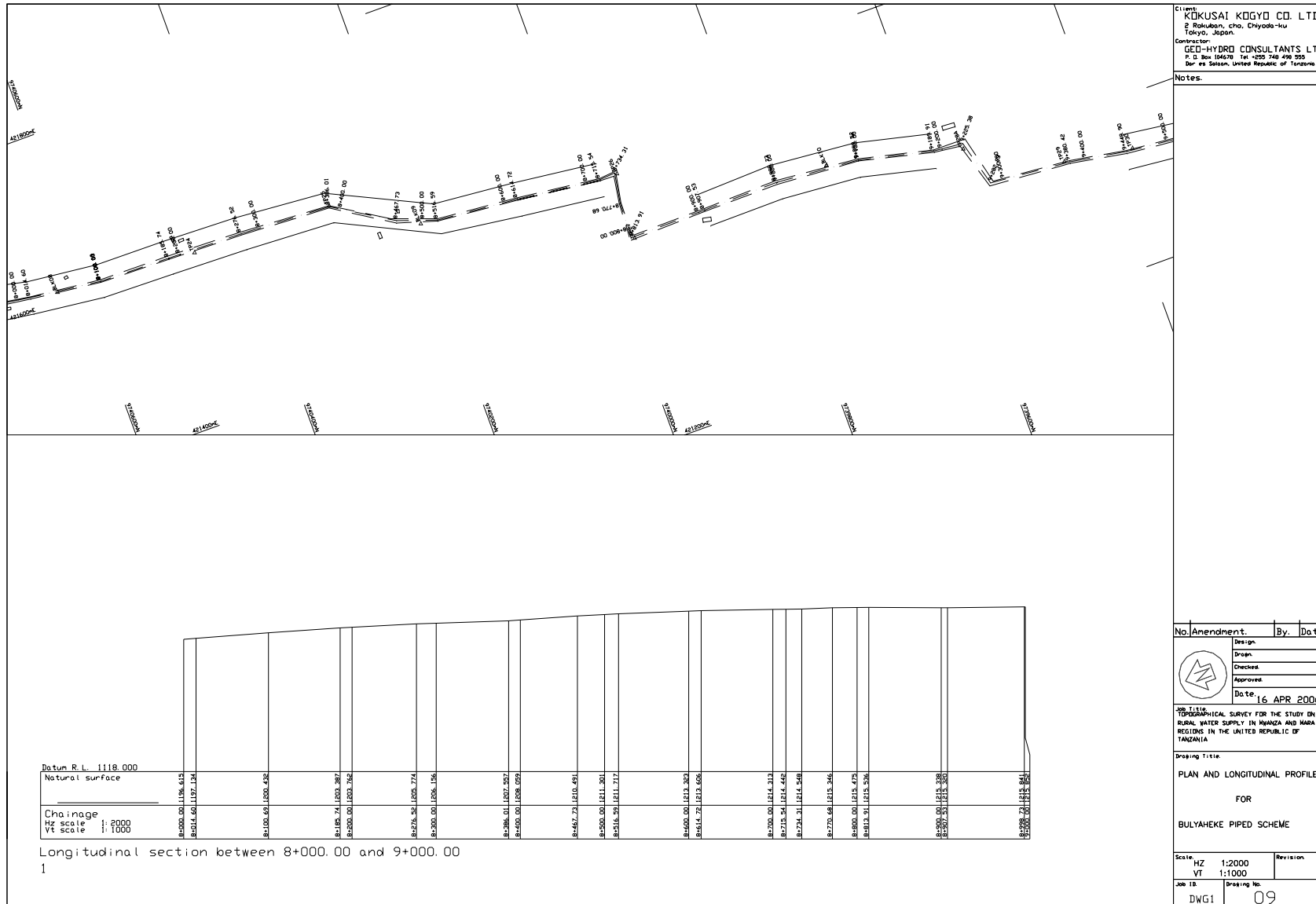
JOB TITLE:
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN MWANZA AND MARA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title:
 PLAN AND LONGITUDINAL PROFILE
 FOR
 BULYAHEKE PIPED SCHEME

Scale:	HZ 1:2000	Revision:
	VT 1:1000	

JOB ID:	DWG1	Drawing No.	08
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Survey Drawings Bulyaheke 8



Client: KOKUSAI KOGYO CO. LTD
2 Rokuban, cho, Chiyoda-ku
Tokyo, Japan
Contractor: GEO-HYDRO CONSULTANTS LTD
P. O. Box 184278 Tel: +255 746 490 200
Dar es Salaam, United Republic of Tanzania

Notes:

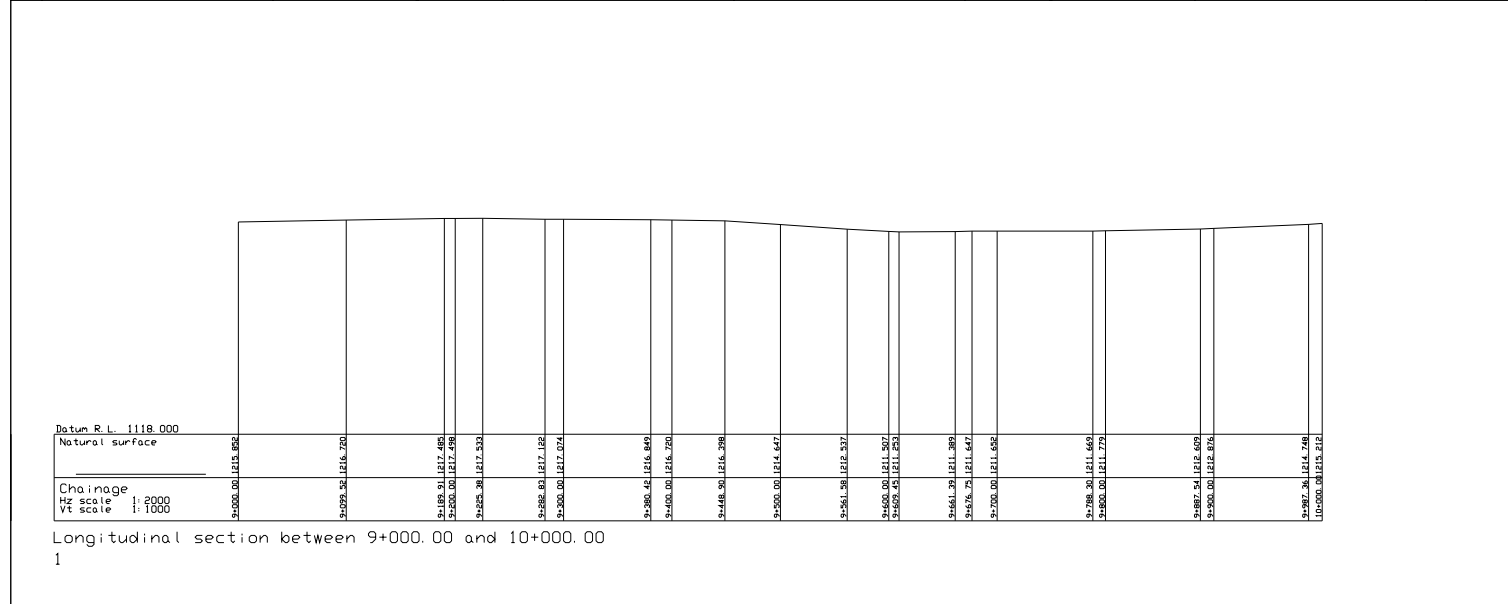
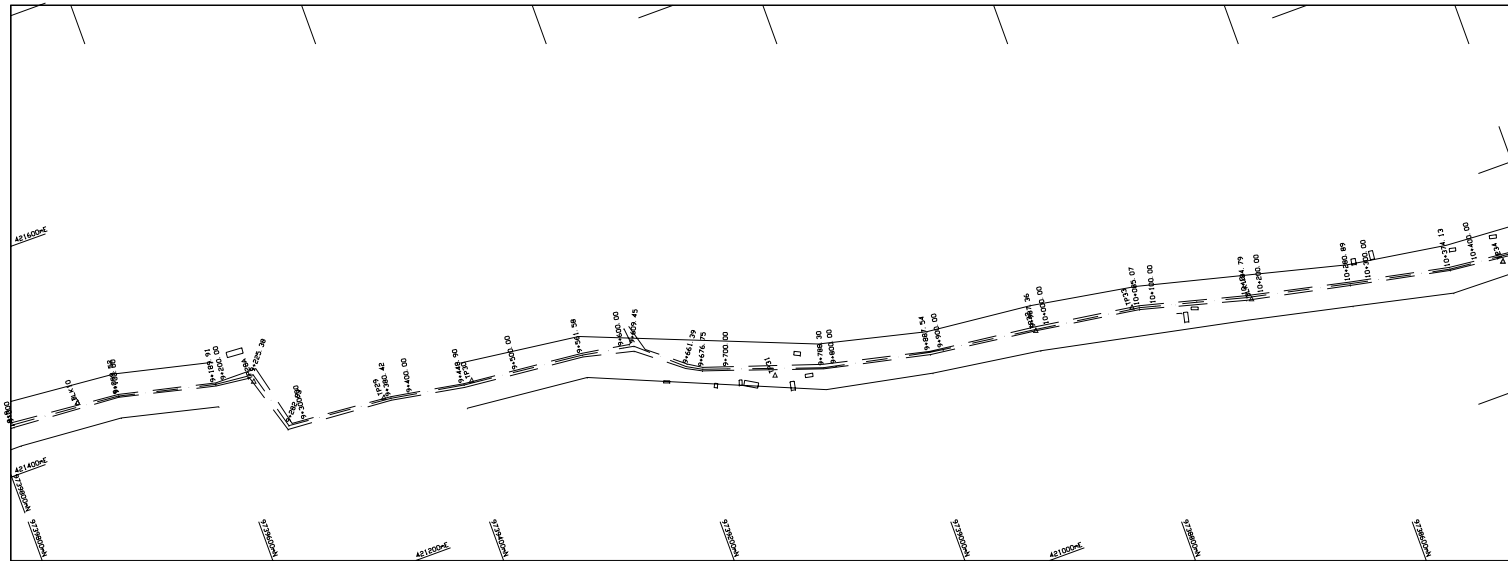
No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date	16 APR 2006	

Job Title:
TOPOGRAPHICAL SURVEY FOR THE STUDY ON
RURAL WATER SUPPLY IN NYANZA AND MABA
REGIONS IN THE UNITED REPUBLIC OF
TANZANIA

Drawing Title:
PLAN AND LONGITUDINAL PROFILE
FOR
BULYAHEKE PIPED SCHEME

Scale	HZ 1:2000 VT 1:1000	Revision	
Job No	DWG1	Drawing No	09

Survey Drawings Bulyaheke 9



Datum R.L. 1118.000

Natural surface

Chainage
 HZ scale 1:2000
 VT scale 1:1000

Longitudinal section between 9+000.00 and 10+000.00

1

Client: KIKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GEO-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 505
 Box 49 Salim, United Republic of Tanzania

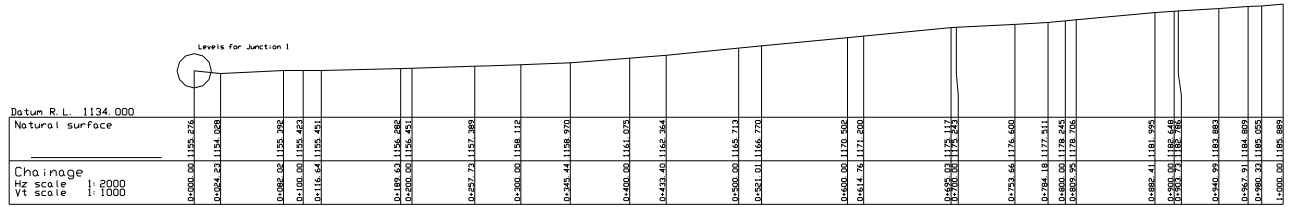
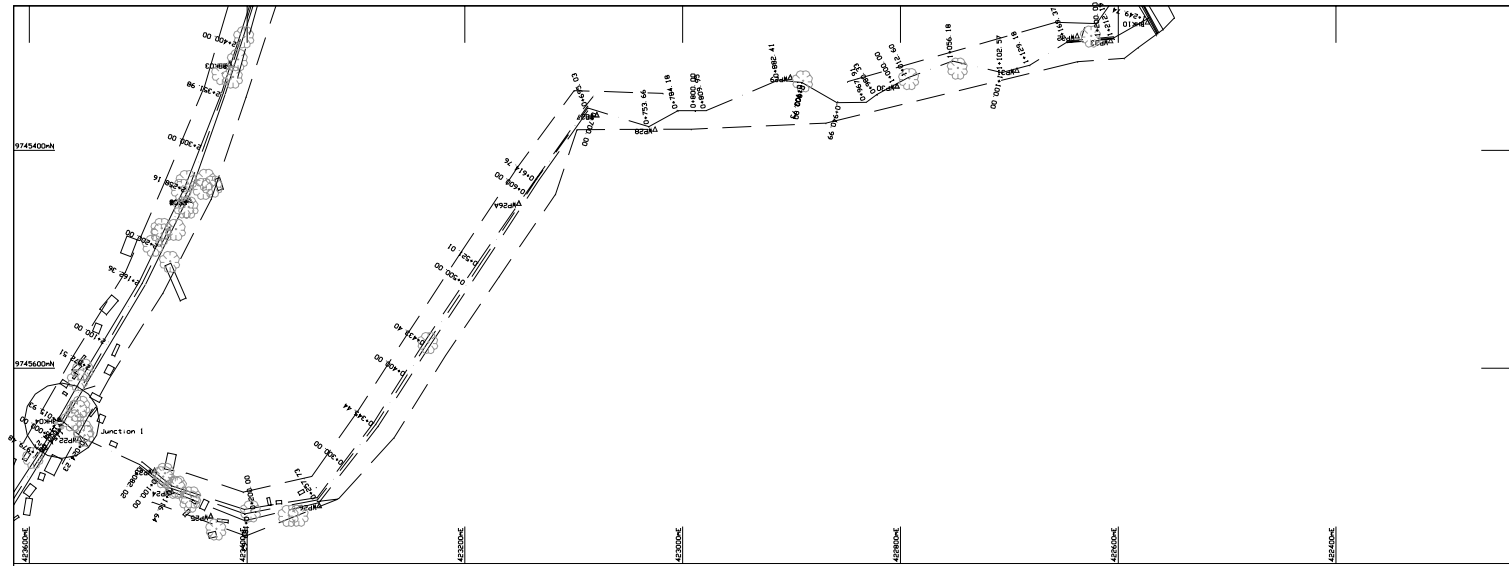
Notes:

No.	Amendment	By	Date
	Design		
	Checked		
	Approved		
	Date		16 APR 2006

JOB TITLE
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN MWANZA AND MARA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title:
 PLAN AND LONGITUDINAL PROFILE
 FOR
 BULYAHEKE PIPED SCHEME

Scale	Revision
HZ 1:2000	
VT 1:1000	
Job ID: DWG1	Drawing No: 10



Longitudinal section between 0+000.00 and 1+000.00

Client:
KOKUSAI KOGYO CO. LTD
 2 Rokusen, cho, Chiyoda-ku
 Tokyo, Japan.

Contractor:
GEO-HYDRO CONSULTANTS LTD
 P. O. Box 104670 Tel: +255 748 490 355
 Dar es Salaam, United Republic of Tanzania

Notes:

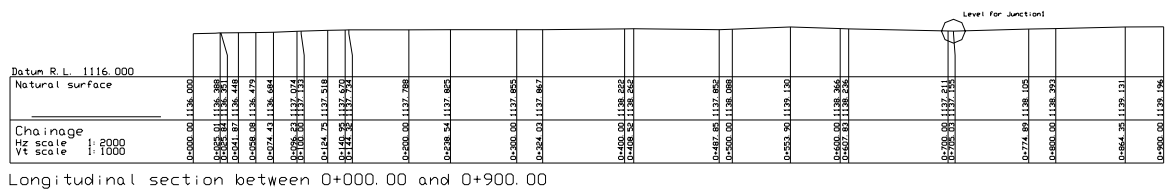
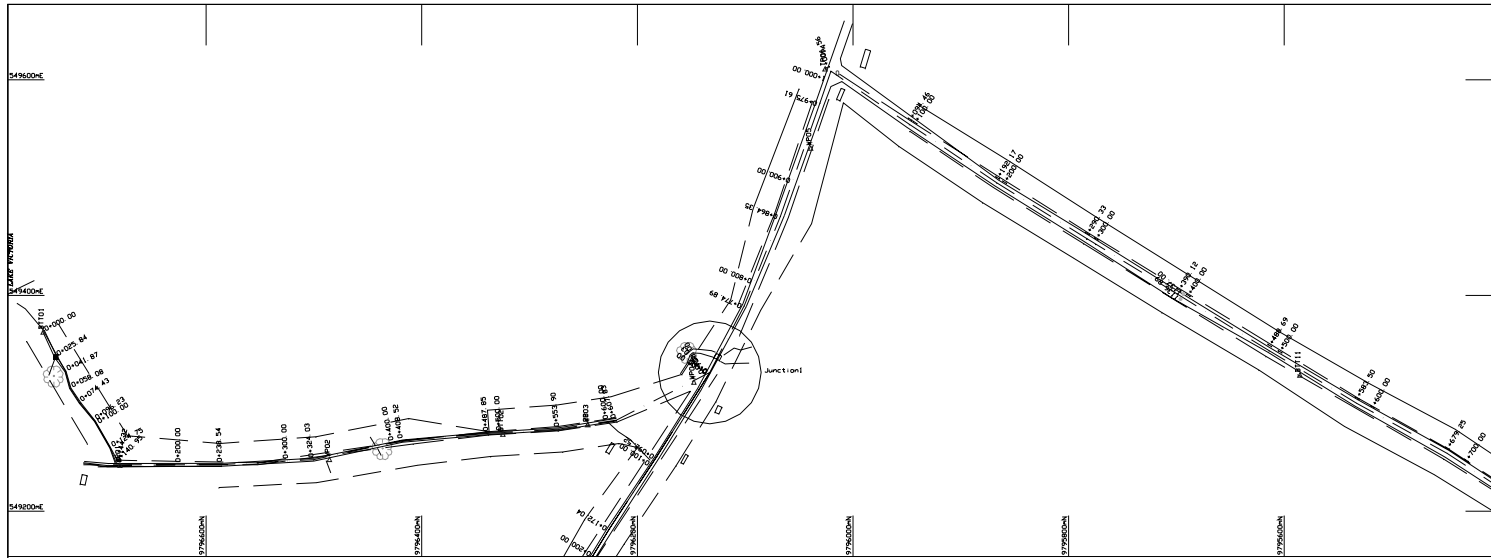
No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date:	16 APR 2006	

