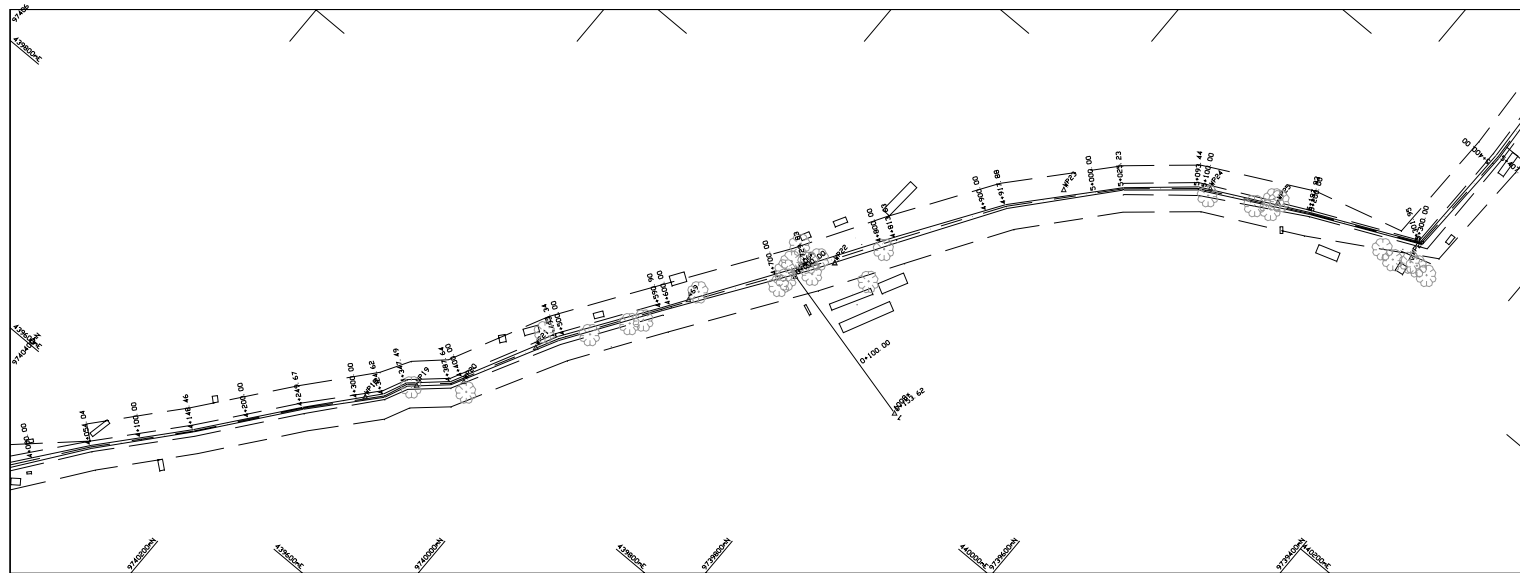


Survey Drawings Nyamiswi 9



Stationing	4+000.00	4+050.00	4+100.00	4+150.00	4+200.00	4+250.00	4+300.00	4+350.00	4+400.00	4+450.00	4+500.00	4+550.00	4+600.00	4+650.00	4+700.00	4+750.00	4+800.00	4+850.00	4+900.00	4+950.00	5+000.00	
Natural surface	1163.292	1163.314	1163.352	1163.802	1165.666	1167.461	1168.772	1170.502	1171.371	1172.699	1173.089	1173.803	1174.084	1174.009	1174.414	1174.412	1174.261	1174.501	1174.668	1174.999		

Longitudinal section between 4+000.00 and 5+000.00
2

Client: KOKUSAI KOGYO CO. LTD
2 Rokuban, cho, Chiyoda-ku
Tokyo, JAPAN
Contractor: GEO-HYDRO CONSULTANTS LTD
P. O. Box 104878 Tel: +255 748 490 295
Dar es Salaam, United Republic of Tanzania

Notes:

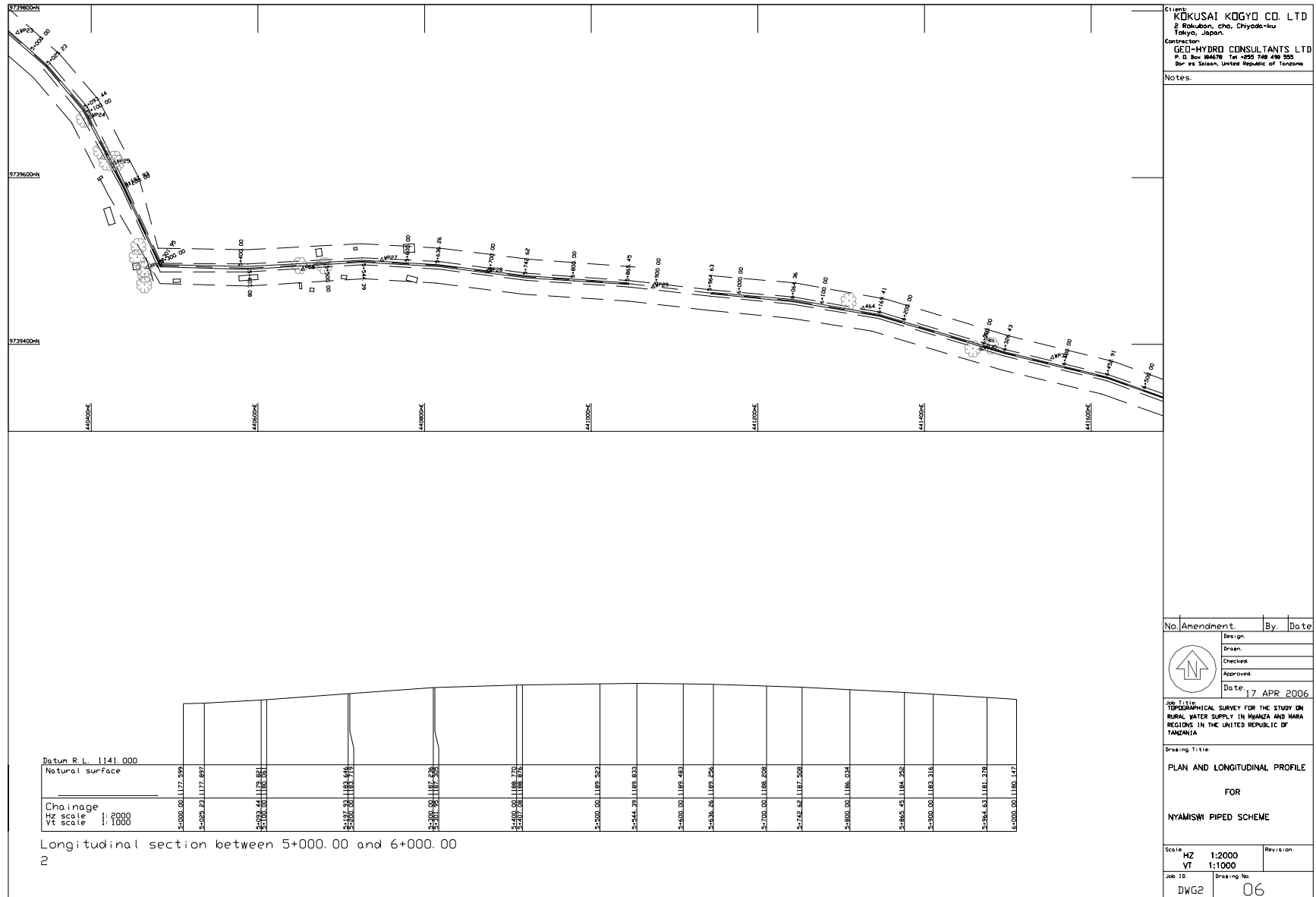
No.	Amendment	By	Date

Design
 Checked
 Approved
 Date: 17 APR 2006

Job Title:
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN NYANZA AND NABA
 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:	05



Client: **KOKUSAI KOGYO CO. LTD**
2 Rokuban, cho, Chiyoda-Ku
Tokyo, Japan.
Contractor: **GEO-HYDRO CONSULTANTS LTD**
P. O. Box 84678 Tel: +255 748 499 555
Dar es Salaam, United Republic of Tanzania

Notes:

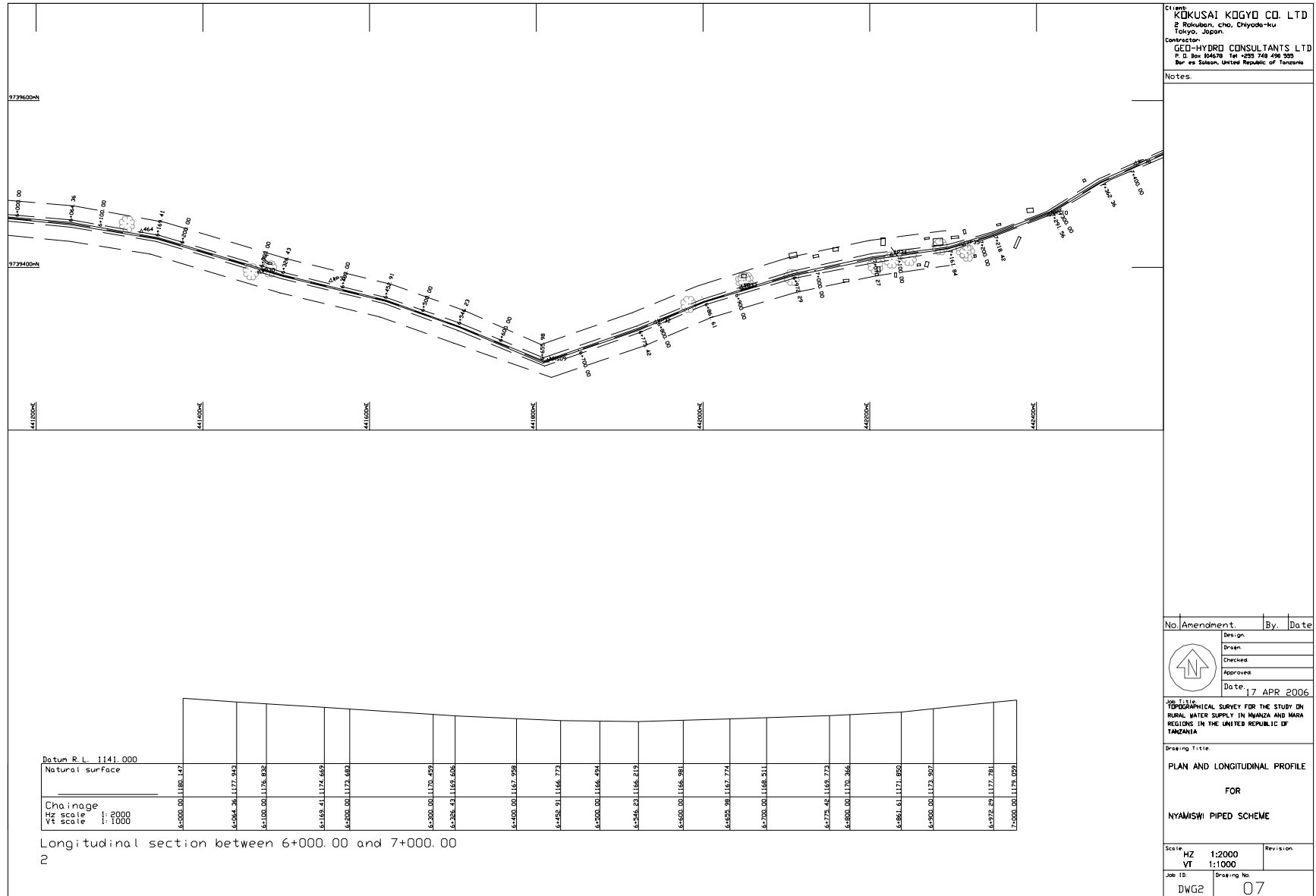
No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		17 APR 2006

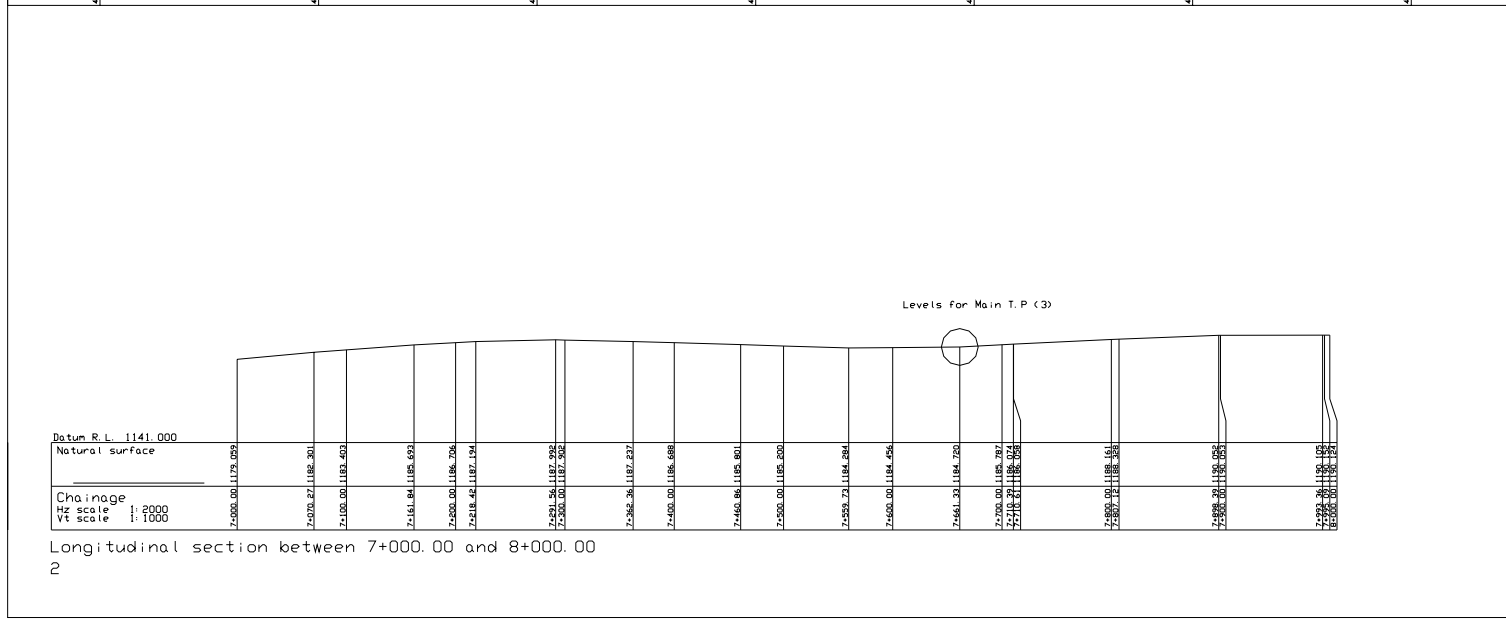
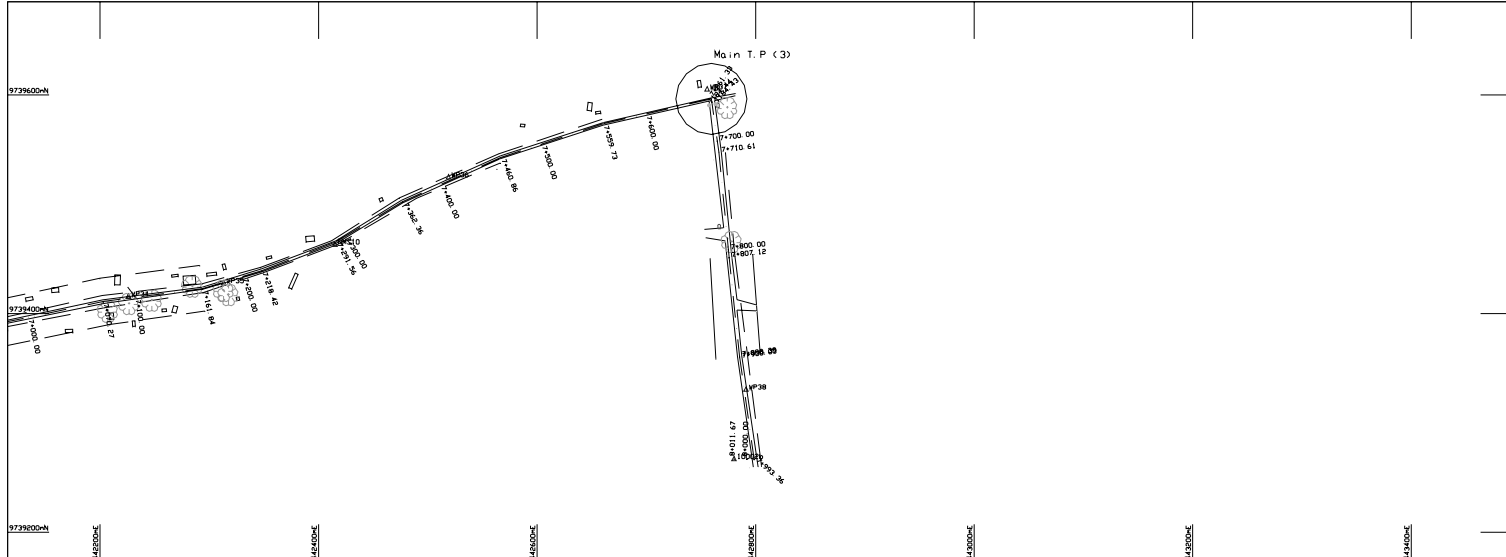
Job Title: **TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN WAKKA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA**

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

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID: DWG2 Drawing No: 06





Client:
KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan
 Contractor:
GEO-HYDRO CONSULTANTS LTD
 P. O. Box 104278 Tel: +255 740 400 320
 Dar es Salaam, United Republic of Tanzania

Notes:

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

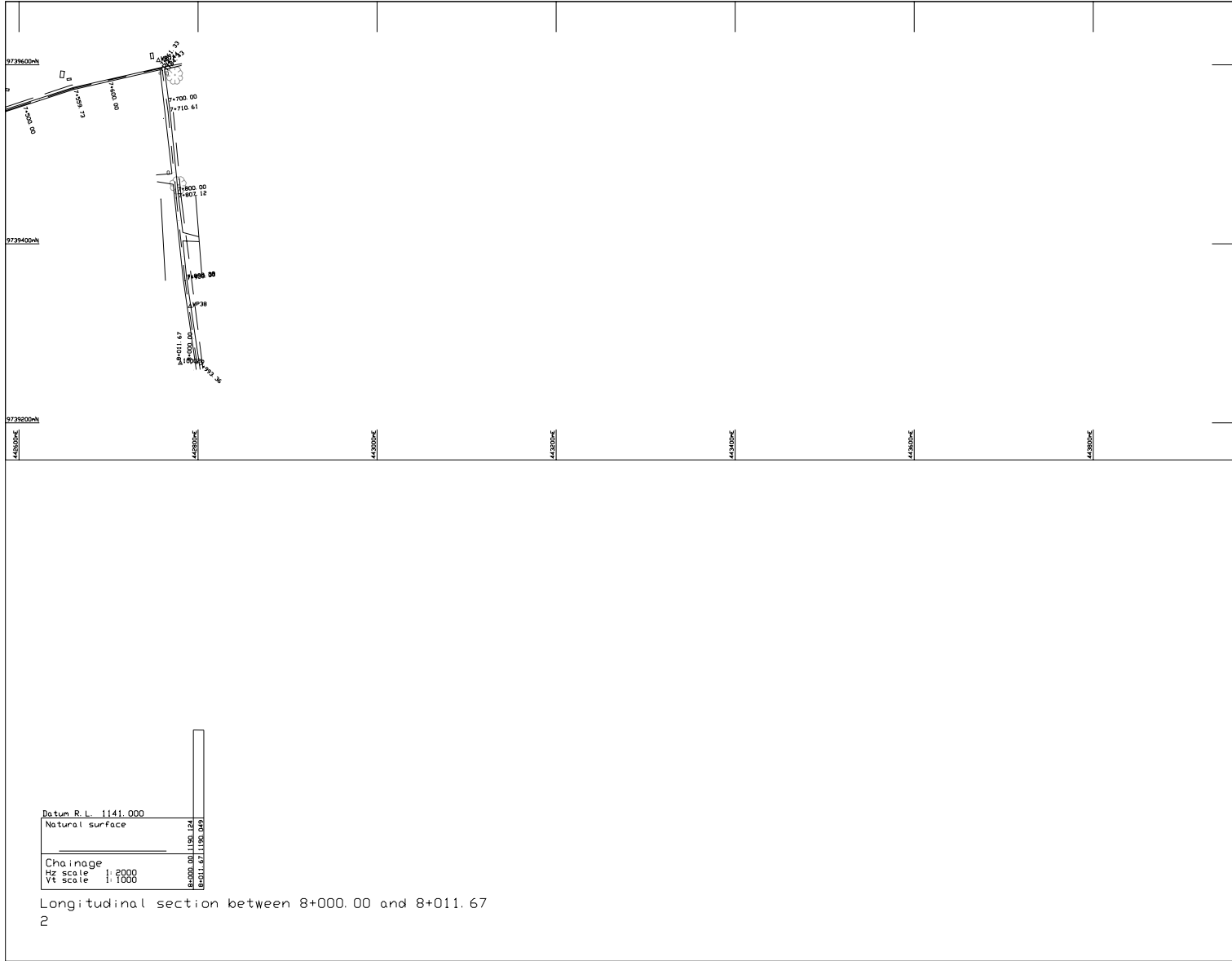
Job Title:
**TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN MWANZA AND MARA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA**