Job Title:
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN MWANZA AND MARA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title:
 PLAN AND LONGITUDINAL PROFILE
 FOR
 BULYAHEKE PIPED SCHEME

Scale:	HZ 1:2000	Revision:	
	VT 1:1000		

Job ID: DWG2 Drawing No: 01



Longitudinal section between 0+000.00 and 0+900.00

Client: KOKUSAI KOGYO CO. LTD
 2 Eokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GEO-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 522
 Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		15 APR 2006

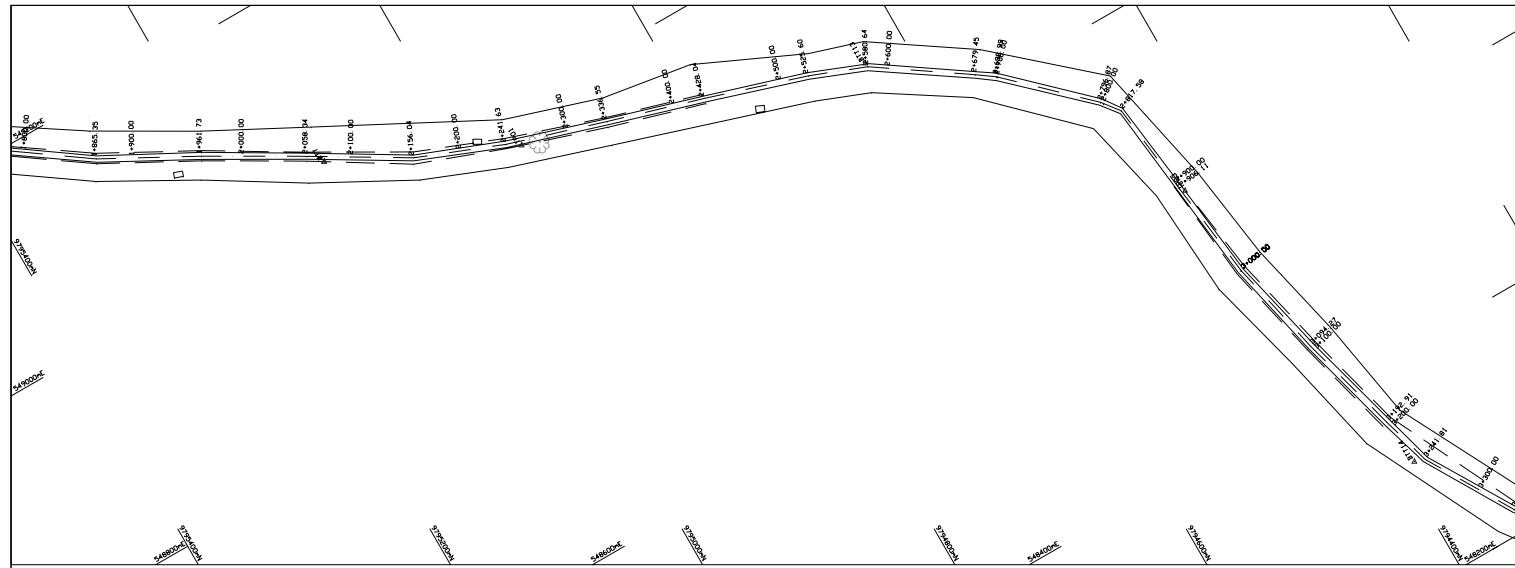
Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN ANAZA AND MASA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR BUTATA FINAL

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID: DWG1 Drawing No: 1

Survey Drawings Butata 1



Station	Elevation
1+800.00	1145.629
1+850.00	1141.401
1+900.00	1141.229
1+950.00	1146.314
2+000.00	1147.053
2+050.00	1144.181
2+100.00	1145.218
2+150.00	1146.614
2+200.00	1147.263
2+241.63	1148.461
2+300.00	1148.909
2+350.00	1149.189
2+400.00	1149.885
2+450.00	1149.387
2+500.00	1150.001
2+550.00	1150.240
2+600.00	1150.682
2+650.00	1150.861
2+679.45	1151.511
2+688.99	1151.747
2+700.00	1151.773

Longitudinal section between 1+800.00 and 2+700.00

Client: KOKUSAI KOGYO CO. LTD
 2 Rokuban, Cho, Chiyoda-Ku
 Tokyo, Japan.

Contractor: CED-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 355
 Dar es Salaam, United Republic of Tanzania.

Notes:

No.	Amendment	By	Date

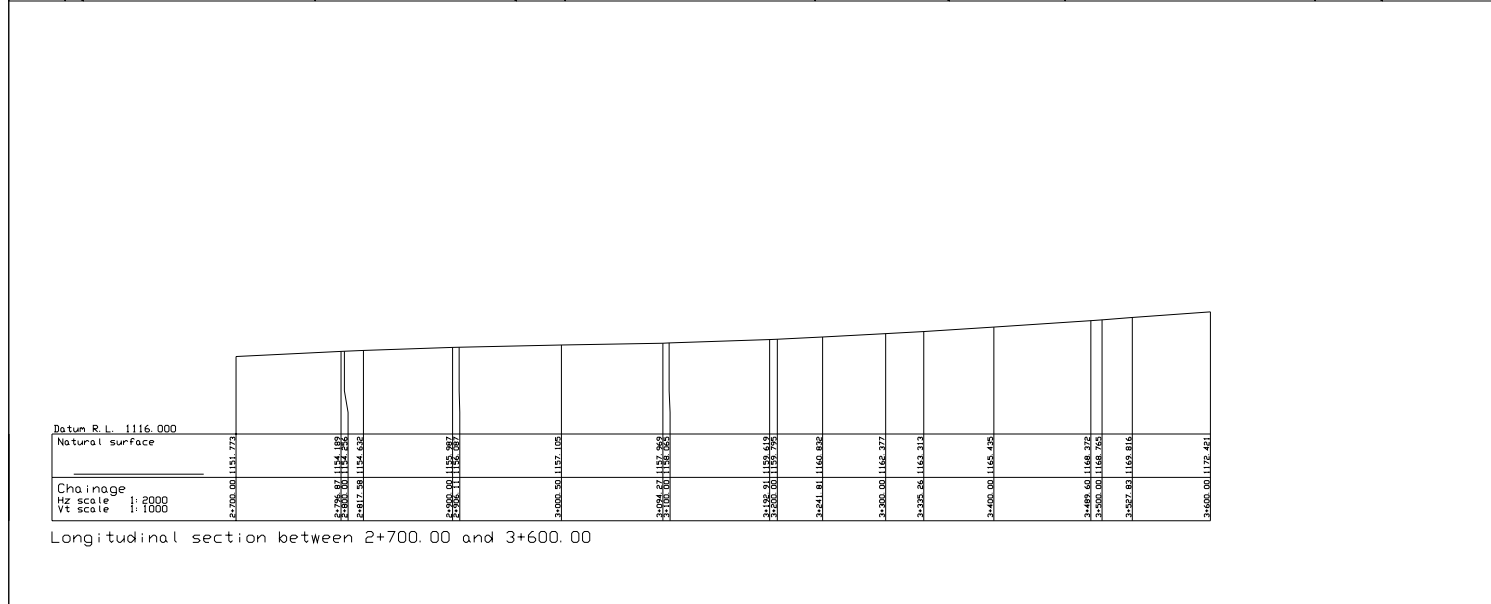
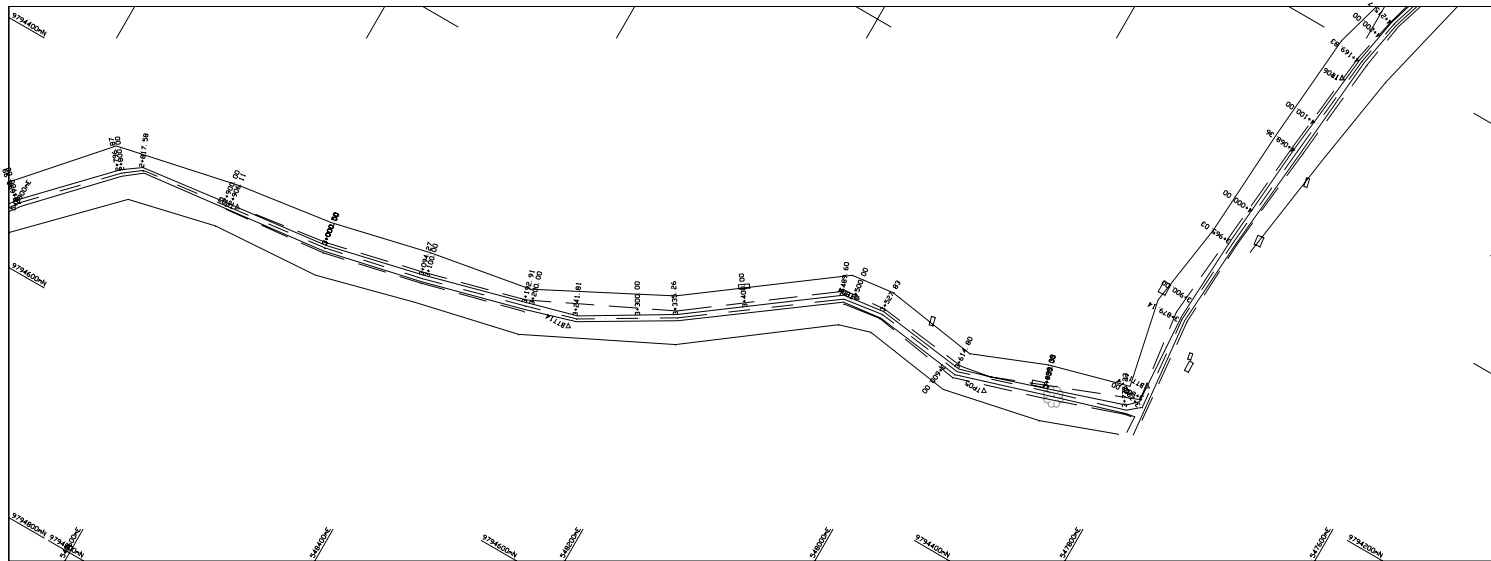
Design: _____
 Drawn: _____
 Checked: _____
 Approved: _____
 Date: 15 APR 2006

Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN WAKA AND MWA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title:
 PLAN AND LONGITUDINAL PROFILE
 FOR
 BUTATA FINAL

Scale: HZ 1:2000
 VT 1:1000

Revision:
 Job ID: DWG1
 Drawing No: 03



Client: KIKUSAI KOGYO CO. LTD
 2 Rakuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GEO-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 555
 Dar es Salaam, United Republic of Tanzania.

Notes:

No.	Amendment	By	Date

Design:

Checked: _____
 Approved: _____
 Date: 15 APR 2006

Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

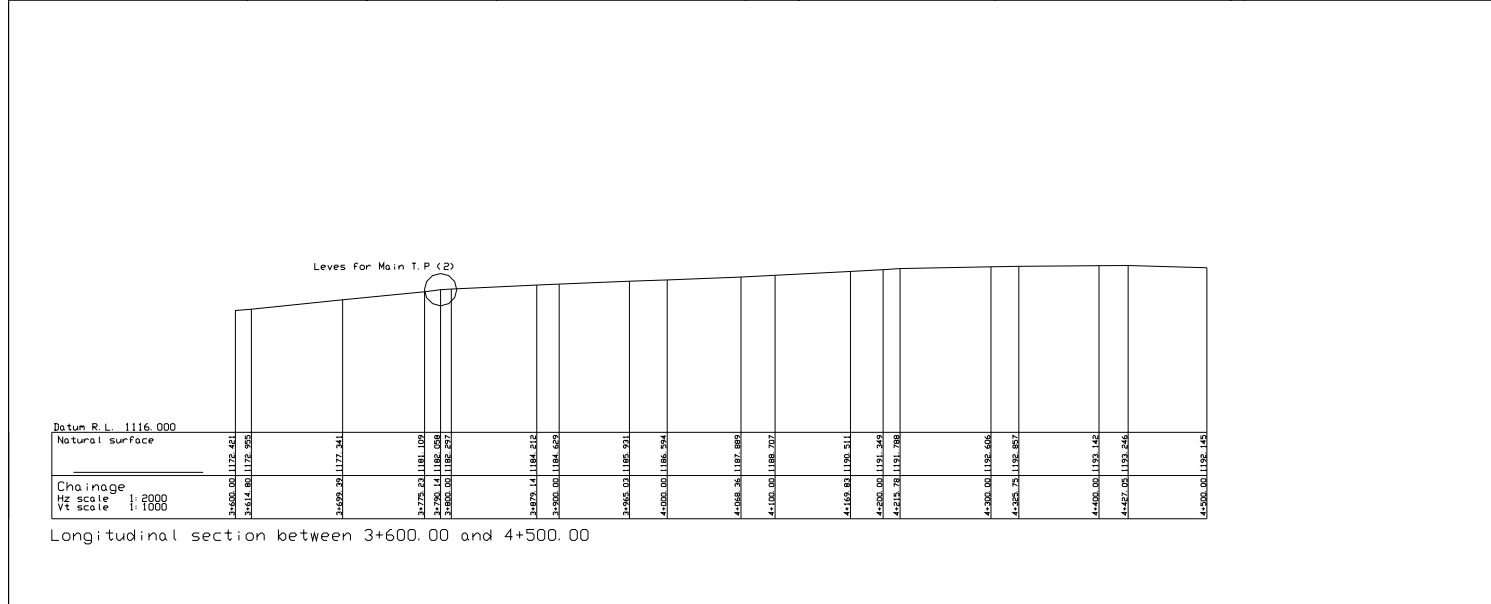
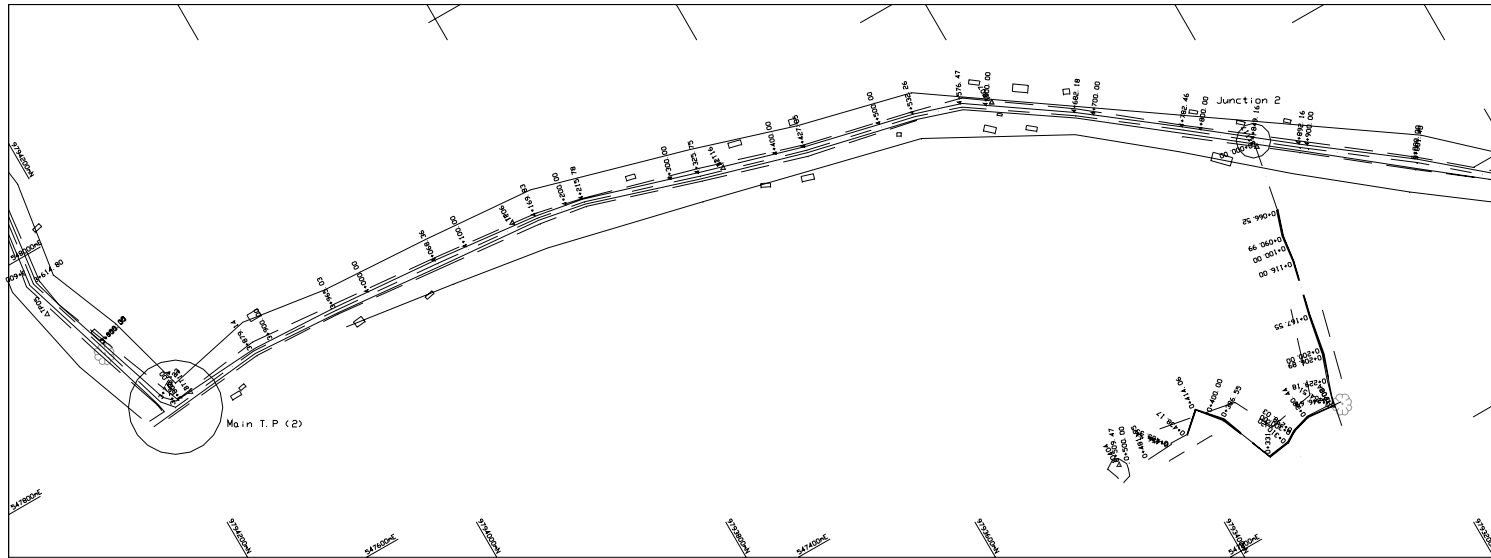
Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR BUTATA FINAL

Scale: HZ 1:2000
 VT 1:1000

Revision: _____

Job ID: DWG1 Drawing No: 04

Survey Drawings Butata 4



Client:
KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor:
GEO-HYDRO CONSULTANTS LTD
 P. O. Box 104470, Tel: +255 748 490 303
 Dar es Salaam, United Republic of Tanzania