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

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No.
DWG2	08

6-57



Datum R.L.	1141.000
Natural surface	166.0611, 167.7608
Change	
Hx scale	1:2000
Vt scale	1:1000

Longitudinal section between 8+000.00 and 8+011.67
2

Client:
KOKUSAI KOGYO CO. LTD
2 Rokuban, cho, 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

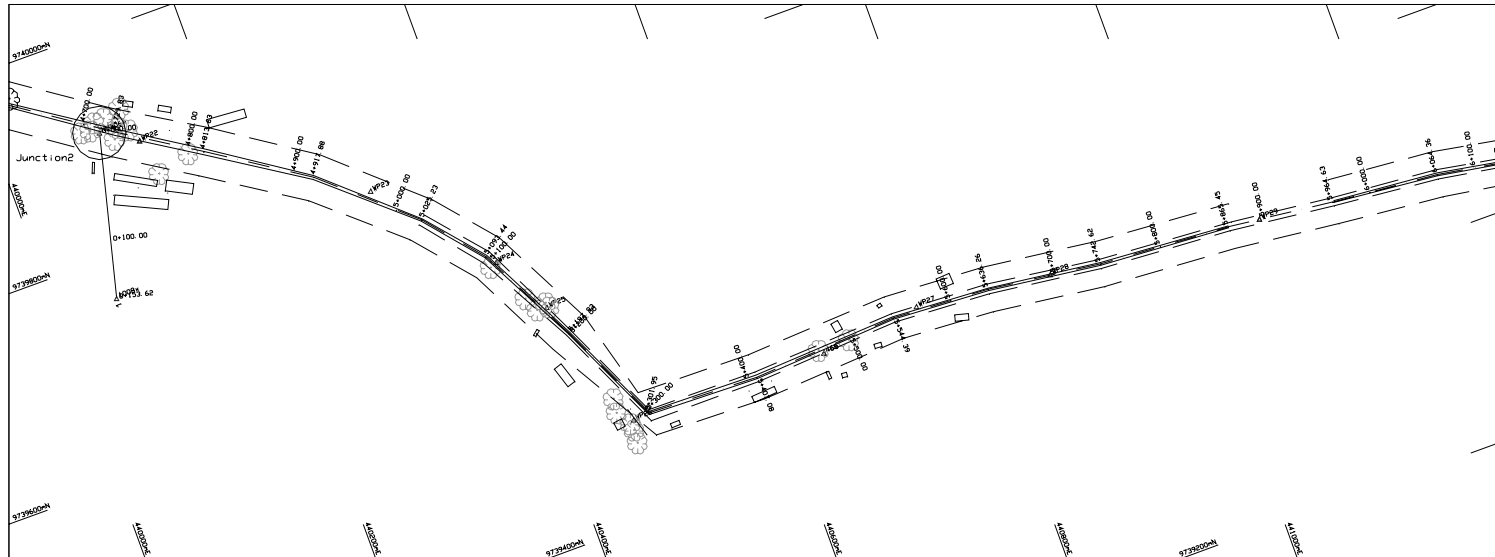
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No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date	17 APR 2006	

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
		09



Level of Junction2

	○		
Datum R.L. 1159.000			
Natural surface			
Chainage	0+000.00	0+1179.371	0+153.62
HZ scale	1:2000	1:1000	1:1000
VT scale	1:1000	1:1000	1:1000

Longitudinal section between 0+000.00 and 0+153.62
3

Client: **KOKUSAI KOGYO CO. LTD**
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: **GEI-HYDRO CONSULTANTS LTD**
 P. O. Box 884678 Tel: +255 748 490 555
 Dar es Salaam, United Republic of Tanzania

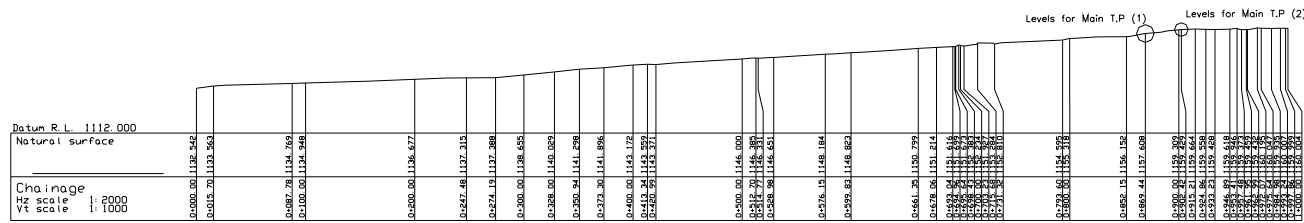
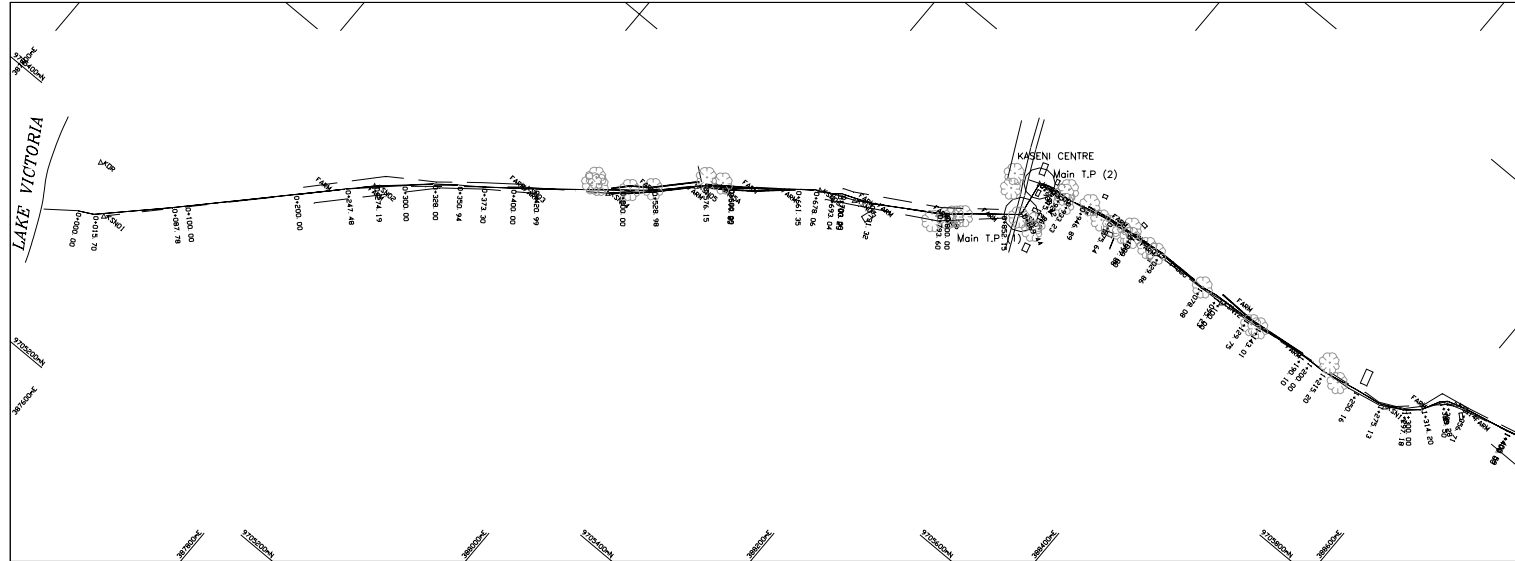
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No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		17 APR 2006

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:	DWG3	Drawing No. 01



Longitudinal section between 0+000.00 and 1+000.00
1

Client:
KOKUSAI KOGYO CO. LTD
2 Rokuban, cho, Chiyoda-ku
Tokyo, Japan.
Contractor:
GED-HYDRO CONSULTANTS LTD
P. O. Box 184/18 Tel: 4223 748 490 350
Dar es Salaam, United Republic of Tanzania

Notes:

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

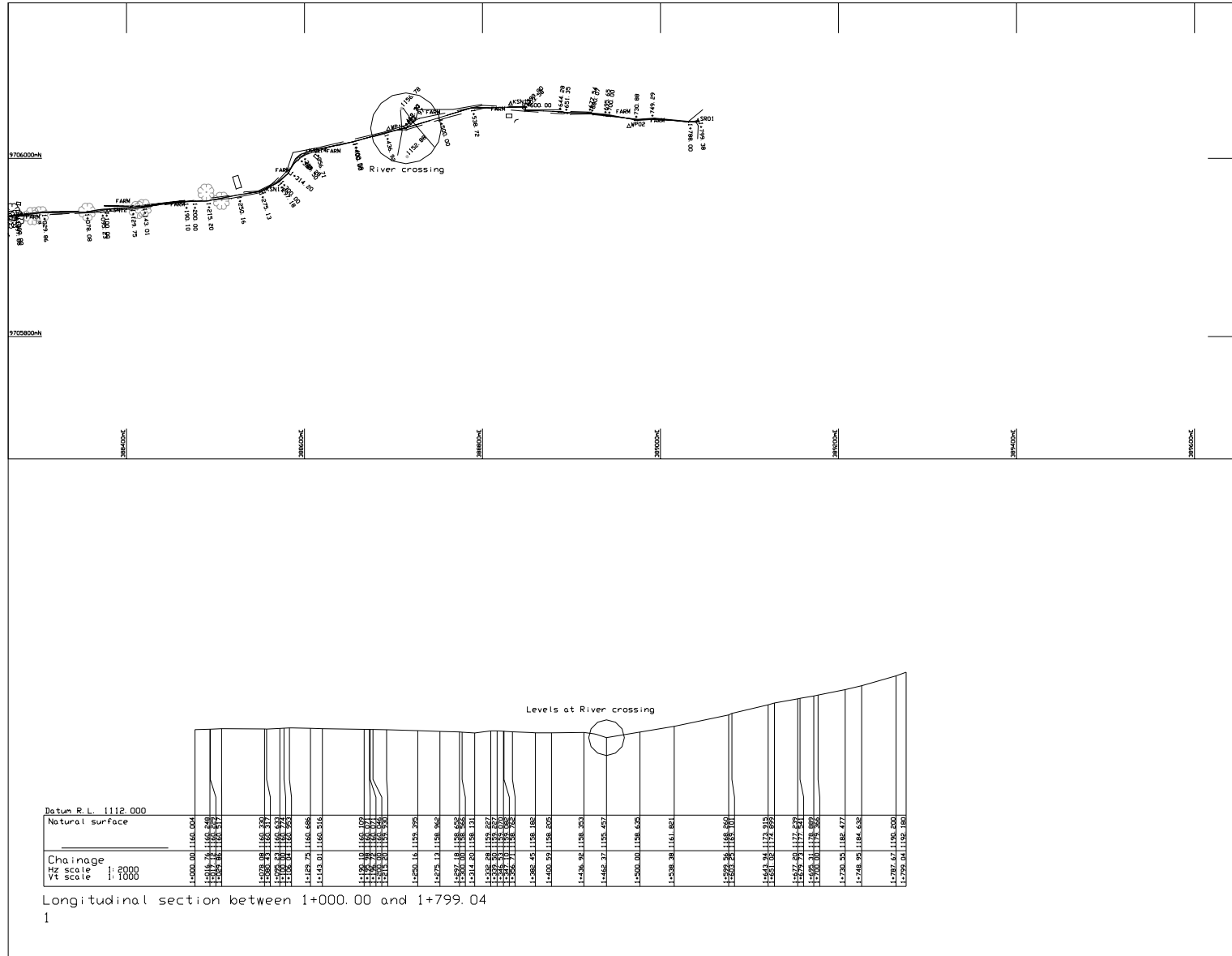
Job Title:
TOPOGRAPHICAL SURVEY FOR THE STUDY IN
RURAL WATER SUPPLY IN MWANZA AND MARA
REGIONS IN THE UNITED REPUBLIC OF
TANZANIA

Drawing Title:
PLAN AND LONGITUDINAL PROFILE
FOR
KASENI PIPED SCHEMED

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No.
KS1	02

Survey Drawings Kaseni 1



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

Contractor: GED-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		13 APR 2006

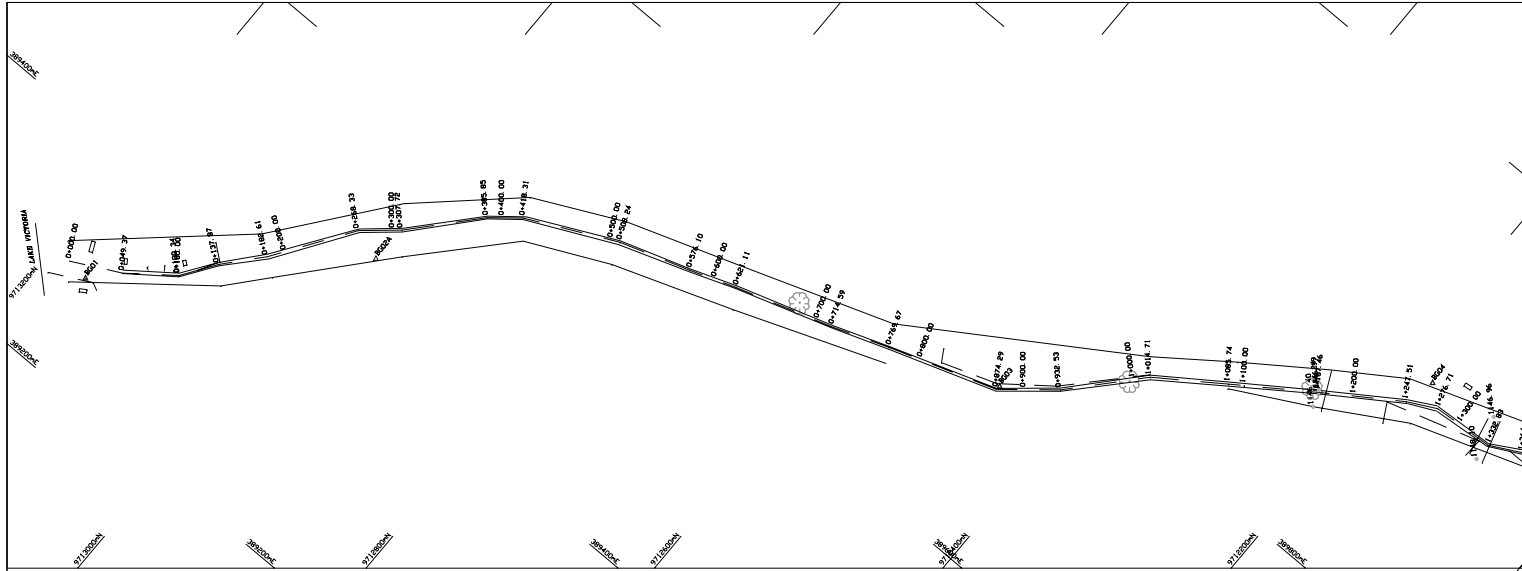
Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR KASENI PIPED SCHEMED

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No
KS1	02

Survey Drawings Kaseeni 2



Station R.L. 1121.000

Station	Natural surface	Proposed surface
0+000.00	1101.302	1101.302
0+050.00	1103.156	1103.156
0+100.00	1104.166	1104.166
0+150.00	1105.292	1105.292
0+200.00	1105.903	1105.903
0+250.00	1106.204	1106.204
0+300.00	1107.272	1107.272
0+350.00	1106.471	1106.471
0+400.00	1106.424	1106.424
0+450.00	1106.106	1106.106
0+500.00	1103.325	1103.325
0+550.00	1102.399	1102.399
0+600.00	1102.703	1102.703
0+650.00	1103.084	1103.084
0+700.00	1103.134	1103.134
0+750.00	1104.264	1104.264
0+800.00	1104.396	1104.396
0+850.00	1106.295	1106.295
0+900.00	1106.400	1106.400
0+950.00	1106.392	1106.392
1+000.00	1106.200	1106.200

Longitudinal section between 0+000.00 and 1+000.00

Client: KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan
 Contractor: GED-HYDRD CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 595
 Dar es Salaam, United Republic of Tanzania

Notes:

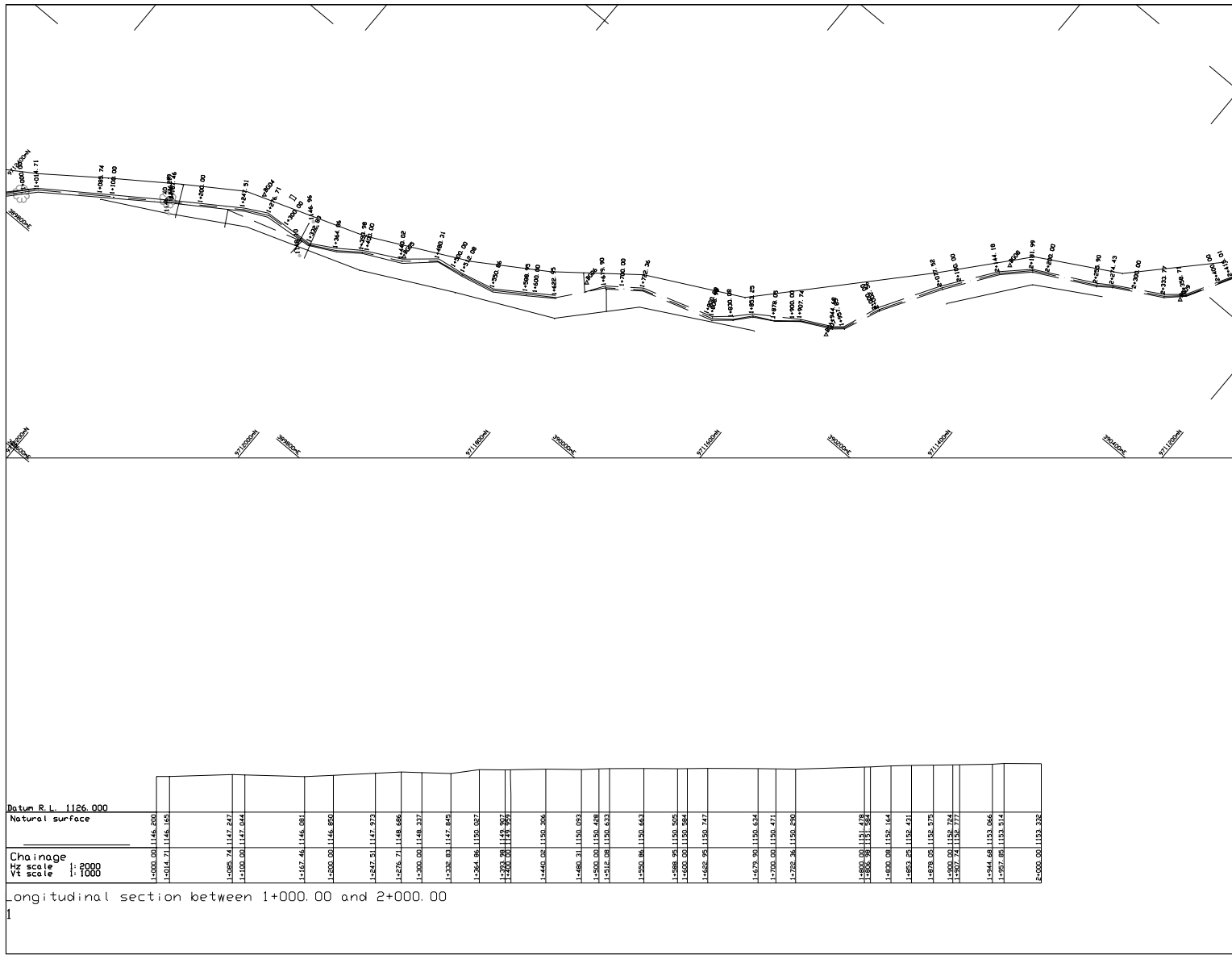
No.	Amendment.	By.	Date
	Design.		
	Drawn.		
	Checked.		
	Approved.		
	Date	23 APR 2006	

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 BULIGI FINAL

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

Survey Drawings Buligi 1



Client: KOKUSAI KOGYO CO. LTD
2 Rokusai, cho, Chiyoda-ku
Tokyo, JAPAN.
Contractor: GED-HYDRO CONSULTANTS LTD
P. O. Box 046478 Tel: +255 748 490 525
Dar es Salaam, United Republic of Tanzania

Notes:

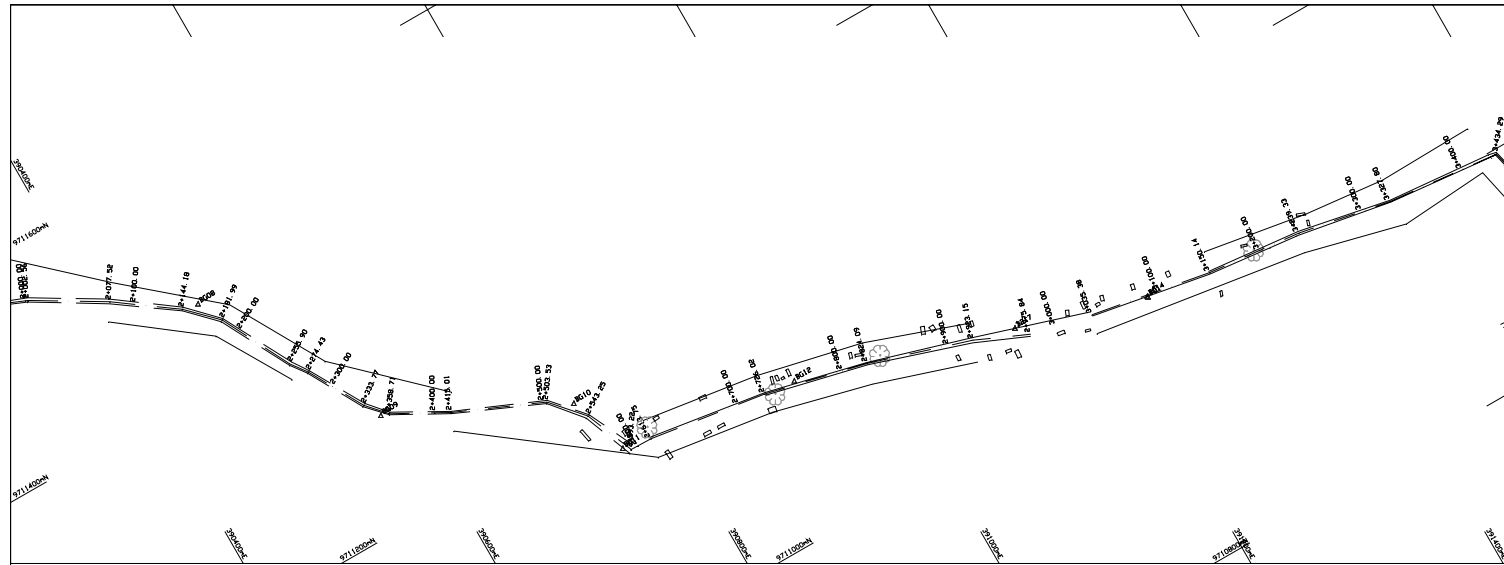
No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		23 APR 2006

255-1116
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
BULGI FINAL

Scale	HZ 1:2000	Revision	
	VT 1:1000		
Job No.	BL1	Drawing No.	02

Survey Drawings Buligi 2



Stationing	2+000.00	2+025.00	2+050.00	2+075.00	2+100.00	2+125.00	2+150.00	2+175.00	2+200.00	2+225.00	2+250.00	2+275.00	2+300.00	2+325.00	2+350.00	2+375.00	2+400.00	2+425.00	2+450.00	2+475.00	2+500.00	
Natural surface	1133.382	1153.870	1154.154	1154.710	1155.189	1155.398	1155.798	1155.863	1156.156	1156.456	1156.867	1157.535	1157.777	1158.167	1158.281	1158.555	1158.555	1158.555	1158.555	1158.555	1158.555	1158.555

Longitudinal section between 2+000.00 and 3+000.00
 1

Client: **KOKUSAI KOGYO CO. LTD**
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: **GEO-HYDRO CONSULTANTS LTD**
 P. O. Box 18478 Tel: +255 748 491 350
 Dar es Salaam, United Republic of Tanzania

Notes:

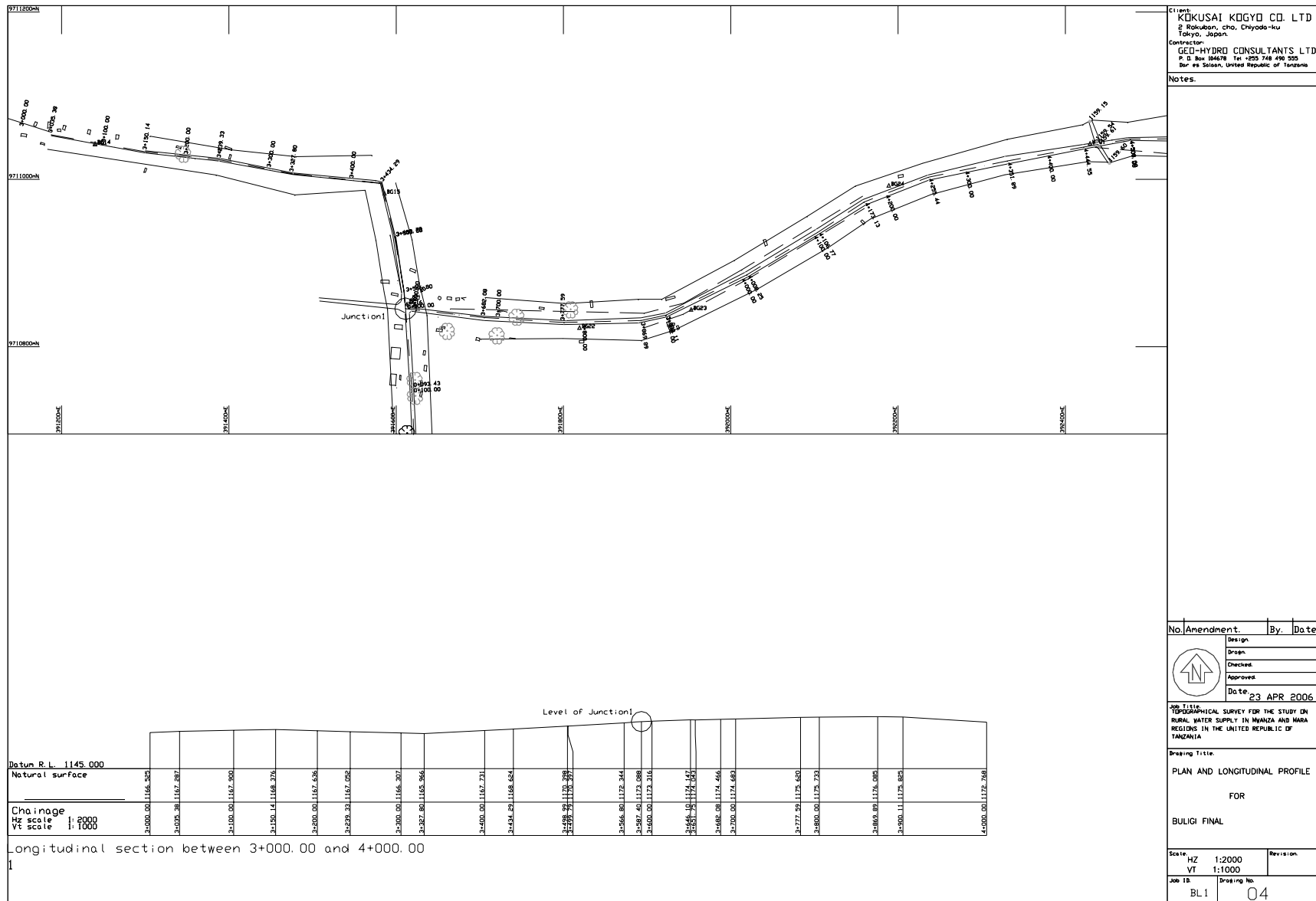
No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date	23 APR 2006	

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

Drawing Title:
PLAN AND LONGITUDINAL PROFILE
 FOR
BULIGI FINAL

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No.
BL1	03



Client:
KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor:
GEO-HYDRO CONSULTANTS LTD
 P O Box 18478 Tel: +255 748 490 350
 Dar es Salaam, United Republic of Tanzania

Notes:

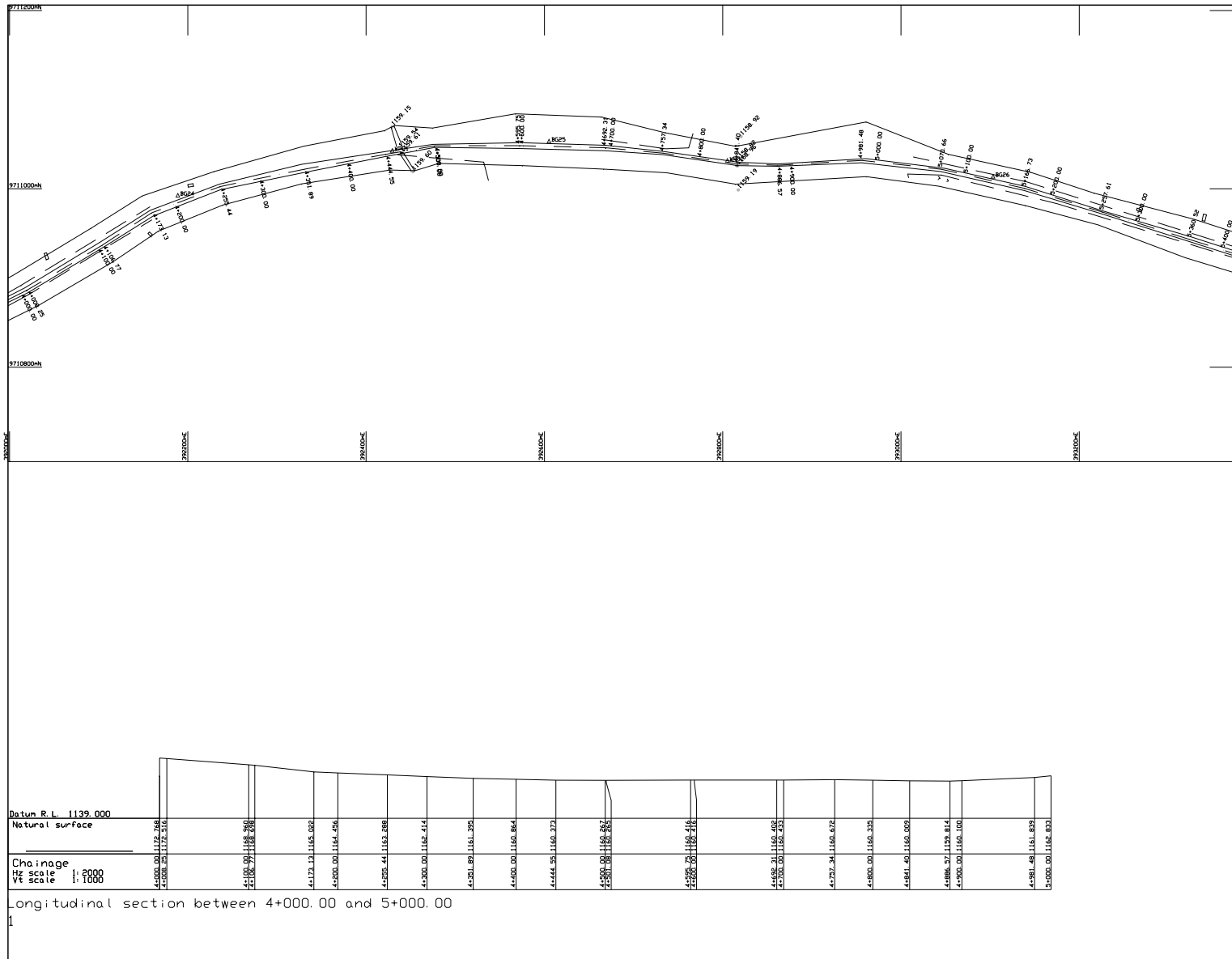
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	Design		
	Drawn		
	Checked		
	Approved		
	Date	23 APR 2006	