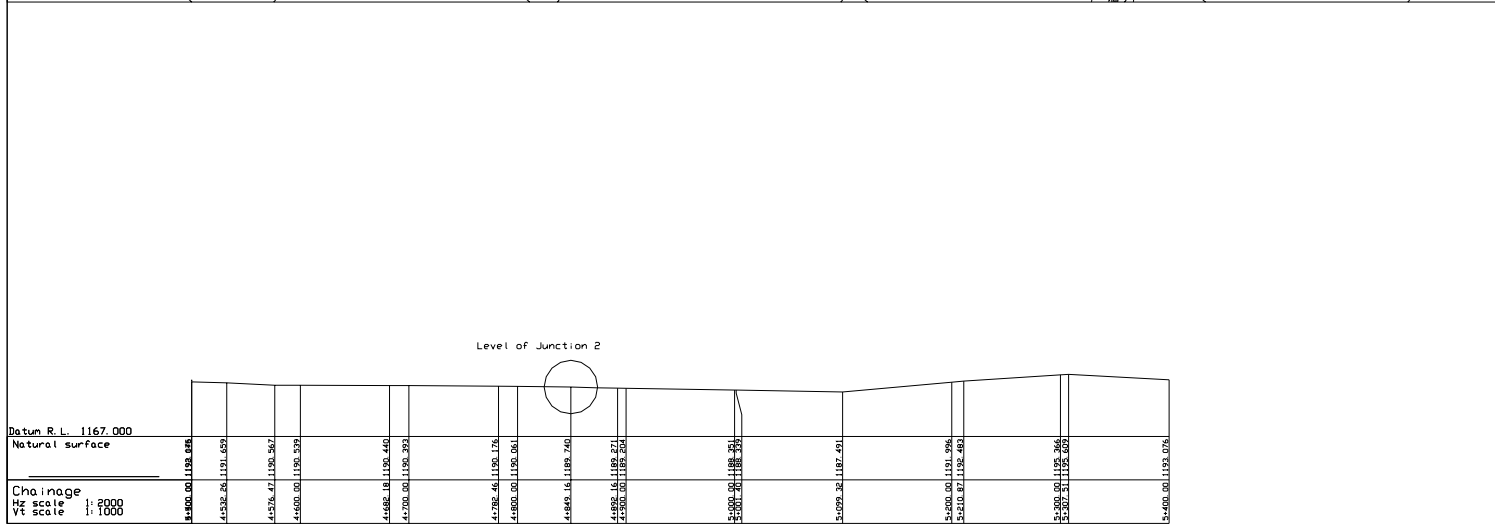
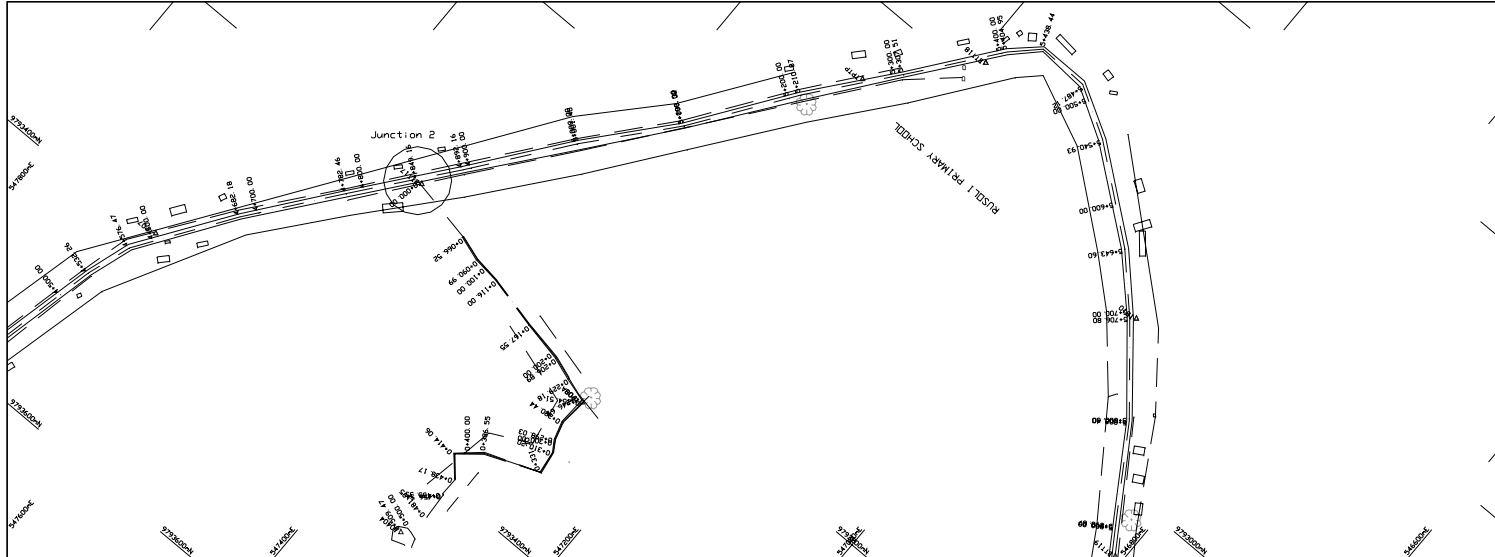
Notes:

No.	Amendment.	By.	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date:		15 APR 2006

Job Title:
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN MWANZA AND MARA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title:
 PLAN AND LONGITUDINAL PROFILE
 FOR
 BUTATA FINAL

Scale:	Revision:
HZ 1:2000	
VT 1:1000	
Job ID: DWG1	Drawing No: 05



Longitudinal section between 4+500.00 and 5+400.00

Datum R. L. 1167.000

Natural surface

Chainage
 HZ scale 1:2000
 VT scale 1:1000

5+400.00	5+350.00	5+300.00	5+250.00	5+200.00	5+150.00	5+100.00	5+050.00	5+000.00
1167.133	1167.111	1167.089	1167.067	1167.045	1167.023	1167.001	1166.979	1166.957

Client:
 KOKUSAI KOGYO CO. LTD
 2-10-1, Roppongi, Chiyoda-ku
 Tokyo, Japan.
 Contractor:
 GEO-HYDRO CONSULTANTS LTD
 P. O. Box 18469, Tel: +255 748 490 200
 Dar es Salaam, United Republic of Tanzania

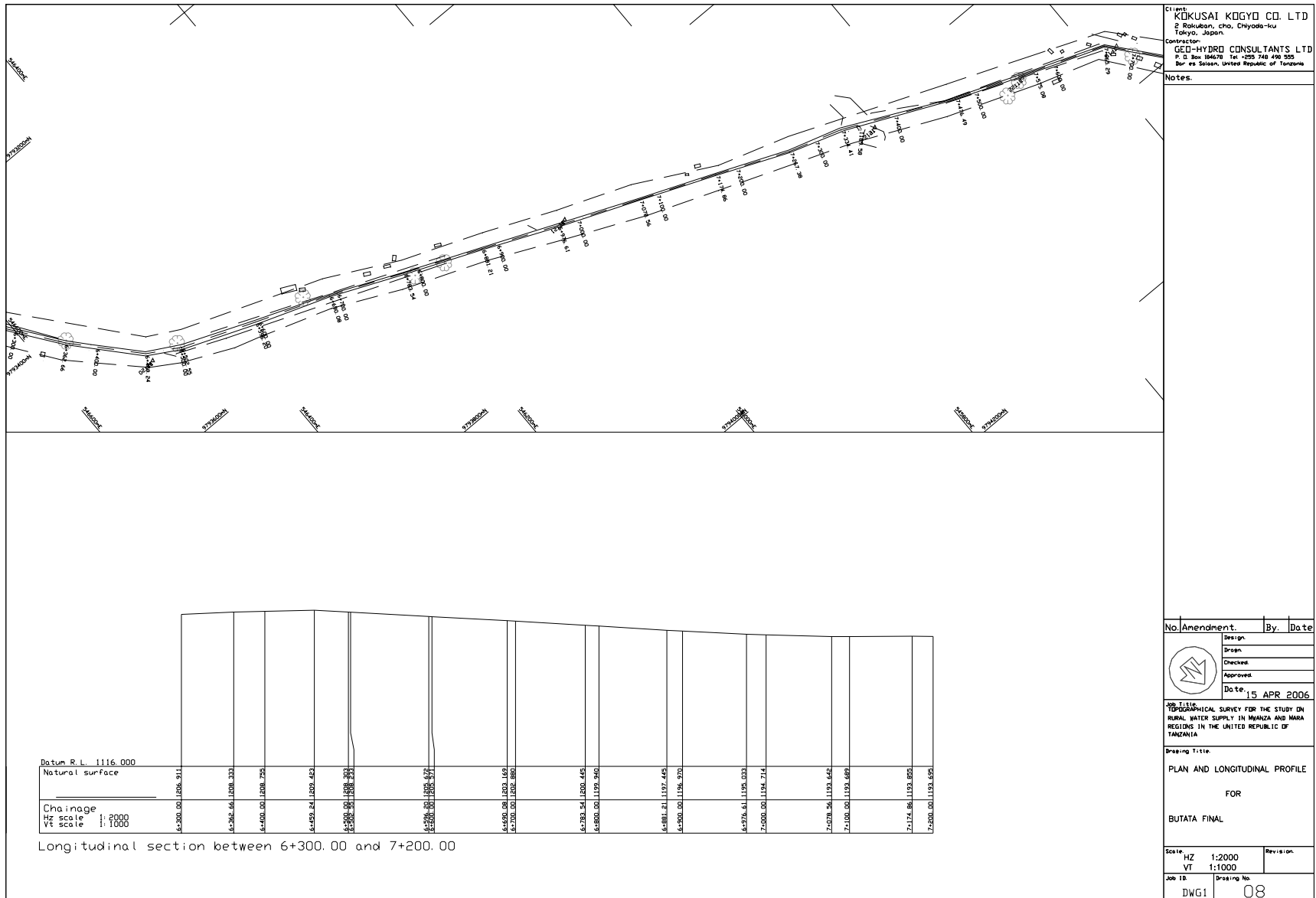
Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date	22 APR 2006	

Job Title:
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN HANANG AND MWAHA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title:
 PLAN AND LONGITUDINAL PROFILE
 FOR
 BUTATA FINAL

Scale	HZ 1:2000	Revision
	VT 1:1000	
Job No.	DWG1	Drawing No.
		06



Client: KOKUSAI KOGYO CO. LTD
2 Rokuban, cho, Chiyoda-Ku
Tokyo, Japan.
Contractor: GEO-HYDRO CONSULTANTS LTD
P. O. Box 184678 Tel: +255 748 498 535
Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date	15 APR 2006	

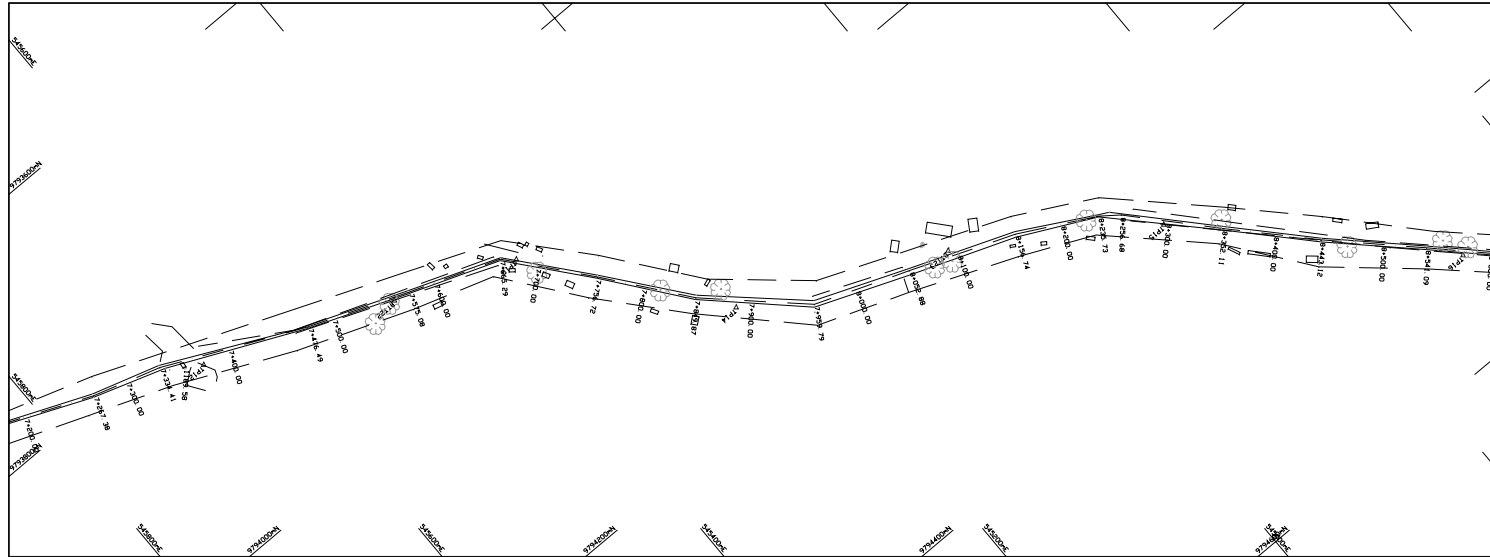
Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWANDA AND MASA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR BUTATA FINAL

Scale: HZ 1:2000
VT 1:1000

Job ID: DWG1
Drawing No: 08

Survey Drawings Butata 8



Stationing	Elevation
7+200.00	1131.266
7+250.00	1131.160
7+300.00	1131.054
7+350.00	1131.000
7+400.00	1131.000
7+450.00	1131.000
7+500.00	1131.000
7+550.00	1131.000
7+600.00	1131.000
7+650.00	1131.000
7+700.00	1131.000
7+750.00	1131.000
7+800.00	1131.000
7+850.00	1131.000
7+900.00	1131.000
7+950.00	1131.000
8+000.00	1131.000
8+050.00	1131.000
8+100.00	1131.000
8+150.00	1131.000
8+200.00	1131.000
8+250.00	1131.000
8+300.00	1131.000

Longitudinal section between 7+200.00 and 8+100.00

Datum R. L. 1116.000
 Natural surface
 Chainage
 HZ scale 1:2000
 VT scale 1:1000

Client: KOKUSAI KOGYO CO. LTD
 2 Rokusen, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GEO-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 744 490 225
 Dar es Salaam, United Republic of Tanzania

Notes:

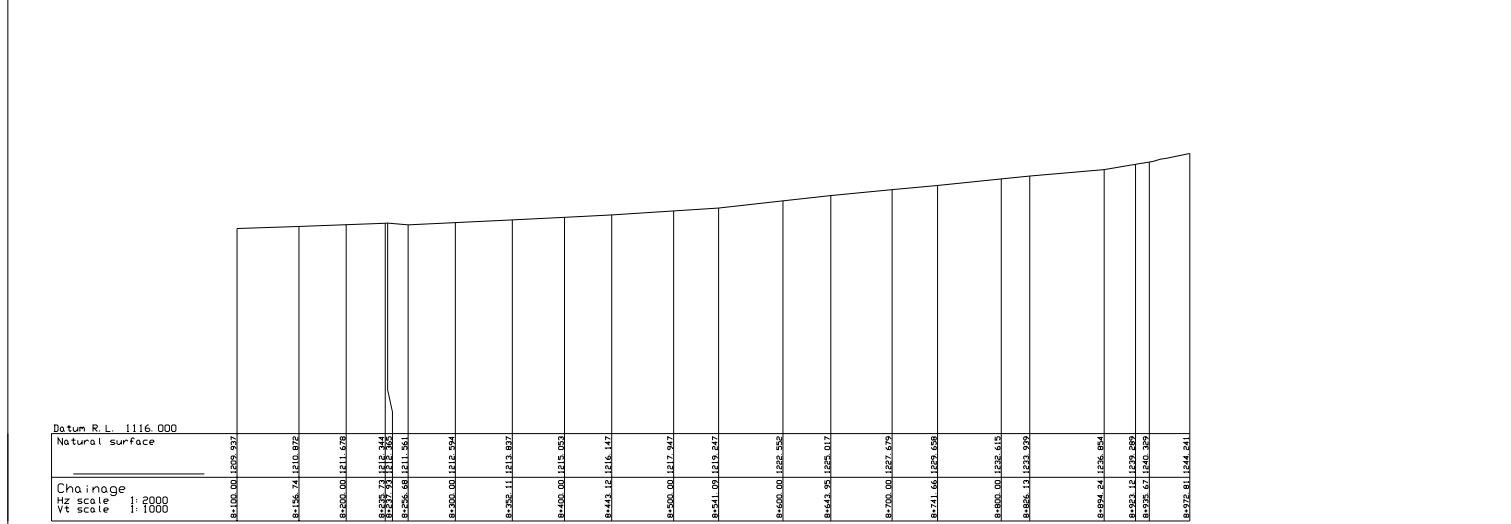
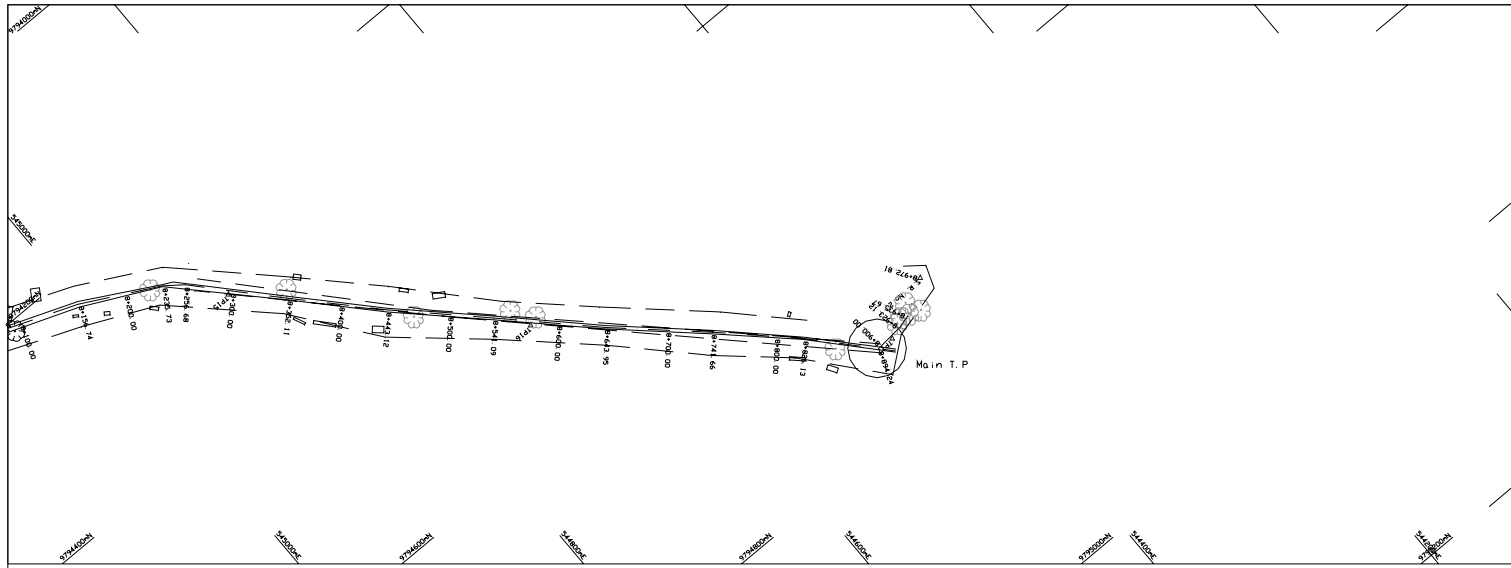
No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		15 APR 2006

Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR BUTATA FINAL

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID: DWG1 Drawing No: 09



Longitudinal section between 8+100.00 and 8+972.81

Client: KOKUSAI KOGYO CO. LTD
 2 Rokusen, cho, Chiyoda-ku
 Tokyo, Japan.