Job Title:
 TOPOGRAHICAL 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
BULIGI FINAL

Scale	Revision
HZ 1:2000	
VT 1:1000	
Job ID: BL1	Drawing No: 04

Survey Drawings Buligi 4



Client: KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GEO-HYDRD CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 496 995
 Dar es Salaam, United Republic of Tanzania

Notes:

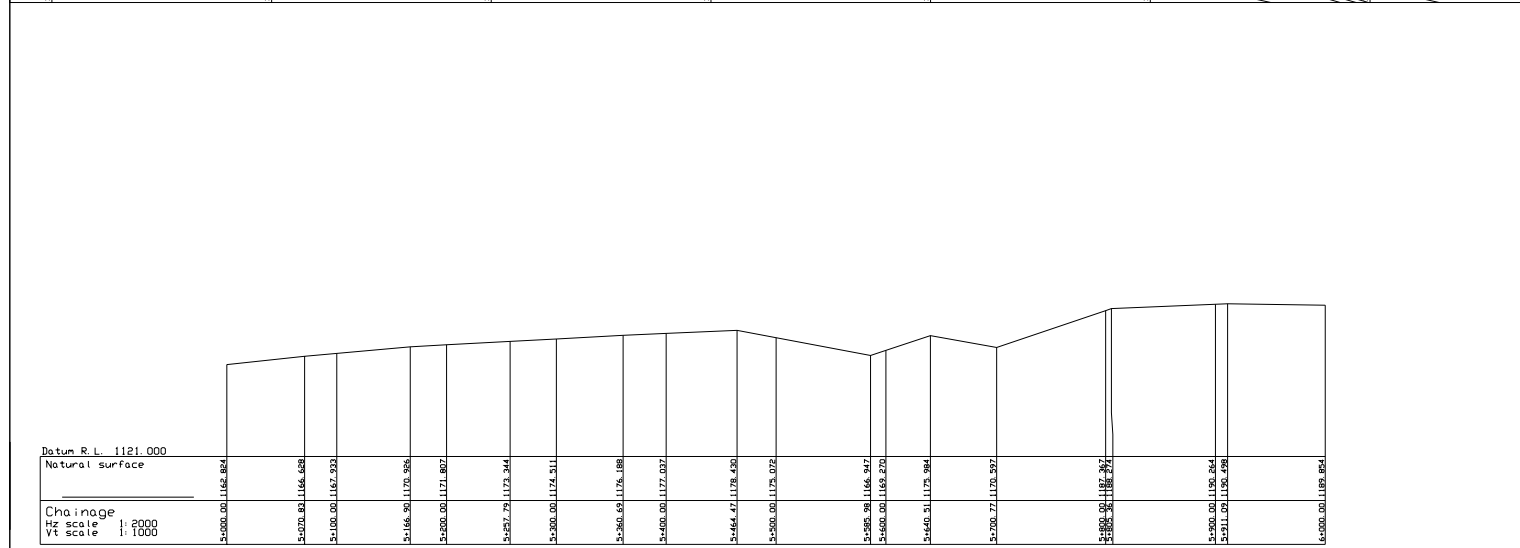
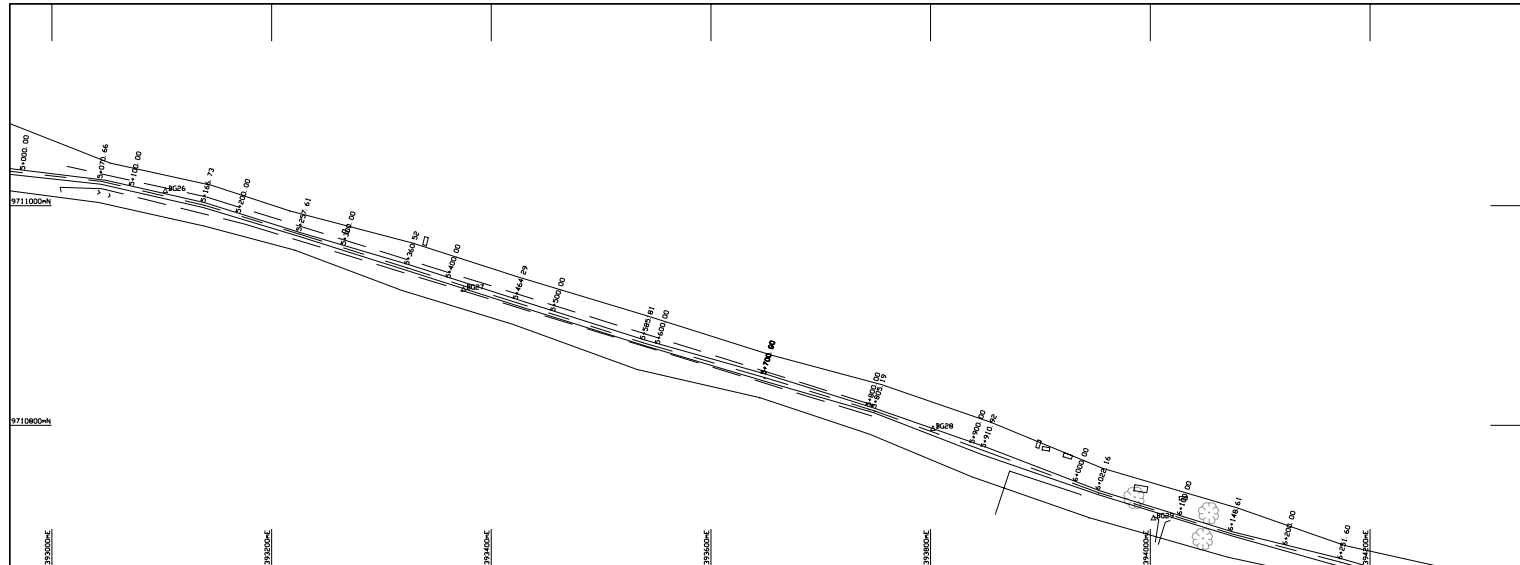
No.	Amendment.	By.	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date	23 APR 2006	

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 BULIGI FINAL

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No.
BL1	05



Datum R. L. 1121.000
 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 Rakuwan, cho, Chiyoda-ku
 Saityo, Japan
 Contractor
 GED-HYDRO CONSULTANTS LTD
 P. O. Box 104378 Tel: +255 746 490 335
 Dar es Salaam, United Republic of Tanzania

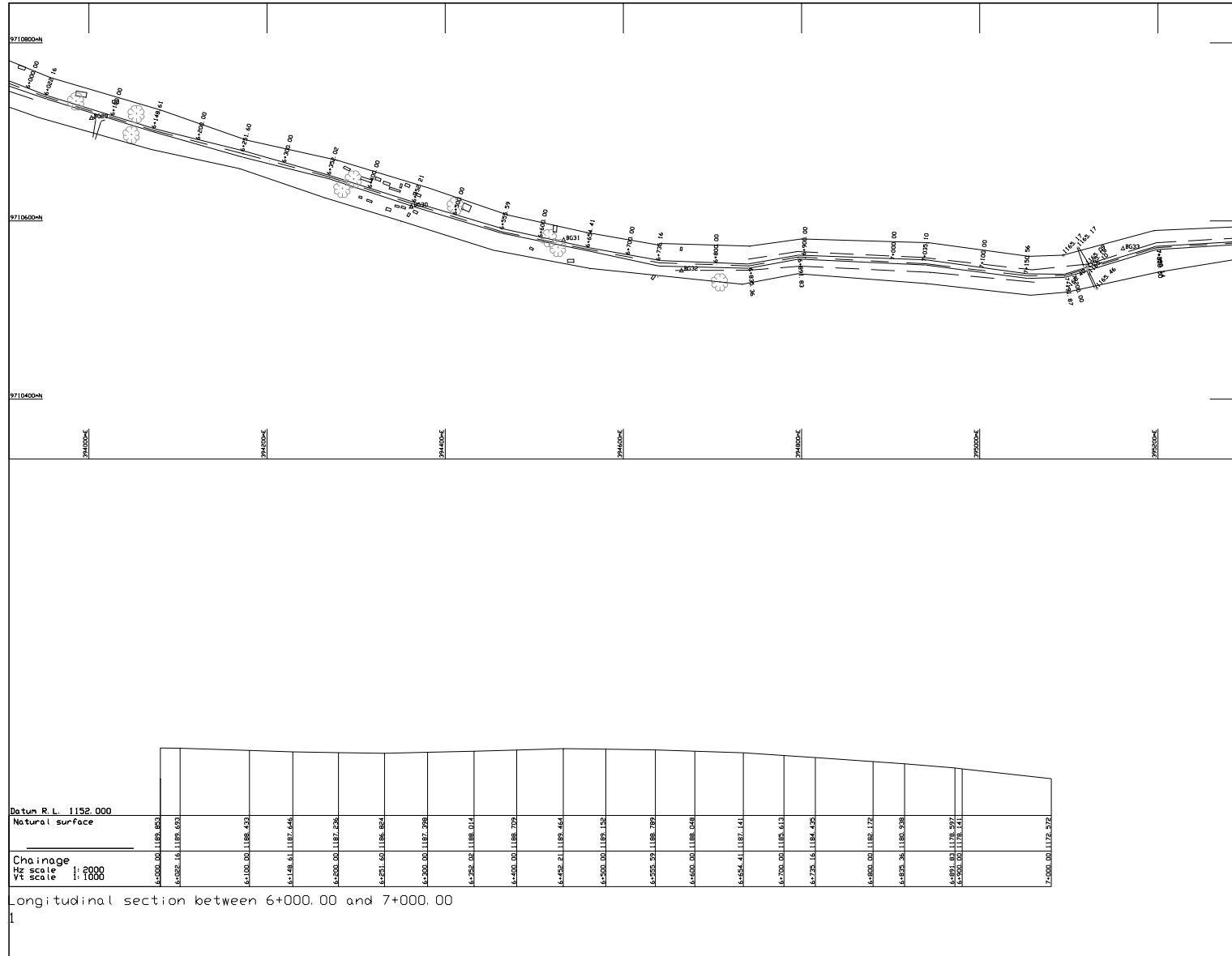
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No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		23 APR 2006

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

Drawing Title
 PLAN AND LONGITUDINAL PROFILE
 FOR
 BULIGI FINAL

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



Client
KOKUSAI KOGYO CO. LTD
 2-2-1, Bokujoan, cho, Chiyoda-ku
 Tokyo, JAPAN

Contractor
GEO-HYDR CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 995
 Dar es Salaam, United Republic of Tanzania

Notes:

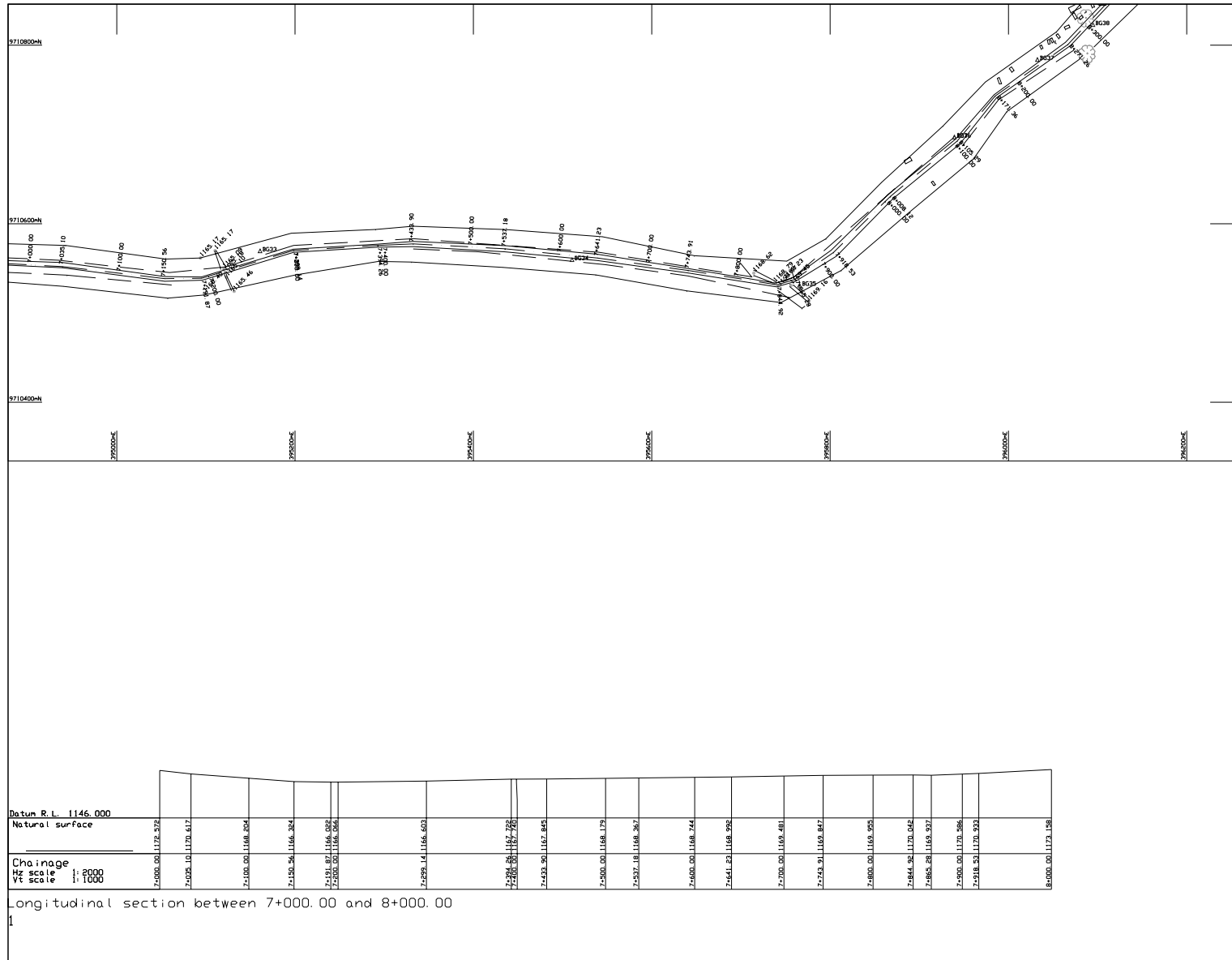
No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date	23 APR 2006	

PROJECT
 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
BULIGI FINAL

Scale:	HZ 1:2000	Revision
	VT 1:1000	

Job ID	Drawing No.
BL 1	07



Client: KOKUSAI KOGYO CO. LTD
 2 Rinku-shi, c/o, Chiyoda-ku
 Tokyo, Japan

Contractor: GEO-HYDR CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 305
 Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		23 APR 2006

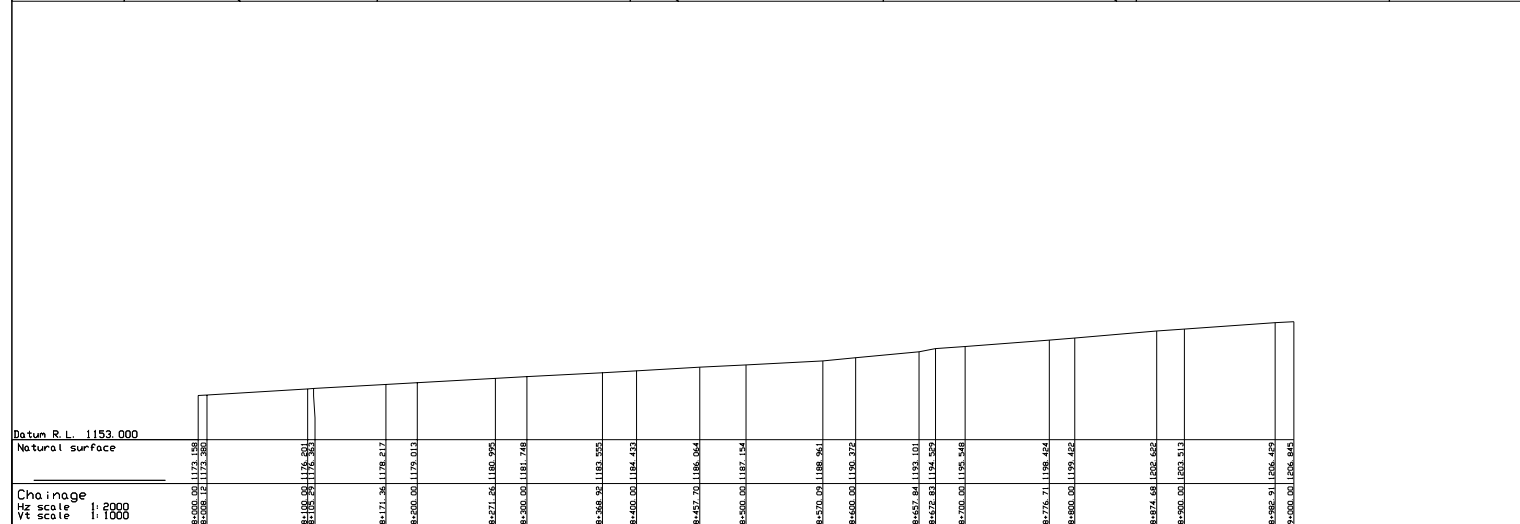
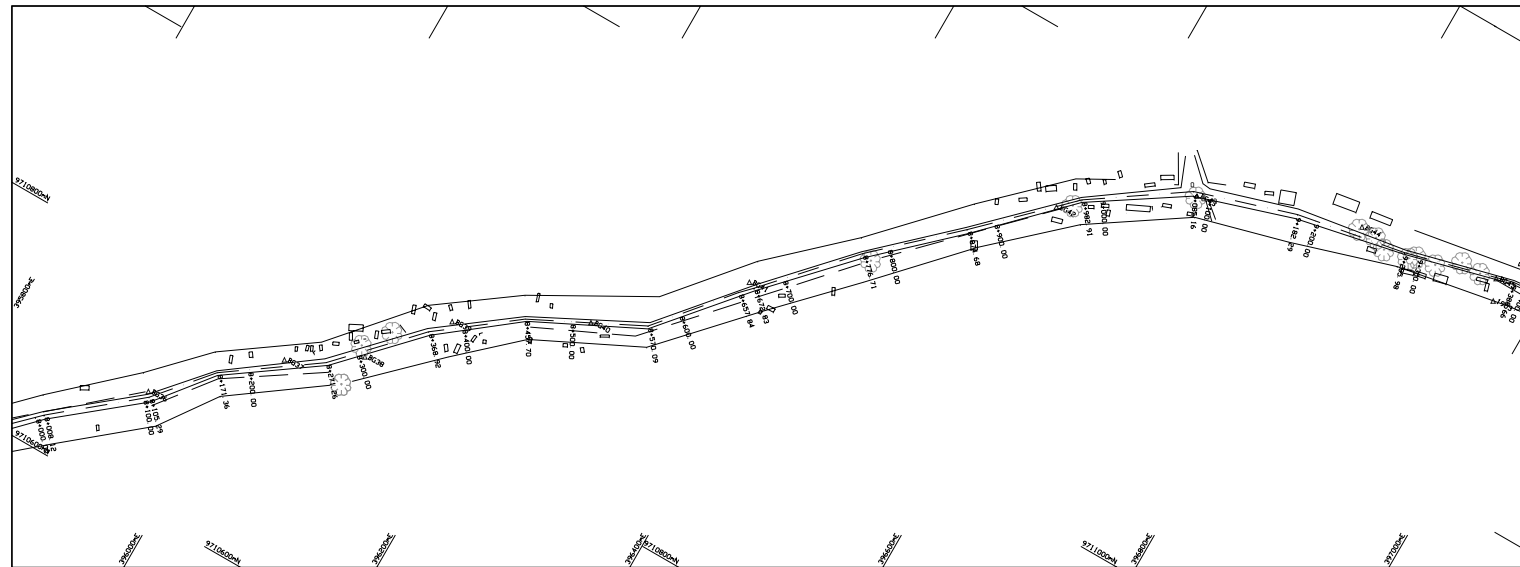
Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN Mwanza AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR BULIGI FINAL