Contractor: GED-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 440 355
 Dar es Salaam, United Republic of Tanzania

Notes:

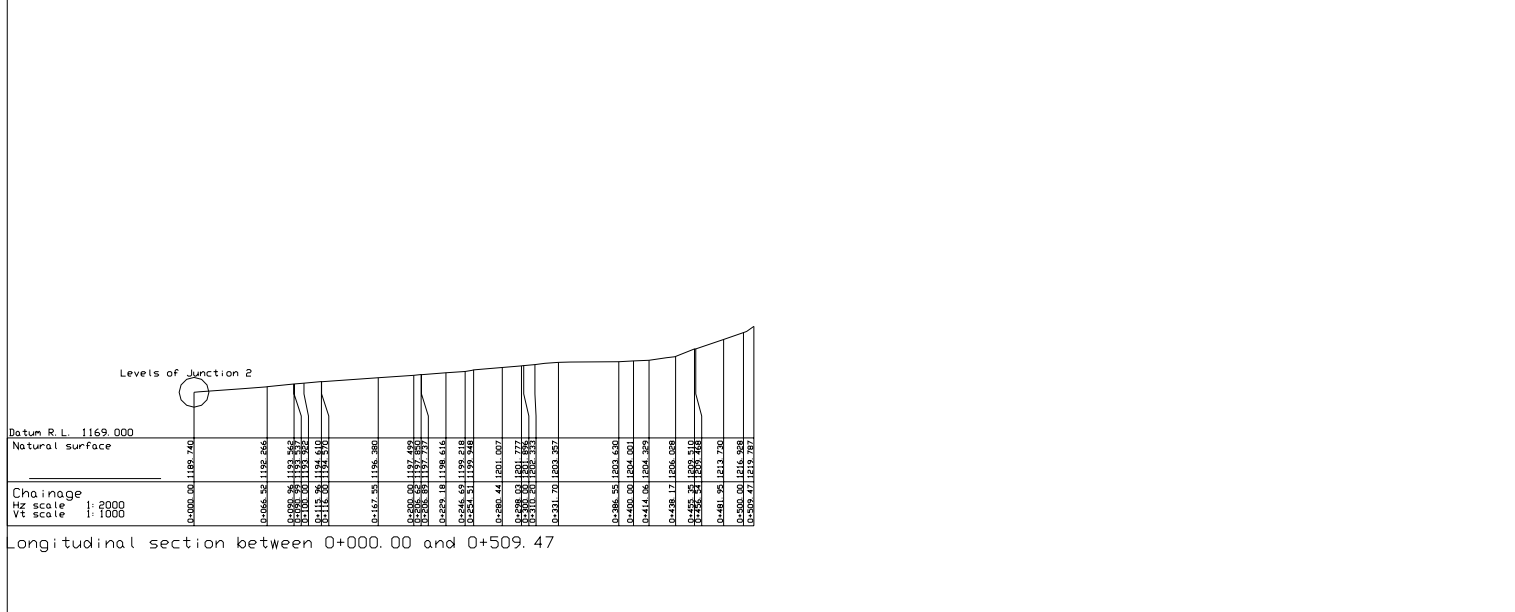
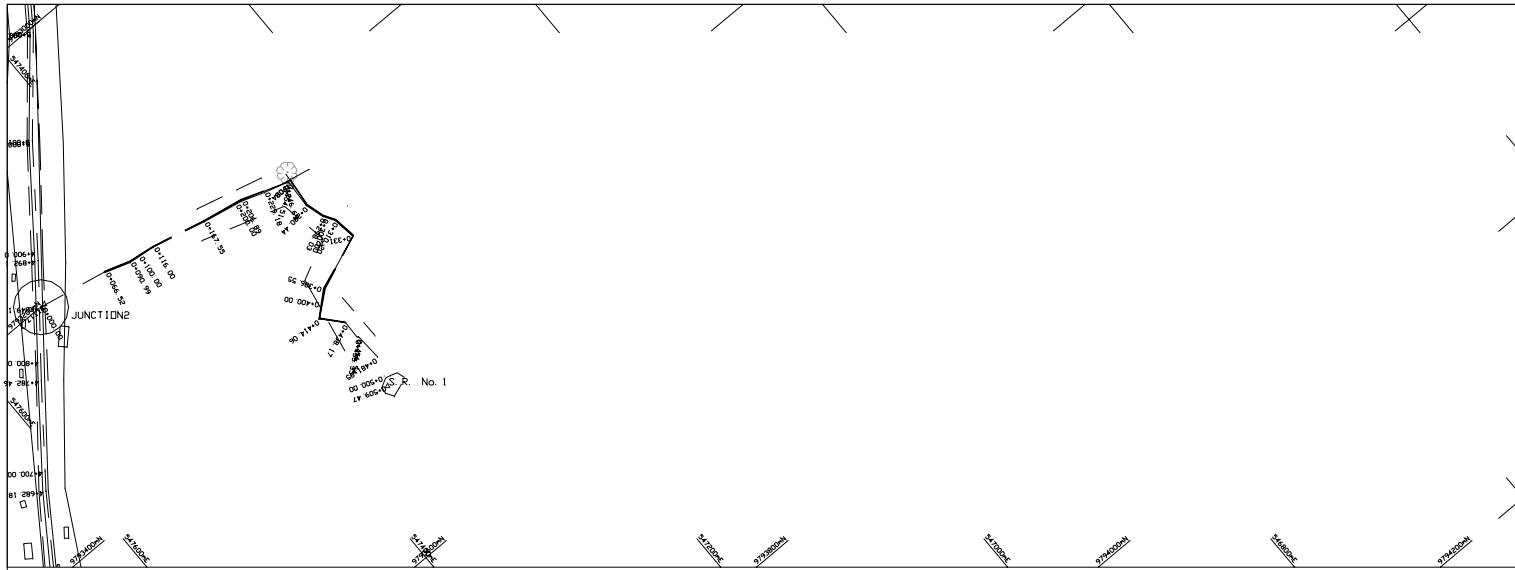
No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		15 APR 2006

Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR BUTATA FINAL

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No
DWG1	10



CLIENT:
KOKUSAI KOGYO CO. LTD
 2 Rokuson, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor:
GED-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 955
 Dar es Salaam, United Republic of Tanzania

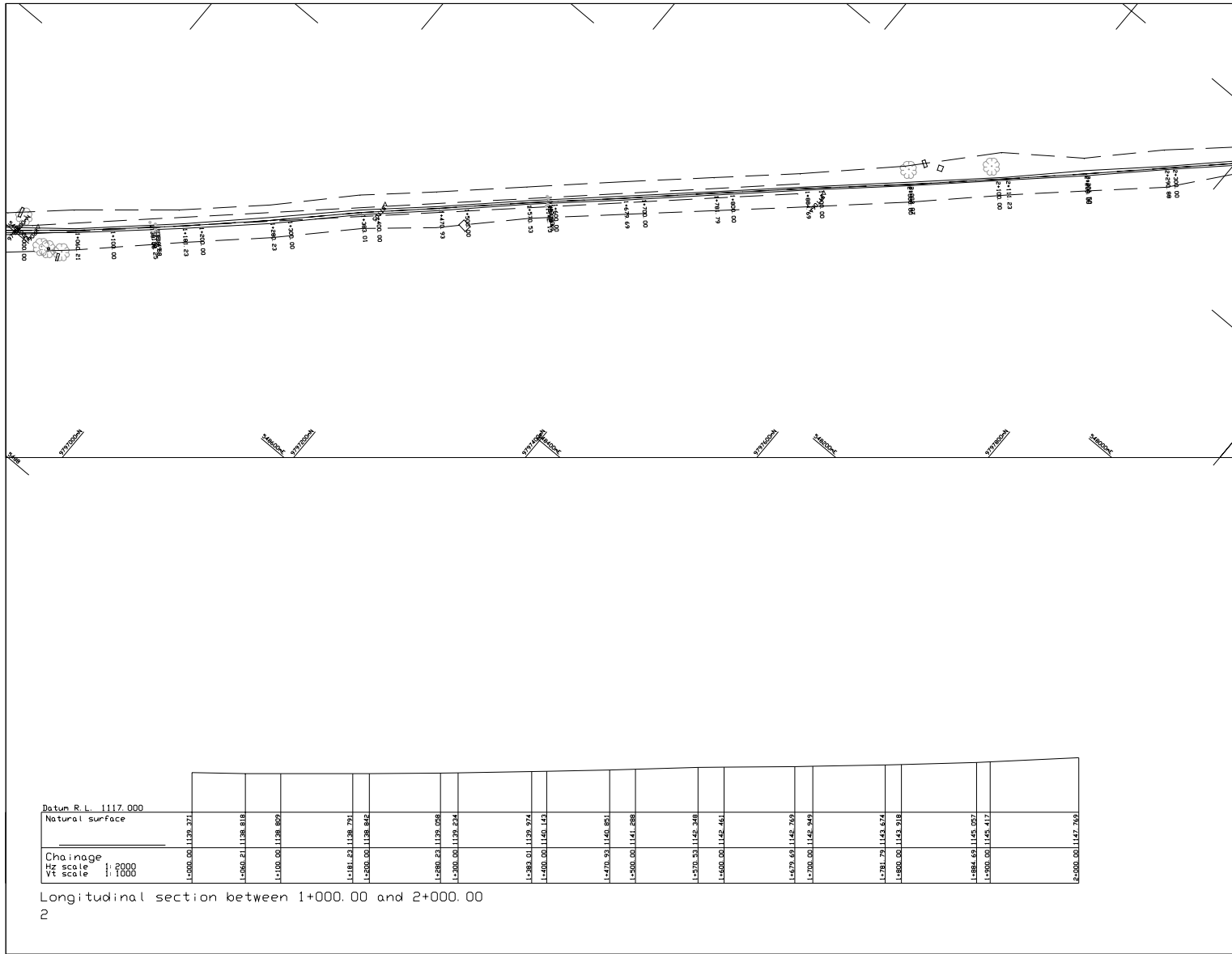
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No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		22 APR 2006

Job Title:
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN WANJAZI AND MABA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title:
 PLAN AND LONGITUDINAL PROFILE
 FOR
 BUTATA FINAL

Scale	HZ 1:2000	Revision
	VT 1:1000	
Job ID	BTA	Drawing No
		1



Client: KOKUSAI KOGYO CO. LTD
2 Rokuban, cho, Chiyoda-ku
Tokyo, Japan.
Contractor: GEO-HYDRD CONSULTANTS LTD
P. O. Box 104678 Tel: +255 748 490 005
Dar es Salaam, United Republic of Tanzania

Notes:

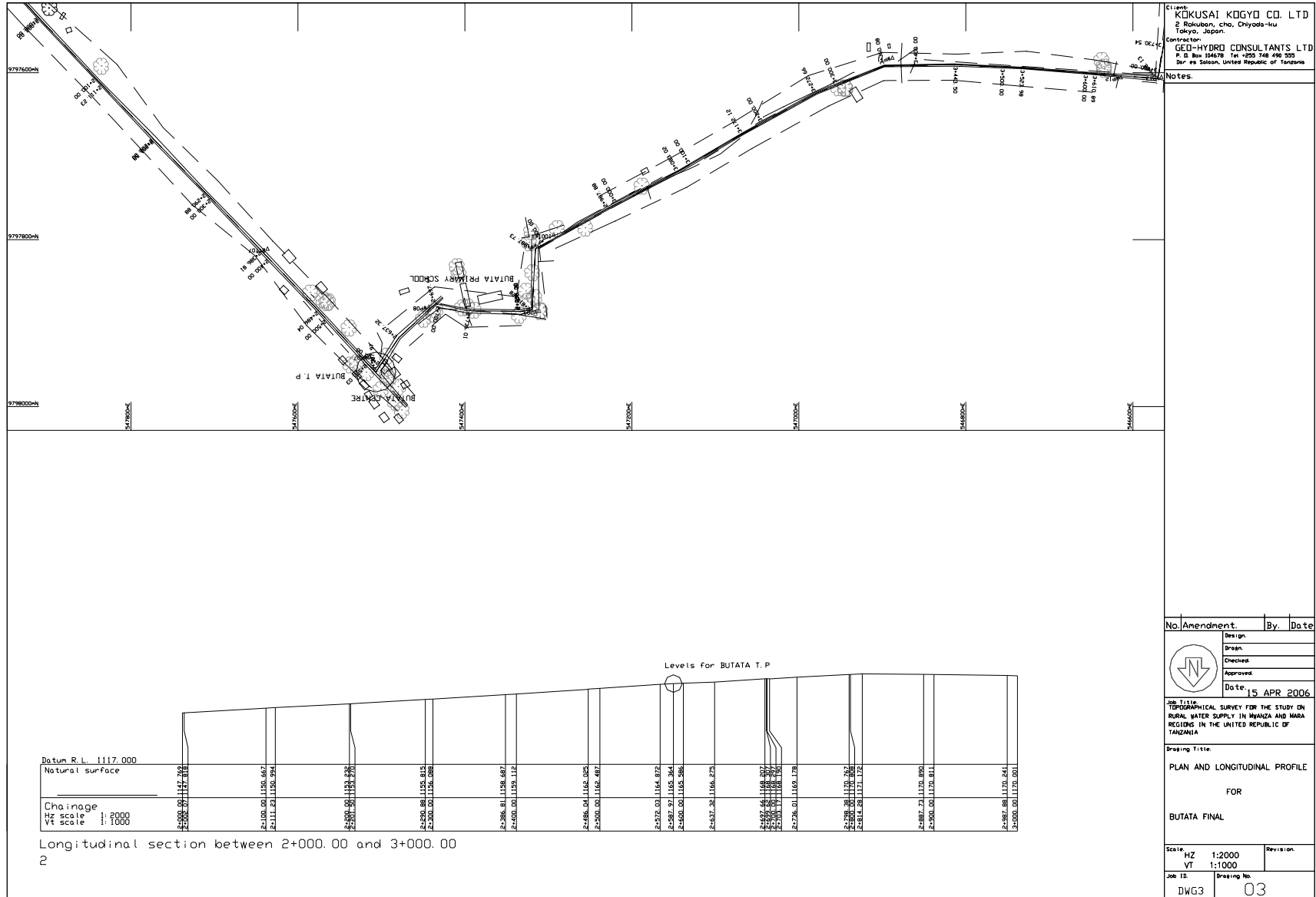
No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
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	Date		15 APR 2006

Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWAZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

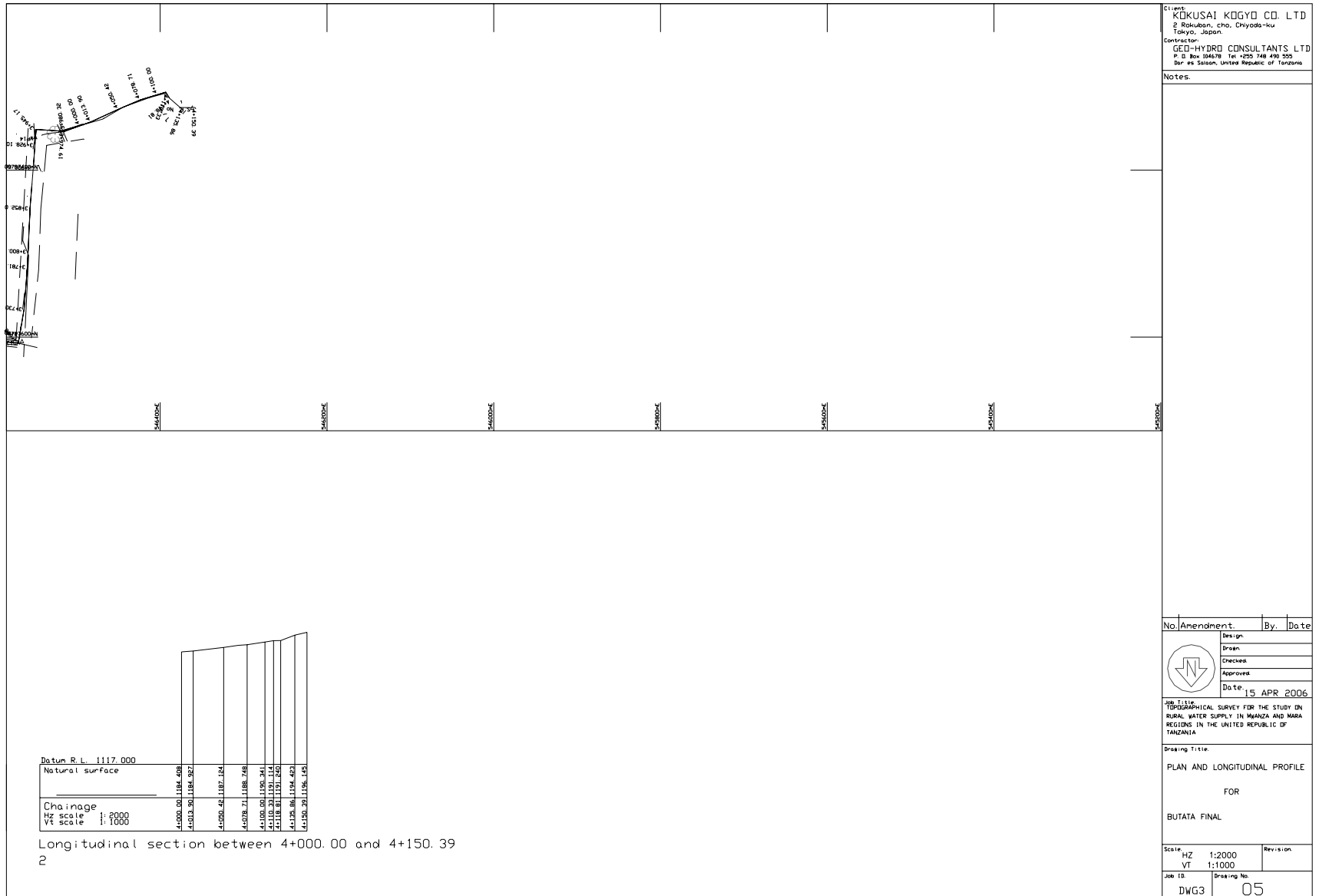
Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR BUTATA FINAL

Scale	HZ 1:2000	Revision	
	VT 1:1000		
Job ID	DWG3	Drawing No.	02

Survey Drawings Butata 13



Survey Drawings Butata 14



Client: KOKUSAI KOGYO CO. LTD
 2-1-1, Rikuden, Chō, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GED-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 335
 Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		15 APR 2006

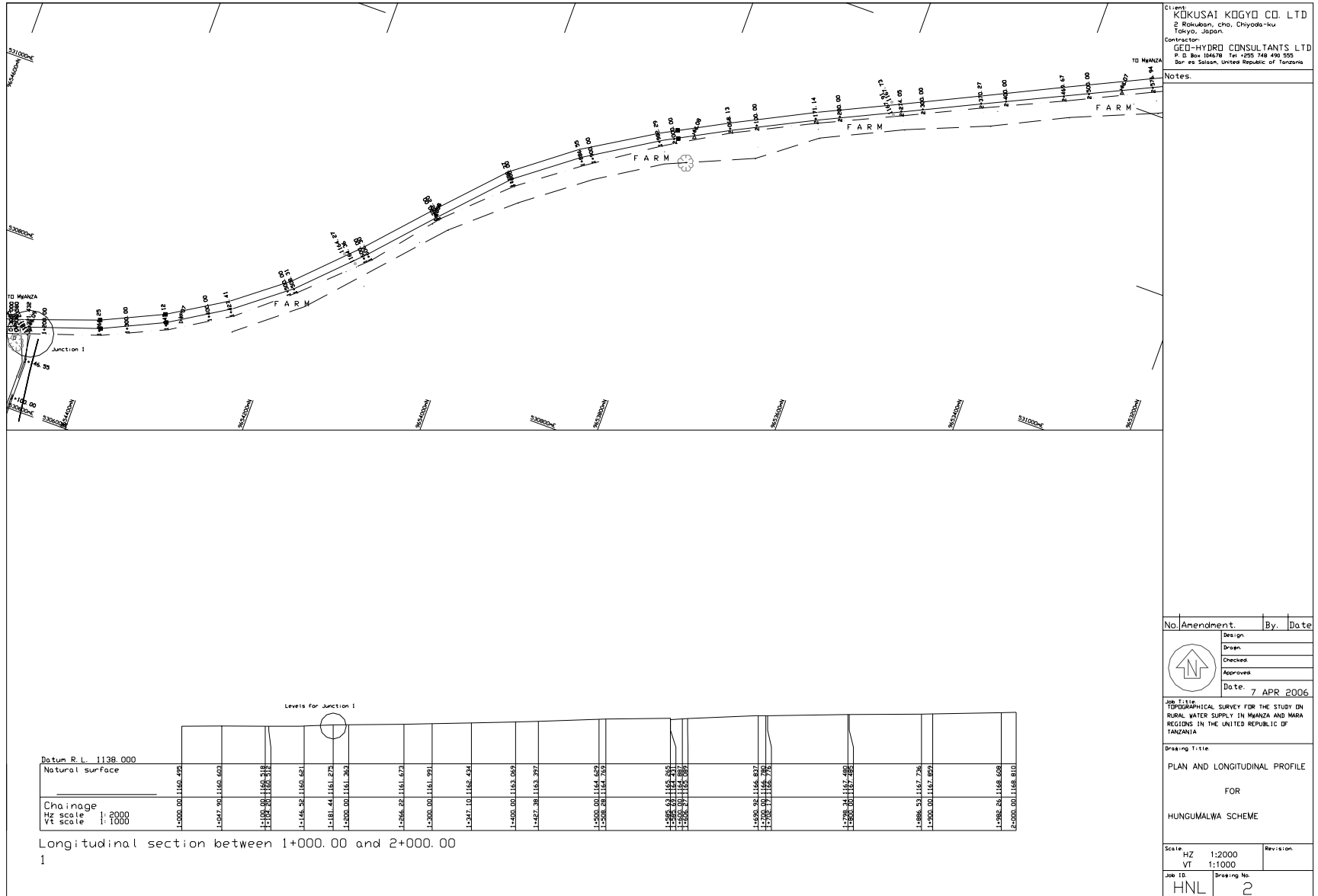
Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MABA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR BUTATA FINAL

Scale:	HZ 1:2000	Revision:	
	VT 1:1000		

Job ID:	DWG3	Drawing No.:	05
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Survey Drawings Butata 16



Client: **KOKUSAI KOGYO CO. LTD**
 2 Rokusun, cho, Chiyoda-ku
 Tokyo, Japan
 Contractor: **GEO-HYDRO CONSULTANTS LTD**
 P. O. Box 184678 Tel: +255 748 490 555
 Dar es Salaam, United Republic of Tanzania

Notes:

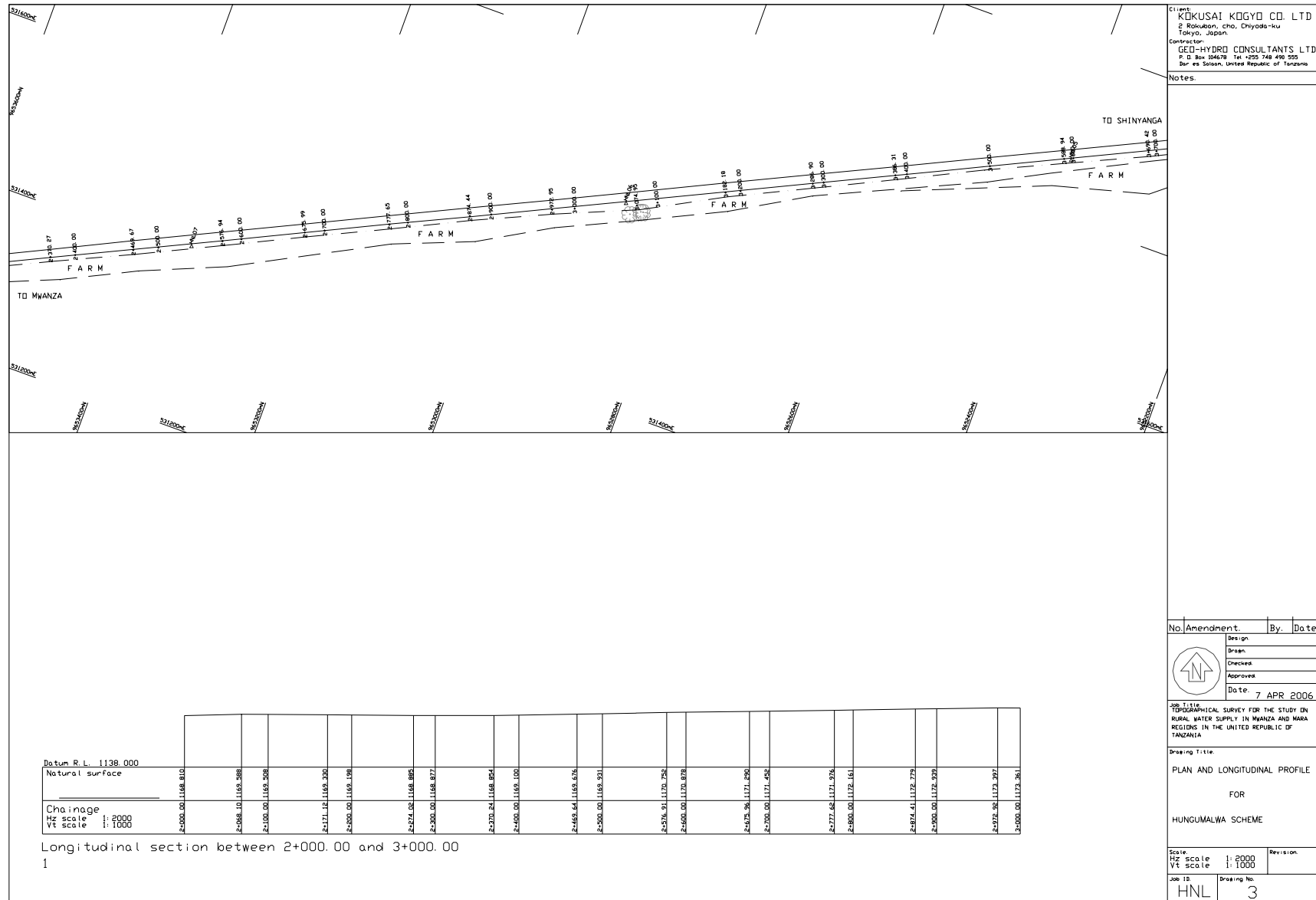
No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date	7 APR 2006	

Job Title: **TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN Mwanza AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA**

Drawing Title: **PLAN AND LONGITUDINAL PROFILE FOR HUNGUMALWA SCHEME**

Scale:	HZ 1:2000	Revision:
	VT 1:1000	
Job ID:	HNL	Drawing No:
		2

Survey Drawings Hungumalwa 2



Client: KOKUSAI KOGYO CO. LTD
2 Rokuson, cho, Chiyoda-ku
Tokyo, Japan
Contractor: GEO-HYDRO CONSULTANTS LTD
P. O. Box 33478 Tel: 025 748 490 325
Dar es Salaam, United Republic of Tanzania

Notes

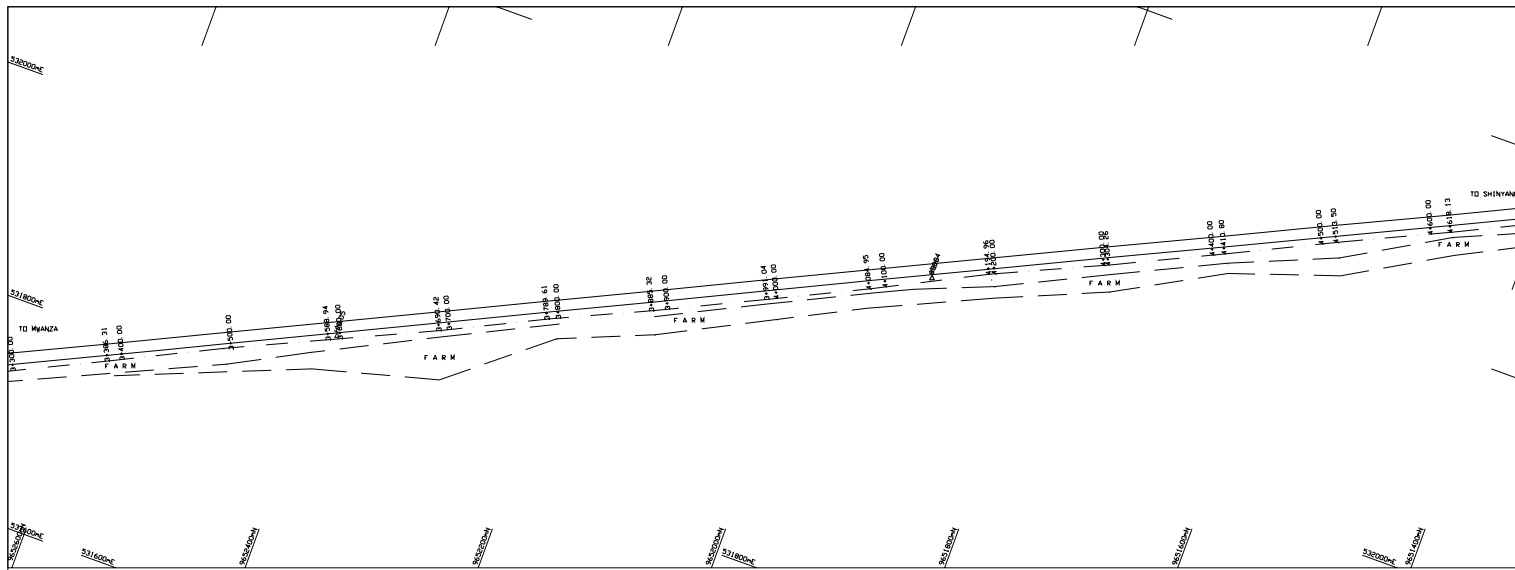
TO SHINYANGA

TO MWANZA

F A R M

No. Amendment	By	Date
Design		
Drawn		
Checked		
Approved		
Date	7 APR 2006	
Job Title TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA		
Drawing Title PLAN AND LONGITUDINAL PROFILE FOR HUNGUMALWA SCHEME		
Scale Hx scale 1:2000 Vt scale 1:1000	Revision	
Job No HNL	Drawing No 3	

Survey Drawings Hungumalwa 3



Datum R.L. 1138.000

Natural surface

Chainage
 HZ scale 1:2000
 VT scale 1:1000

Longitudinal section between 3+000.00 and 4+000.00

1

3+000.00	3+050.00	3+100.00	3+150.00	3+200.00	3+250.00	3+300.00	3+350.00	3+400.00	3+450.00	3+500.00	3+550.00	3+600.00	3+650.00	3+700.00	3+750.00	3+800.00	3+850.00	3+900.00	3+950.00	4+000.00
1177.381	1177.381	1177.381	1177.381	1177.381	1177.381	1177.381	1177.381	1177.381	1177.381	1177.381	1177.381	1177.381	1177.381	1177.381	1177.381	1177.381	1177.381	1177.381	1177.381	1177.381

Client:
 KOKUSAI KOGYO CO. LTD
 2 Rokuban-cho, Chiyoda-ku
 Tokyo, Japan
 Contractor:
 GEI-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 555
 Dar es Salaam, United Republic of Tanzania

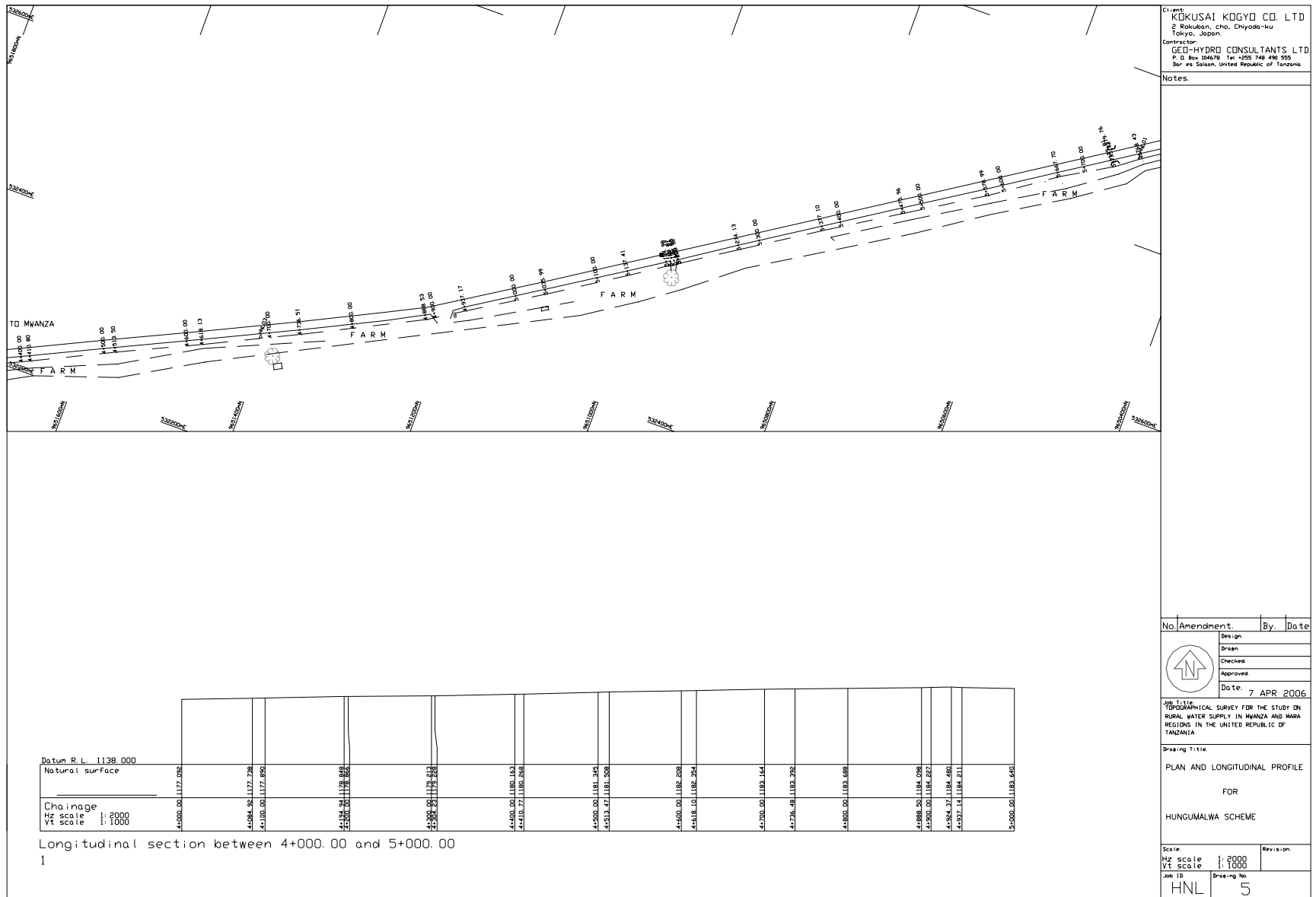
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No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		7 APR 2006

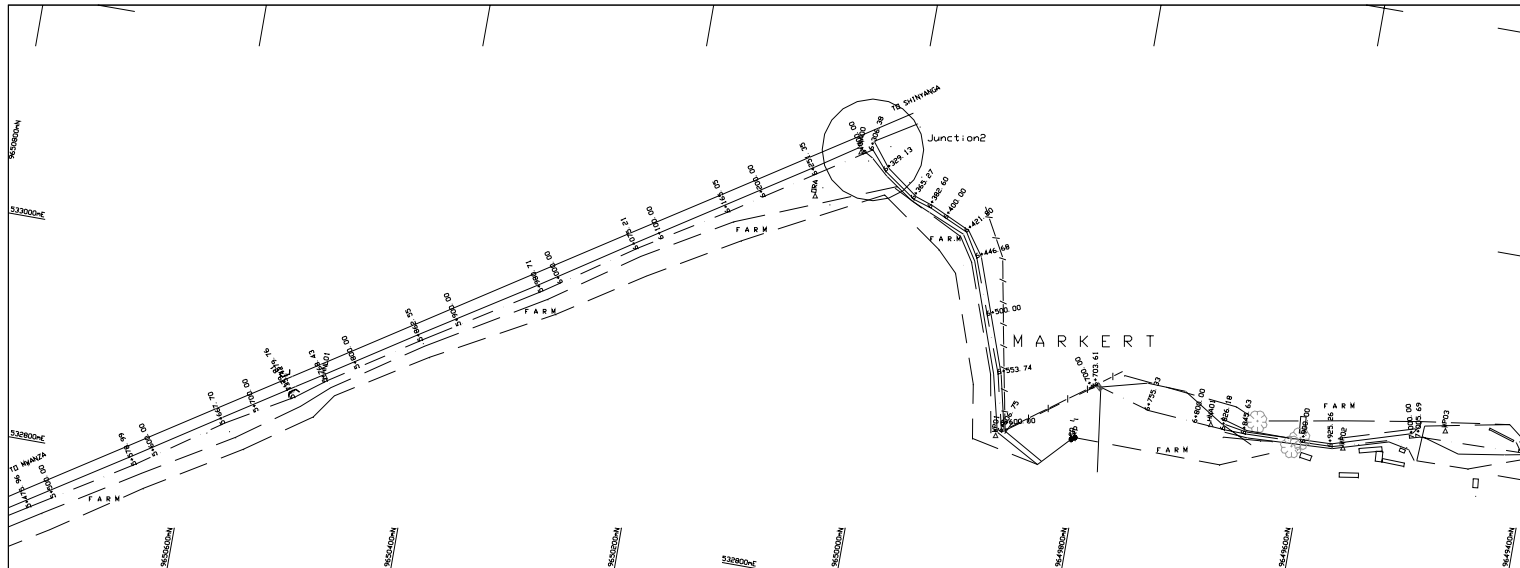
Job Title:
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN WANJAZI AND MWA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title:
 PLAN AND LONGITUDINAL PROFILE
 FOR
 HUNGUMALWA SCHEME

Scale	Revision
HZ scale 1:2000 VT scale 1:1000	
Job ID: HNL	Drawing No: 4



Survey Drawings Hungumalwa 5



Station	Profile
5+000.00	1188.640
5+025.00	1188.313
5+100.00	1188.912
5+175.00	1188.577
5+250.00	1188.136
5+325.00	1188.711
5+400.00	1188.287
5+475.00	1188.848
5+550.00	1188.418
5+625.00	1188.992
5+700.00	1188.562
5+775.00	1188.136
5+850.00	1188.711
5+925.00	1188.287
6+000.00	1188.861
6+075.00	1188.436

Datum R.L. 1138.000
 Natural surface
 Chainage
 HZ scale 1:2000
 VT scale 1:1000
 Longitudinal section between 5+000.00 and 6+000.00
 1

Client: KOKUSAI KOGYO CO. LTD
 2 Rikugun, cho, Chiyoda-ku
 Tokyo, Japan
 Contractor: GEI-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 555
 Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment	By	Date

	Design	
	Drawn	
	Checked	
	Approved	
Date:		7 APR 2006

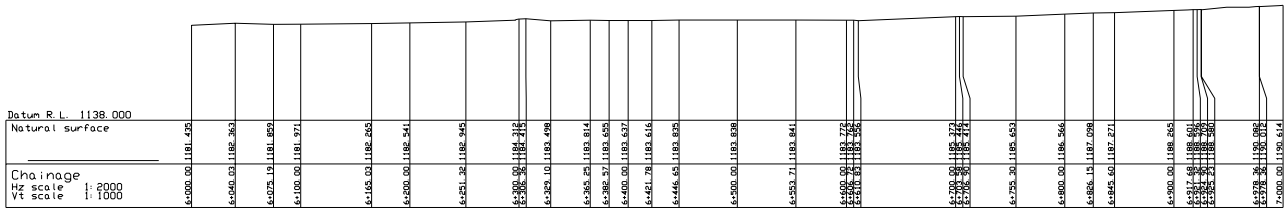
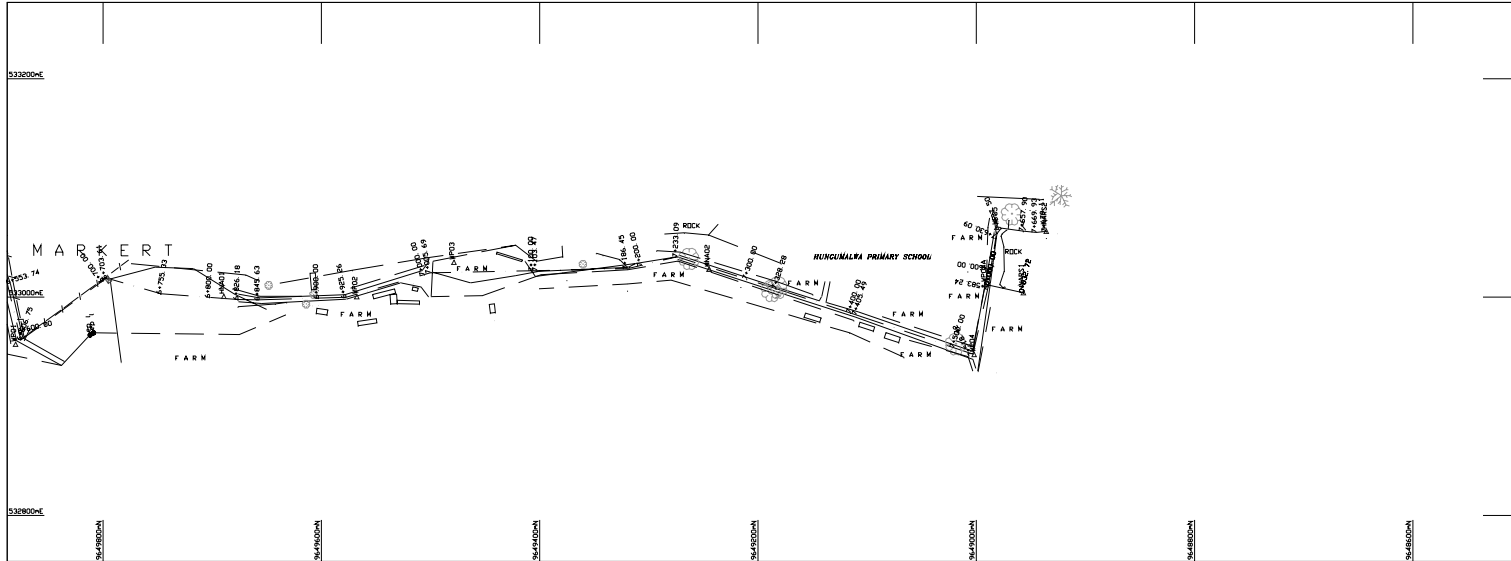
JOB TITLE
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN MWANZA AND MARA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title
 PLAN AND LONGITUDINAL PROFILE
 FOR
 HUNGUMALWA SCHEME

Scale	Revision
HZ scale 1:2000	
VT scale 1:1000	

Job ID	Drawing No.
HNL	6

Survey Drawings Hungumalwa 6

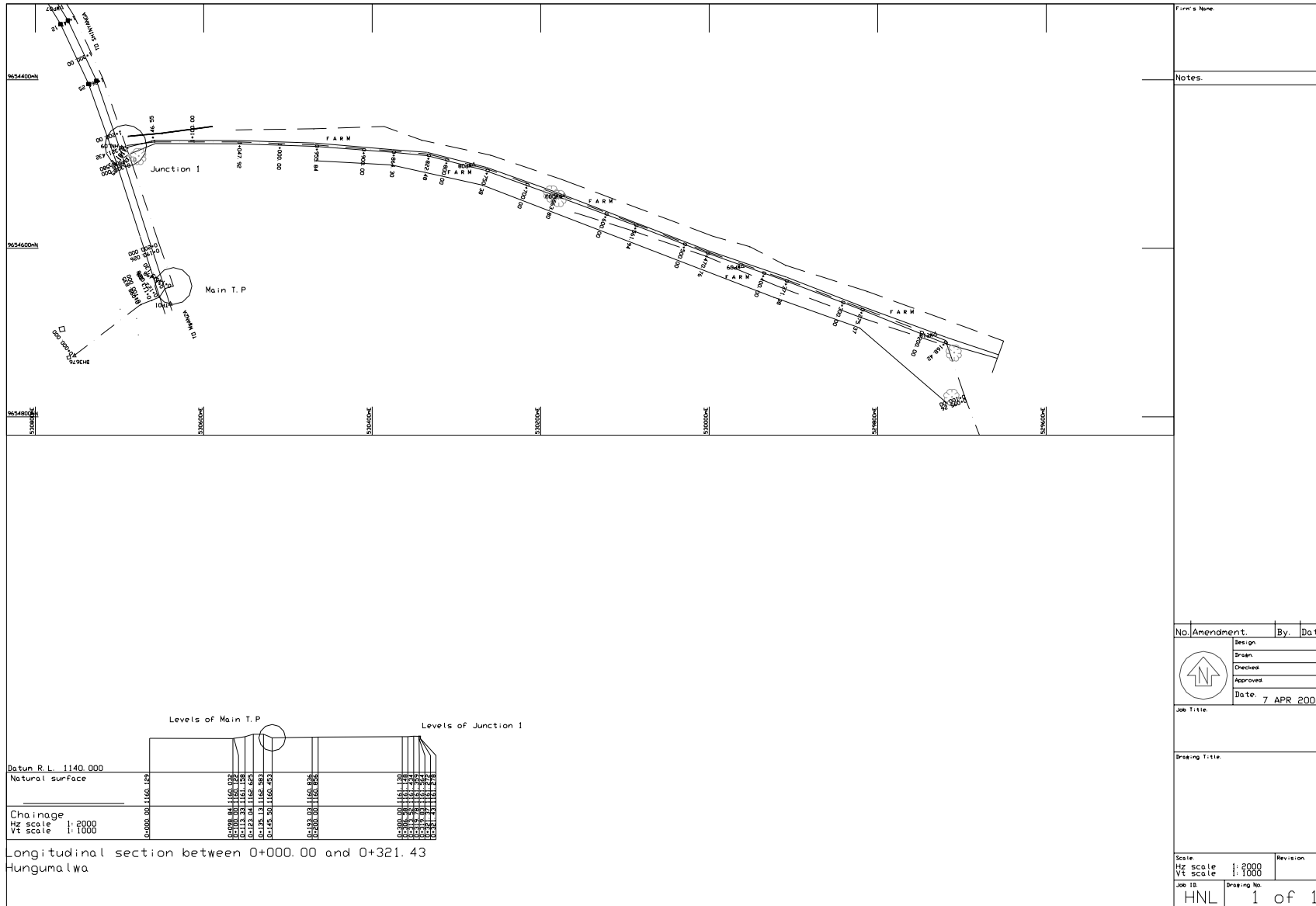


Longitudinal section between 6+000.00 and 7+000.00
1

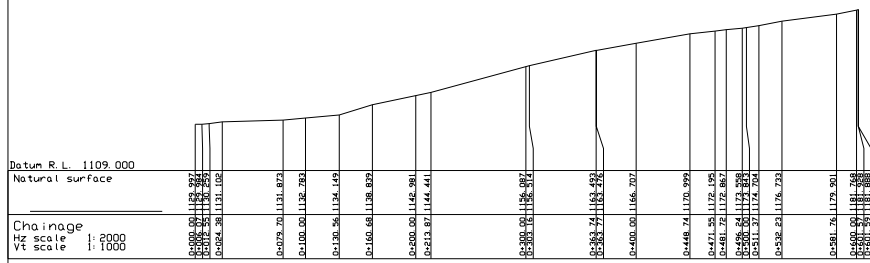
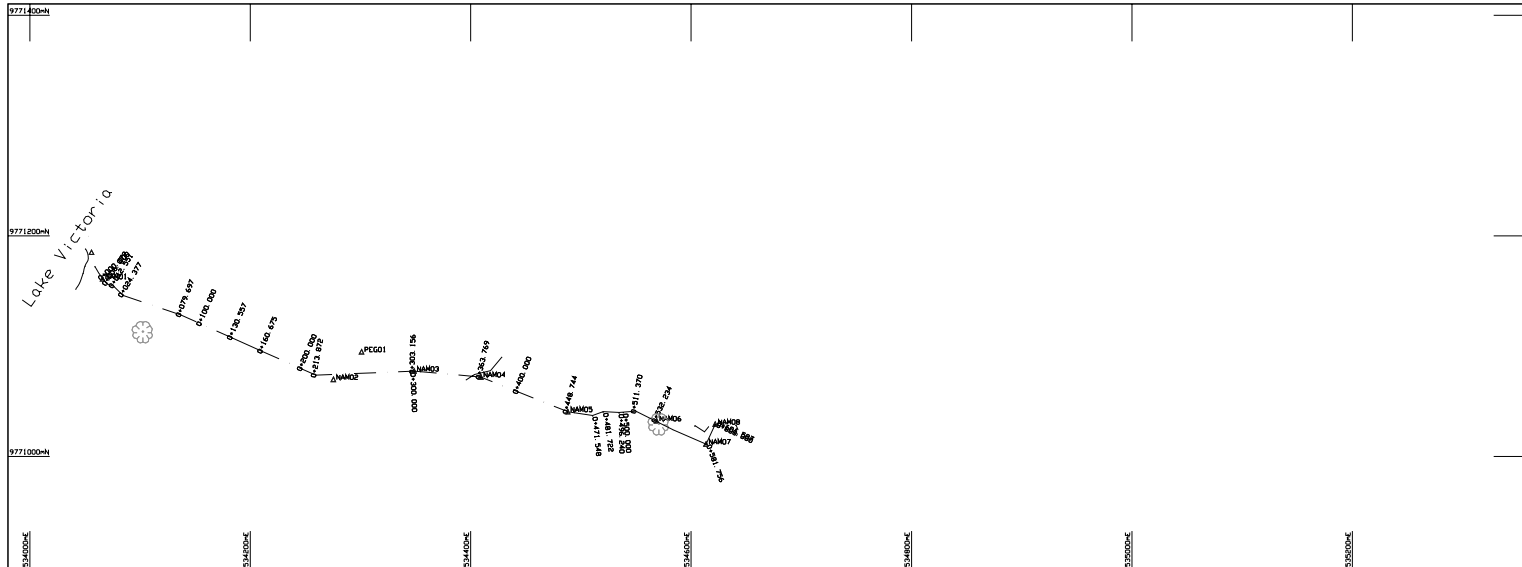
Client: KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GEO-HYDRO CONSULTANTS LTD
 P O Box 194679 Tel: +255 744 490 300
 Dar es Salaam, United Republic of Tanzania

Notes:

No. Amendment	By	Date
Design		
Drawn		
Checked		
Approved		
Date:	7 APR 2006	
Job Title TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA		
Drawing Title PLAN AND LONGITUDINAL PROFILE FOR HUNGUMALWA SCHEME		
Scale HZ scale 1:2000 VT scale 1:1000	Revision	
Job ID HNL	Drawing No 7	



Survey Drawings Hungumalwa 8



Longitudinal section between 0+000.00 and 0+601.59

Client
KOKUSAI KOGYO CO. LTD
 2-10-10, Rikubun, Chio, Chiyoda-ku
 Tokyo, Japan
 Contractor
GEO-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 355
 Dar es Salaam, United Republic of Tanzania

Notes:

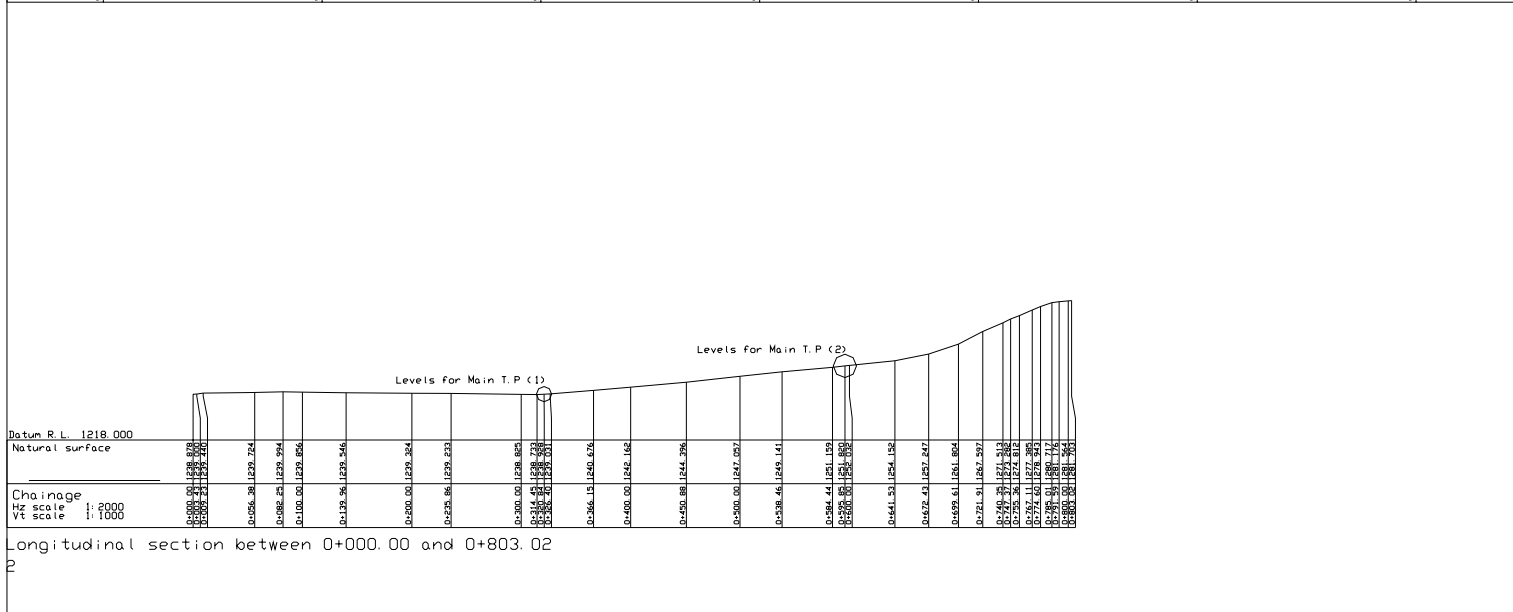
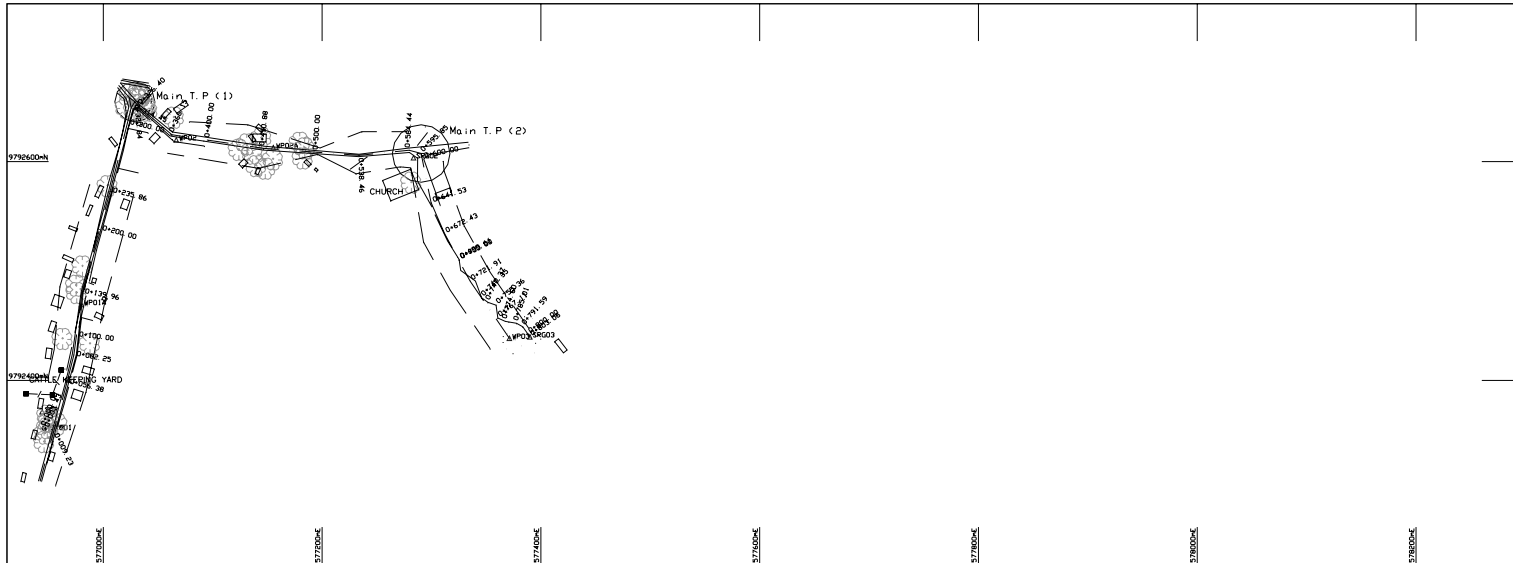
No.	Amendment	By	Date

	Design	
	Drawn	
	Checked	
	Approved	
Date		22 APR 2006

Job Title
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN MWANZA AND MARA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title
 PLAN AND LONGITUDINAL PROFILE
 FOR
 Namalama Scheme

Scale:	HZ 1:2000	Revision
	VT 1:1000	
Job ID	Drawing No.	
BND	1	



Client: KOKUSAI KOGYO CO. LTD
 2 Rokusun-cho, Chiyoda-ku
 Tokyo, Japan

Contractor: GED-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 355
 Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		21 APR 2006

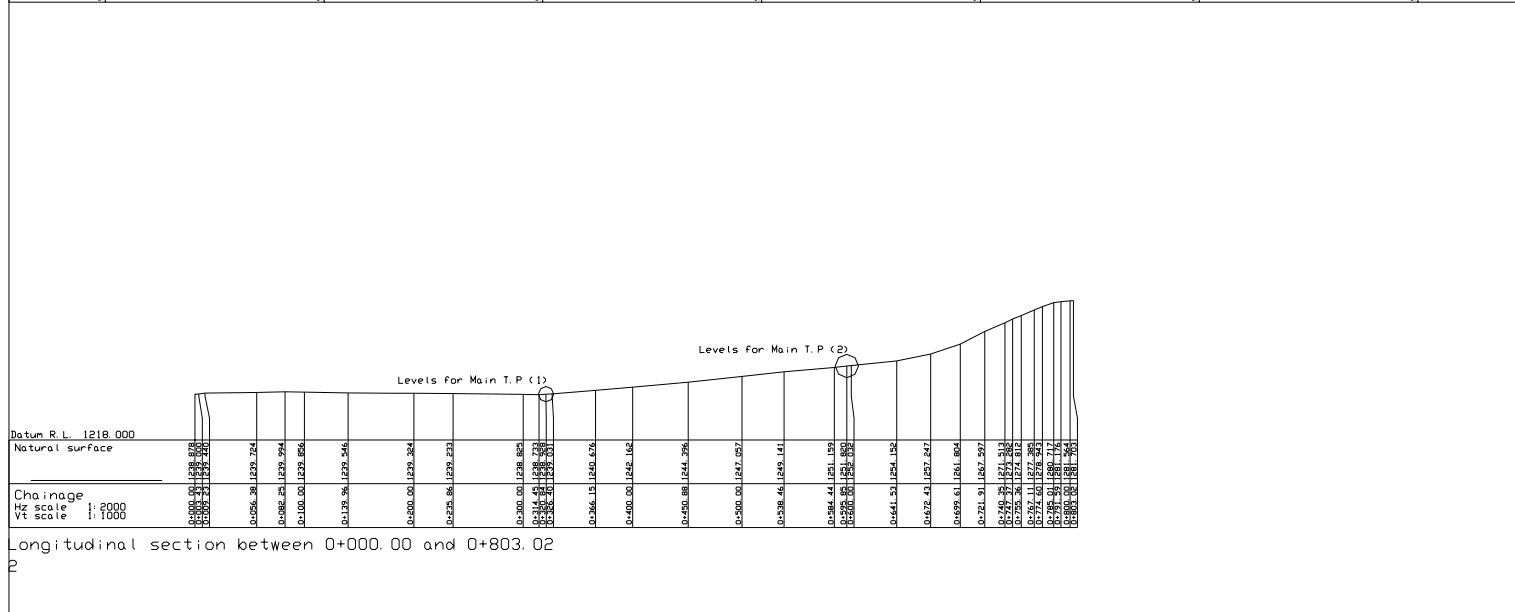
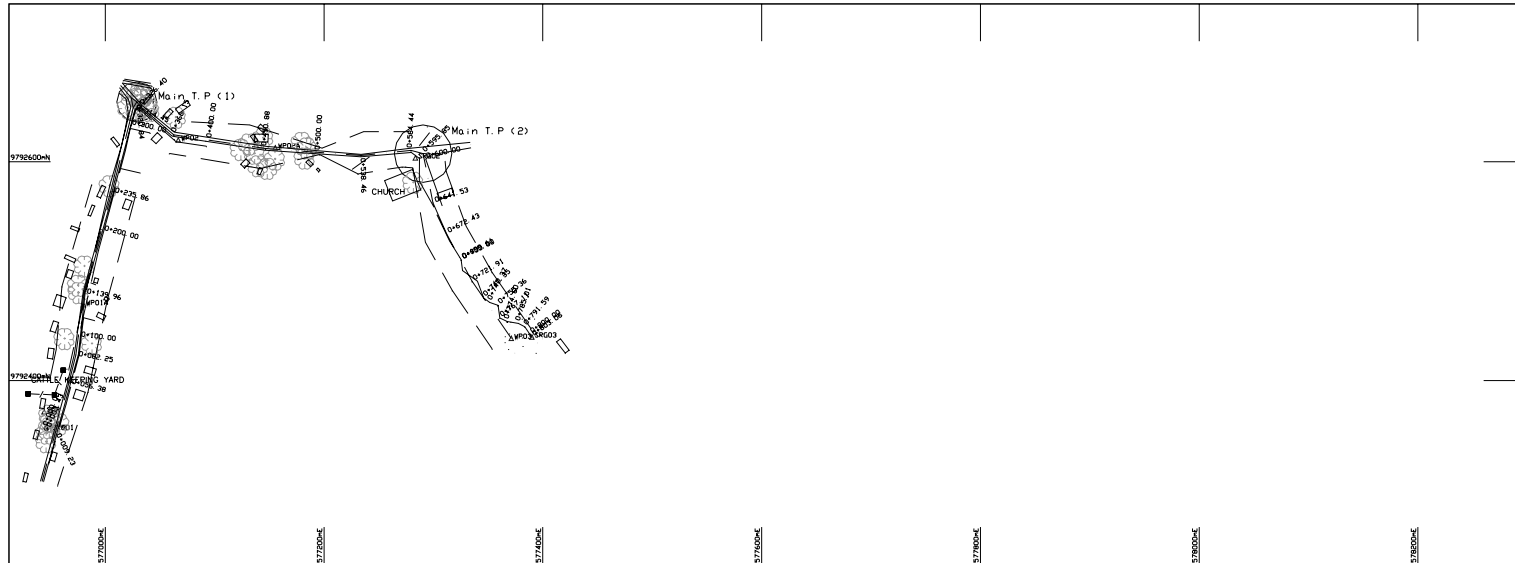
Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR SARAGANA SCHEME

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No
SRN	1

Survey Drawings Saragana 1



Client: KOKUSAI KOGYO CO. LTD
 2 Rokusagon, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GED-HYDRO CONSULTANTS LTD
 P. O. Box 004678, Tel: +255 748 490 505
 Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment.	By.	Date
	Design		
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	Checked		
	Approved		
	Date		21 APR 2006

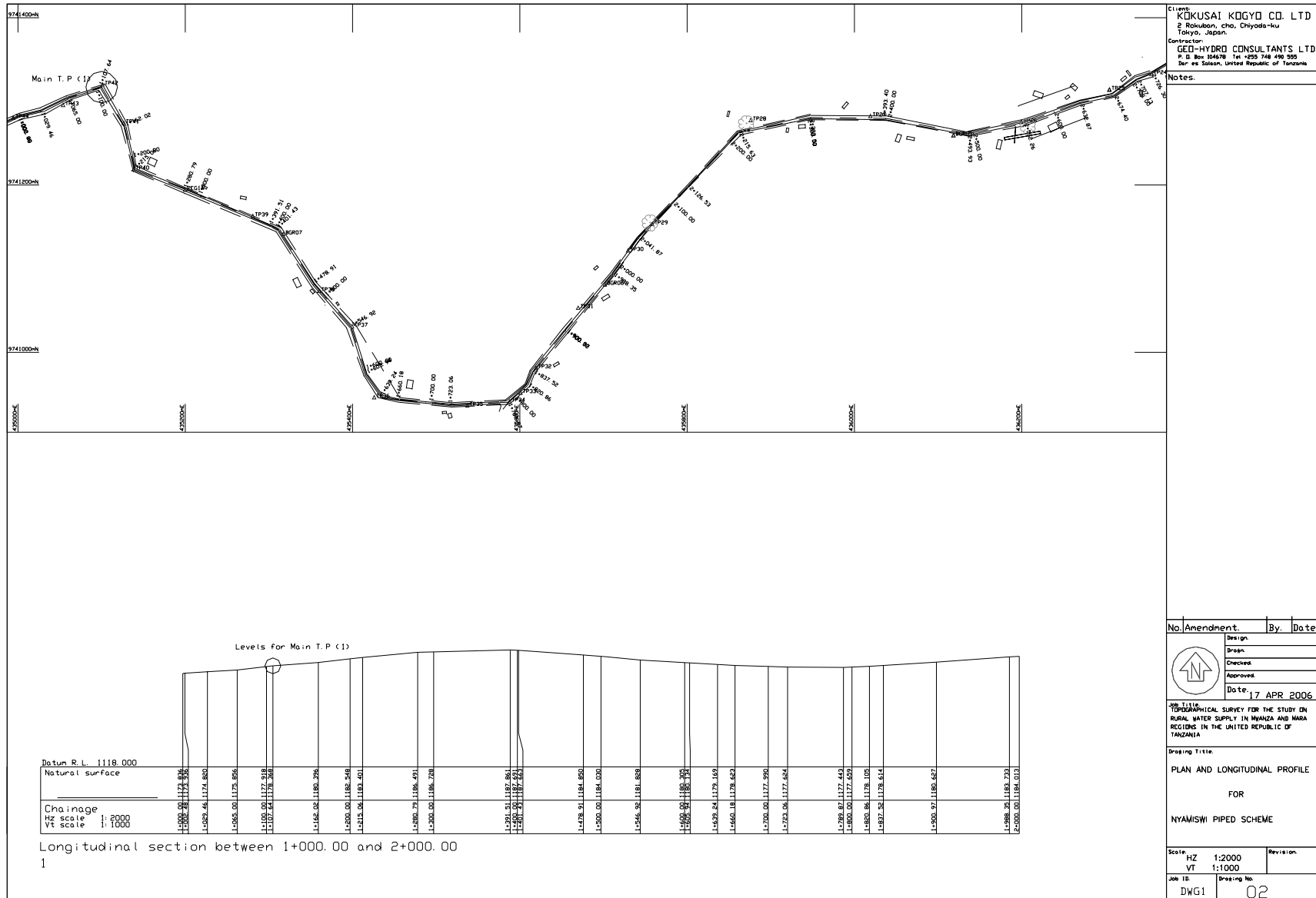
JOB TITLE:
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN HWANZA AND MARA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title:
 PLAN AND LONGITUDINAL PROFILE
 FOR
 SARAGANA SCHEME

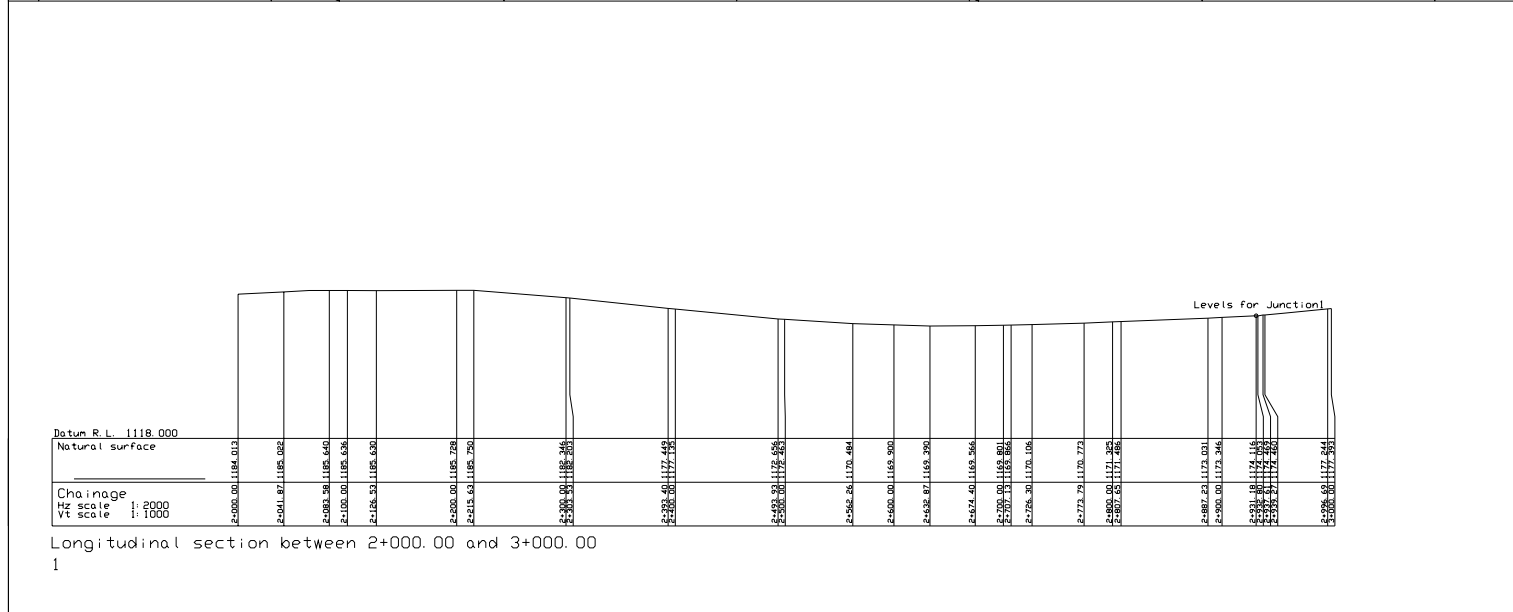
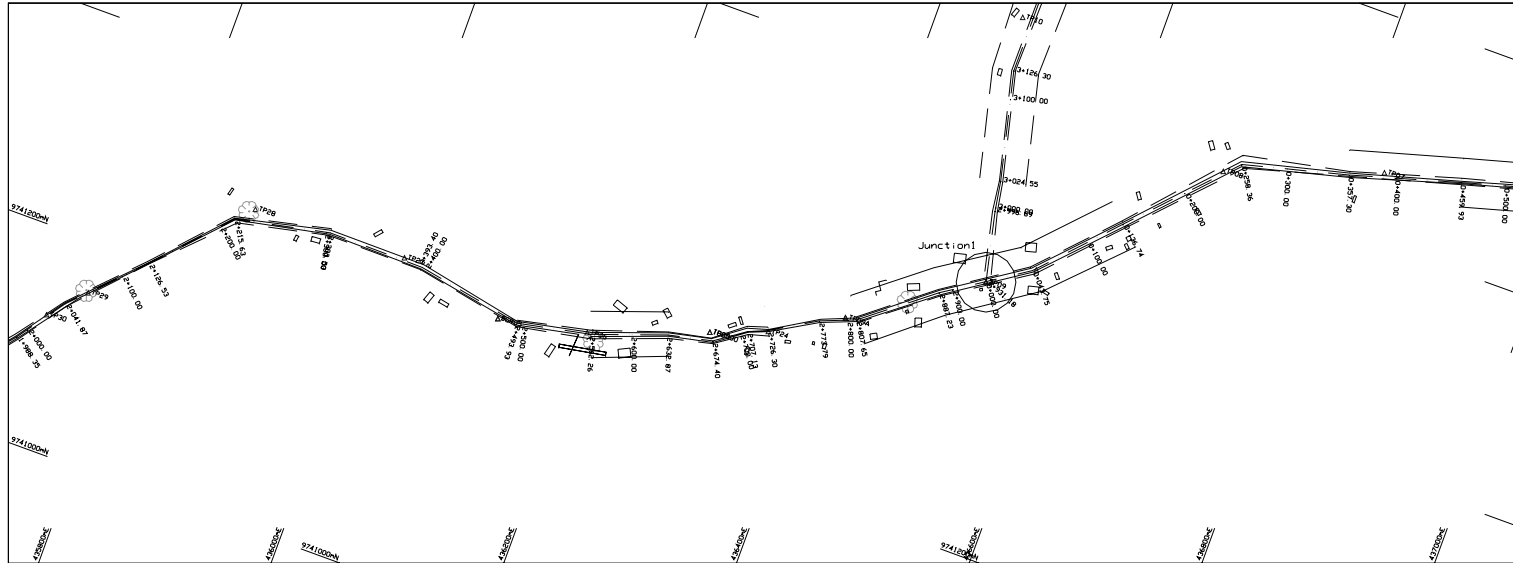
Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No
SRN	1

Survey Drawings Nyamiswi 1



Survey Drawings Nyamiswi 2



Client: KOKUSAI KOGYO CO. LTD
2-1-1 Rokkakubo, Chuo, Chiyoda-ku Tokyo, Japan.

Contractor: GED-HYDRO CONSULTANTS LTD
P. O. Box 104678 Tel: +255 748 490 325
Dar es Salaam, United Republic of Tanzania

Notes:

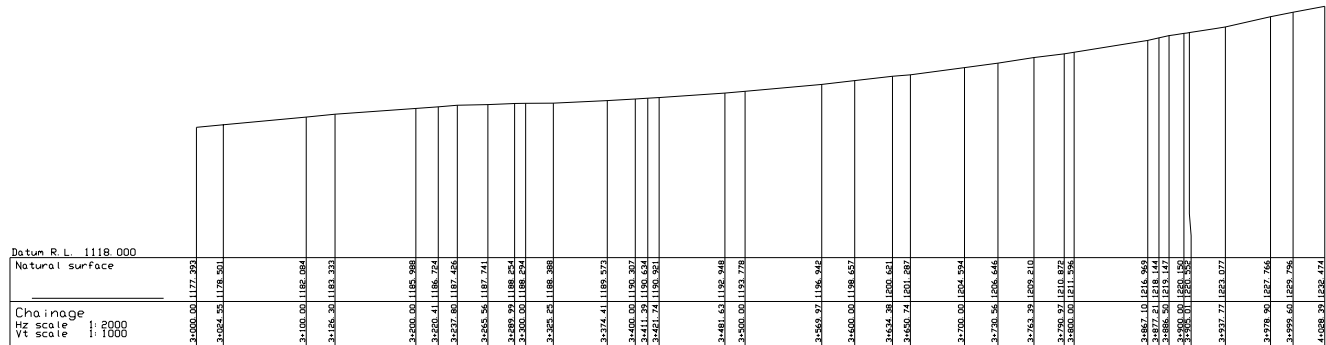
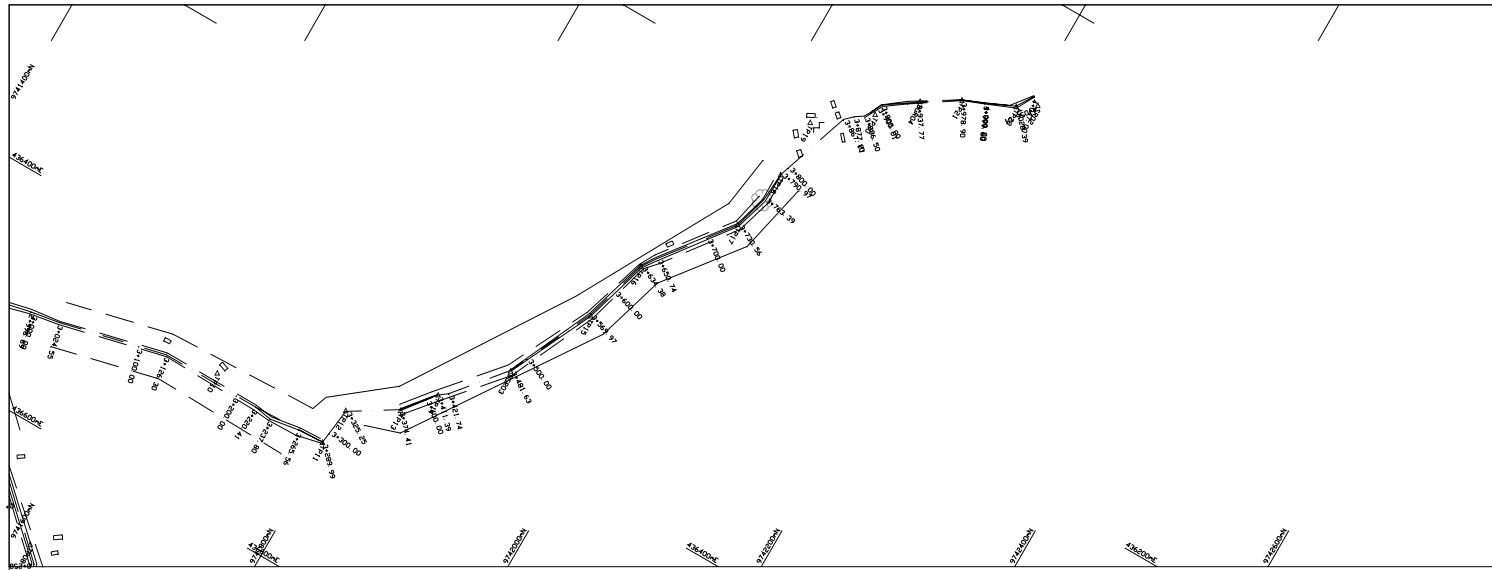
No.	Amendment	By	Date
	Design		
	Draft		
	Checked		
	Approved		
	Date		17 APR 2006

Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR NYAMISWI PIPED SCHEME

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No.
DWG1	03



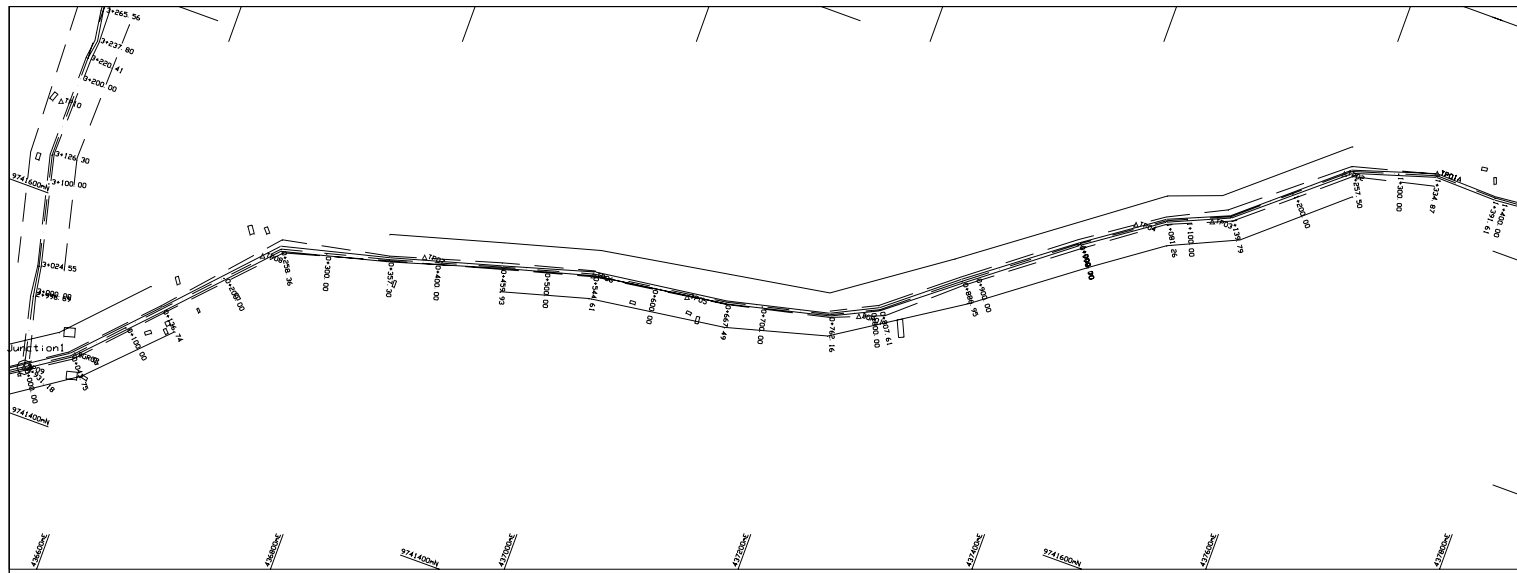
Longitudinal section between 3+000.00 and 4+028.39
1

Client: KOKUSAI KOGYO CO. LTD
2 Rakuwan, cho, Chiyoda-ku
Tokyo, Japan.
Contractor: GEO-HYDRD CONSULTANTS LTD
P. O. Box 124678, Tel: +255 748 490 955
Dar es Salaam, United Republic of Tanzania

Notes:

No. Amendment	By	Date
	Design	
	Drawn	
	Checked	
	Approved	
	Date	17 APR 2006
Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA		
Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR NYAMISWI PIPED SCHEME		
Scale	HZ 1:2000 VT 1:1000	Revision
Job ID	DWG1	Drawing No. 04





Levels for Junction

Datum R.L. 1141.000	917.1171	894.7111	871.1171	847.1171	823.1171	799.1171	775.1171	751.1171	727.1171	703.1171	679.1171	655.1171	631.1171	607.1171	583.1171	559.1171	535.1171	511.1171	487.1171	463.1171	439.1171	415.1171	391.1171	367.1171	343.1171	319.1171	295.1171	271.1171	247.1171	223.1171	199.1171	175.1171	151.1171	127.1171	103.1171	79.1171	55.1171	31.1171	7.1171	17.1171	33.1171	49.1171	65.1171	81.1171	97.1171	113.1171	129.1171	145.1171	161.1171	177.1171	193.1171	209.1171	225.1171	241.1171	257.1171	273.1171	289.1171	305.1171	321.1171	337.1171	353.1171	369.1171	385.1171	401.1171	417.1171	433.1171	449.1171	465.1171	481.1171	497.1171	513.1171	529.1171	545.1171	561.1171	577.1171	593.1171	609.1171	625.1171	641.1171	657.1171	673.1171	689.1171	705.1171	721.1171	737.1171	753.1171	769.1171	785.1171	801.1171	817.1171	833.1171	849.1171	865.1171	881.1171	897.1171	913.1171	929.1171	945.1171	961.1171	977.1171	993.1171	1009.1171	1025.1171	1041.1171	1057.1171	1073.1171	1089.1171	1105.1171	1121.1171	1137.1171	1153.1171	1169.1171	1185.1171	1201.1171	1217.1171	1233.1171	1249.1171	1265.1171	1281.1171	1297.1171	1313.1171	1329.1171	1345.1171	1361.1171	1377.1171	1393.1171	1409.1171	1425.1171	1441.1171	1457.1171	1473.1171	1489.1171	1505.1171	1521.1171	1537.1171	1553.1171	1569.1171	1585.1171	1601.1171	1617.1171	1633.1171	1649.1171	1665.1171	1681.1171	1697.1171	1713.1171	1729.1171	1745.1171	1761.1171	1777.1171	1793.1171	1809.1171	1825.1171	1841.1171	1857.1171	1873.1171	1889.1171	1905.1171	1921.1171	1937.1171	1953.1171	1969.1171	1985.1171	2001.1171	2017.1171	2033.1171	2049.1171	2065.1171	2081.1171	2097.1171	2113.1171	2129.1171	2145.1171	2161.1171	2177.1171	2193.1171	2209.1171	2225.1171	2241.1171	2257.1171	2273.1171	2289.1171	2305.1171	2321.1171	2337.1171	2353.1171	2369.1171	2385.1171	2401.1171	2417.1171	2433.1171	2449.1171	2465.1171	2481.1171	2497.1171	2513.1171	2529.1171	2545.1171	2561.1171	2577.1171	2593.1171	2609.1171	2625.1171	2641.1171	2657.1171	2673.1171	2689.1171	2705.1171	2721.1171	2737.1171	2753.1171	2769.1171	2785.1171	2801.1171	2817.1171	2833.1171	2849.1171	2865.1171	2881.1171	2897.1171	2913.1171	2929.1171	2945.1171	2961.1171	2977.1171	2993.1171	3009.1171	3025.1171	3041.1171	3057.1171	3073.1171	3089.1171	3105.1171	3121.1171	3137.1171	3153.1171	3169.1171	3185.1171	3201.1171	3217.1171	3233.1171	3249.1171	3265.1171	3281.1171	3297.1171	3313.1171	3329.1171	3345.1171	3361.1171	3377.1171	3393.1171	3409.1171	3425.1171	3441.1171	3457.1171	3473.1171	3489.1171	3505.1171	3521.1171	3537.1171	3553.1171	3569.1171	3585.1171	3601.1171	3617.1171	3633.1171	3649.1171	3665.1171	3681.1171	3697.1171	3713.1171	3729.1171	3745.1171	3761.1171	3777.1171	3793.1171	3809.1171	3825.1171	3841.1171	3857.1171	3873.1171	3889.1171	3905.1171	3921.1171	3937.1171	3953.1171	3969.1171	3985.1171	4001.1171	4017.1171	4033.1171	4049.1171	4065.1171	4081.1171	4097.1171	4113.1171	4129.1171	4145.1171	4161.1171	4177.1171	4193.1171	4209.1171	4225.1171	4241.1171	4257.1171	4273.1171	4289.1171	4305.1171	4321.1171	4337.1171	4353.1171	4369.1171	4385.1171	4401.1171	4417.1171	4433.1171	4449.1171	4465.1171	4481.1171	4497.1171	4513.1171	4529.1171	4545.1171	4561.1171	4577.1171	4593.1171	4609.1171	4625.1171	4641.1171	4657.1171	4673.1171	4689.1171	4705.1171	4721.1171	4737.1171	4753.1171	4769.1171	4785.1171	4801.1171	4817.1171	4833.1171	4849.1171	4865.1171	4881.1171	4897.1171	4913.1171	4929.1171	4945.1171	4961.1171	4977.1171	4993.1171	5009.1171	5025.1171	5041.1171	5057.1171	5073.1171	5089.1171	5105.1171	5121.1171	5137.1171	5153.1171	5169.1171	5185.1171	5201.1171	5217.1171	5233.1171	5249.1171	5265.1171	5281.1171	5297.1171	5313.1171	5329.1171	5345.1171	5361.1171	5377.1171	5393.1171	5409.1171	5425.1171	5441.1171	5457.1171	5473.1171	5489.1171	5505.1171	5521.1171	5537.1171	5553.1171	5569.1171	5585.1171	5601.1171	5617.1171	5633.1171	5649.1171	5665.1171	5681.1171	5697.1171	5713.1171	5729.1171	5745.1171	5761.1171	5777.1171	5793.1171	5809.1171	5825.1171	5841.1171	5857.1171	5873.1171	5889.1171	5905.1171	5921.1171	5937.1171	5953.1171	5969.1171	5985.1171	6001.1171	6017.1171	6033.1171	6049.1171	6065.1171	6081.1171	6097.1171	6113.1171	6129.1171	6145.1171	6161.1171	6177.1171	6193.1171	6209.1171	6225.1171	6241.1171	6257.1171	6273.1171	6289.1171	6305.1171	6321.1171	6337.1171	6353.1171	6369.1171	6385.1171	6401.1171	6417.1171	6433.1171	6449.1171	6465.1171	6481.1171	6497.1171	6513.1171	6529.1171	6545.1171	6561.1171	6577.1171	6593.1171	6609.1171	6625.1171	6641.1171	6657.1171	6673.1171	6689.1171	6705.1171	6721.1171	6737.1171	6753.1171	6769.1171	6785.1171	6801.1171	6817.1171	6833.1171	6849.1171	6865.1171	6881.1171	6897.1171	6913.1171	6929.1171	6945.1171	6961.1171	6977.1171	6993.1171	7009.1171	7025.1171	7041.1171	7057.1171	7073.1171	7089.1171	7105.1171	7121.1171	7137.1171	7153.1171	7169.1171	7185.1171	7201.1171	7217.1171	7233.1171	7249.1171	7265.1171	7281.1171	7297.1171	7313.1171	7329.1171	7345.1171	7361.1171	7377.1171	7393.1171	7409.1171	7425.1171	7441.1171	7457.1171	7473.1171	7489.1171	7505.1171	7521.1171	7537.1171	755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Longitudinal section between 0+000.00 and 1+000.00

Client: KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
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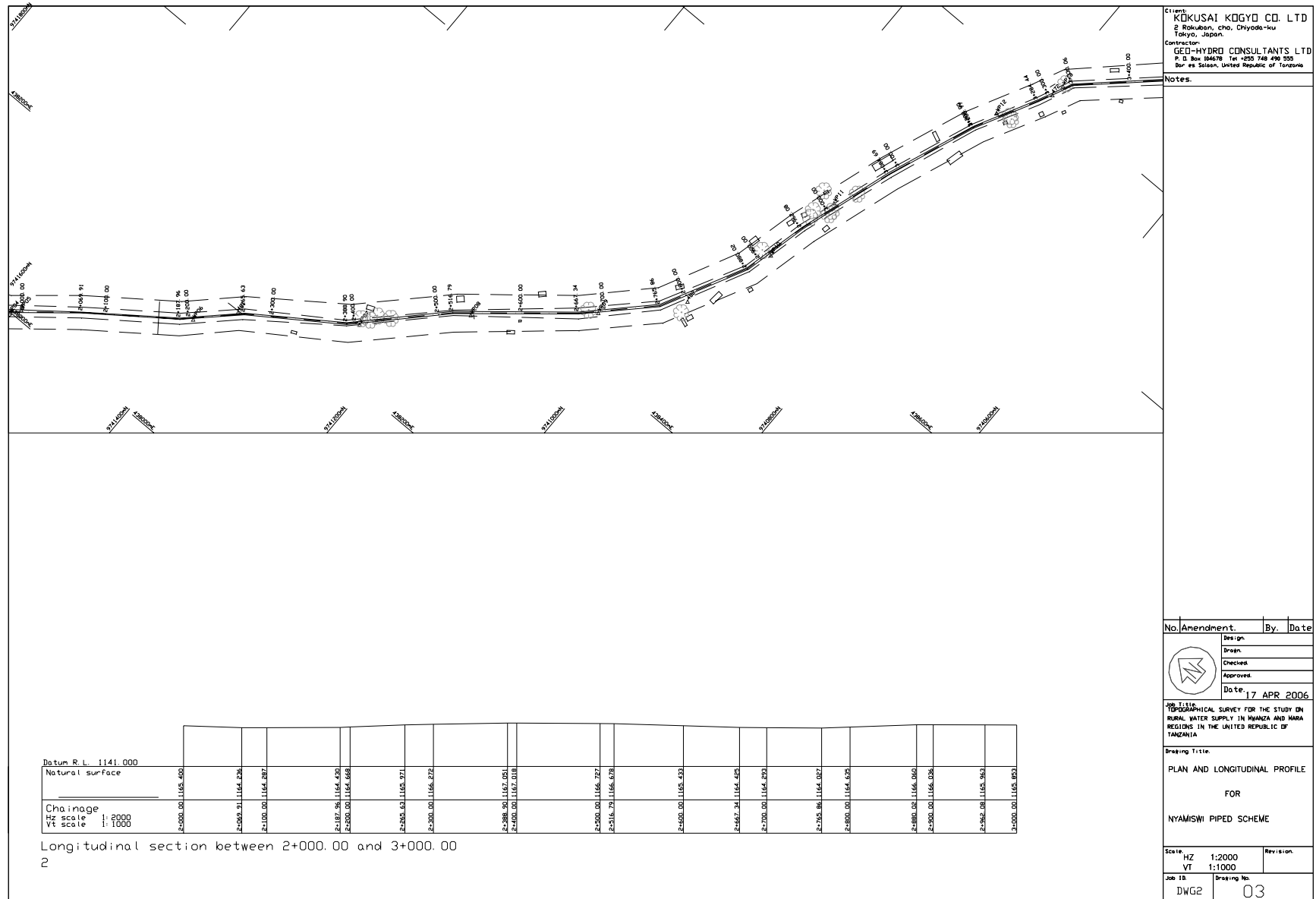
Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date:		17 APR 2006

Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR NYAMISWI PIPED SCHEME

Scale: HZ 1:2000	Revision:
VT 1:1000	
Job ID: DWG2	Drawing No: 01



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Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date	17 APR 2006	

JOB TITLE:
**TOPOGRAFICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN MWANZA AND MARA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA**

Drawing Title:
**PLAN AND LONGITUDINAL PROFILE
 FOR
 NYAMISWI PIPED SCHEME**

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No.
DWG2	03