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No.
BL 1	08

Survey Drawings Buligi 8



Station	8+000.00	8+050.00	8+100.00	8+150.00	8+200.00	8+250.00	8+300.00	8+350.00	8+400.00	8+450.00	8+500.00	8+550.00	8+600.00	8+650.00	8+700.00	8+750.00	8+800.00	8+850.00	8+900.00	8+950.00	9+000.00
Natural surface	1172.198	1172.388	1176.312	1179.012	1180.595	1181.748	1183.295	1184.432	1186.064	1187.124	1188.361	1190.322	1193.101	1194.342	1195.348	1198.424	1200.462	1203.512	1206.482	1206.482	1206.482

Longitudinal section between 8+000.00 and 9+000.00
1

Client: KOKUSAI KOGYO CO. LTD
2 Rokusaiji, cho, Chiyoda-ku
Tokyo, Japan.
Contractor: GED-HYDRO CONSULTANTS LTD
P. O. Box 184478 Tel: +255 748 490 205
Dar es Salaam, United Republic of Tanzania

Notes:

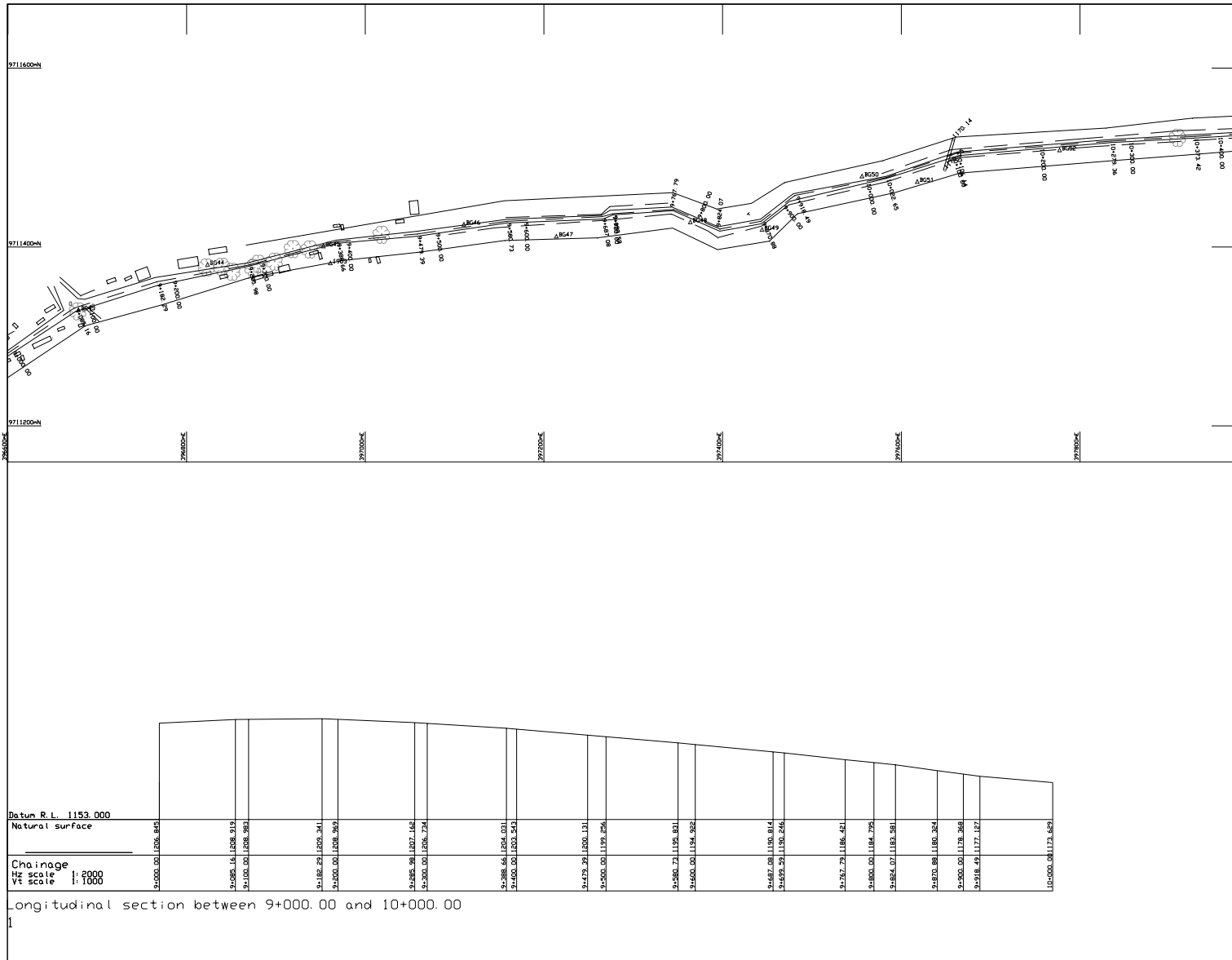
No.	Amendment	By	Date
	Design		
	Draft		
	Checked		
	Approved		
	Date		23 APR 2006

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 BULGI FINAL

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No.
BL 1	09



Datum R.L. 1153.000
Natural surface

Chainage
Hx scale 1:2000
Vt scale 1:1000

Longitudinal section between 9+000.00 and 10+000.00

1

Client:
KOKUSAI KOGYO CO. LTD
2 Rokuban, cho, Chiyodo-ku
Tokyo, Japan.
Contractor:
GED-HYDRO CONSULTANTS LTD
P O Box 08478 Tel: +255 748 490 309
Dar es Salaam, United Republic of Tanzania

Notes.

No.	Amendment	By	Date
	Design		
	Checked		
	Approved		
	Date		23 APR 2006

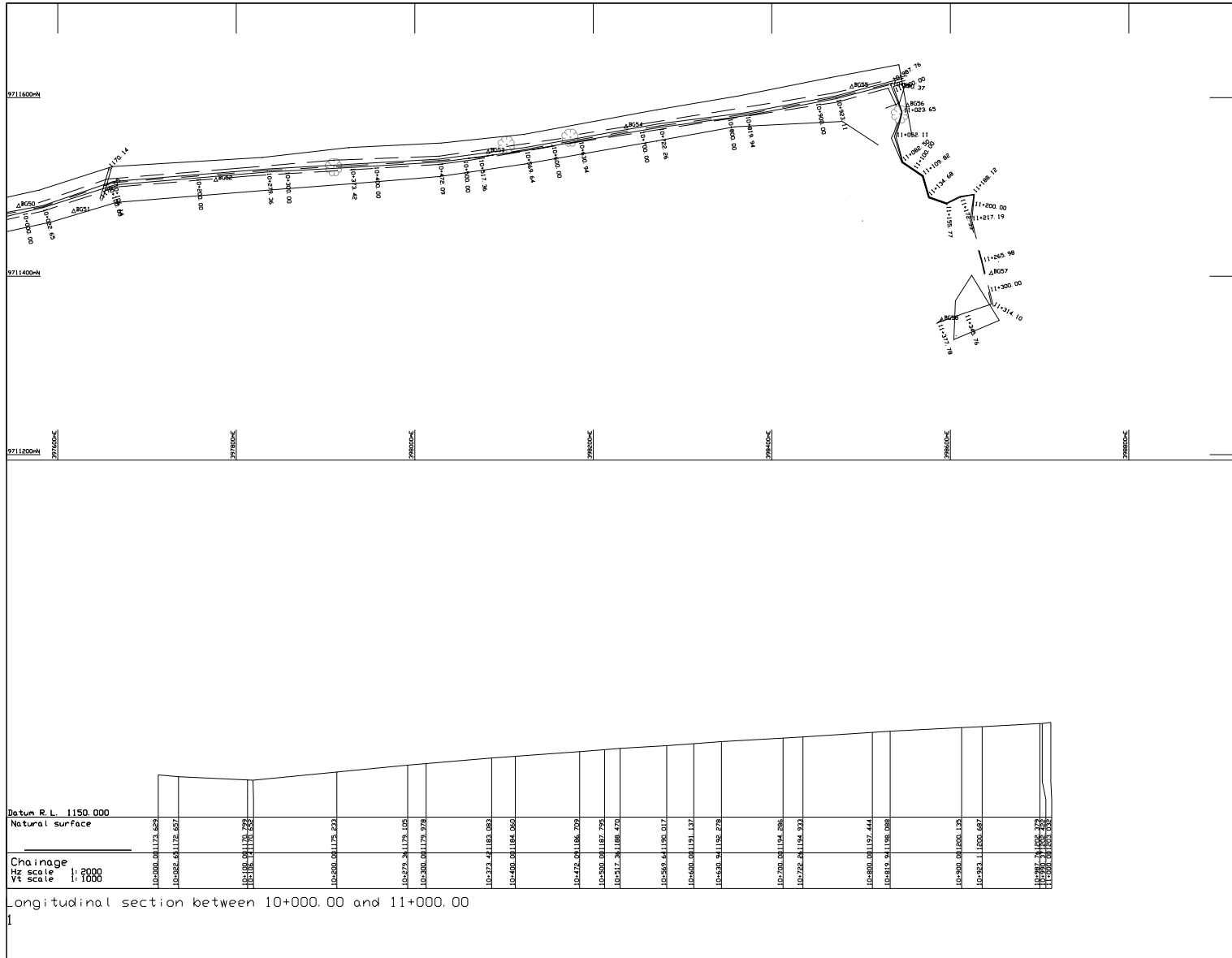
Job Title:
TOPOGRAPHICAL SURVEY FOR THE STUDY ON
RURAL WATER SUPPLY IN MWANZA AND MARA
REGIONS IN THE UNITED REPUBLIC OF
TANZANIA

Drawing Title:
PLAN AND LONGITUDINAL PROFILE

FOR
BULIGI FINAL

Scale	Revision
HZ 1:2000	
VT 1:1000	
Job ID	Drawing No.
BL1	10

Survey Drawings Buligi 10



Client
KOKUSAI KOGYO CO. LTD
 2-10-10, Rikuban, Chio, Chiyoda-ku
 Tokyo, JAPAN

Contractor
GEO-HYDR CONSULTANTS LTD
 P. O. Box 104678, Tel: +255 748 490 225
 Dar es Salaam, United Republic of Tanzania

Notes.

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date	23 APR 2006	

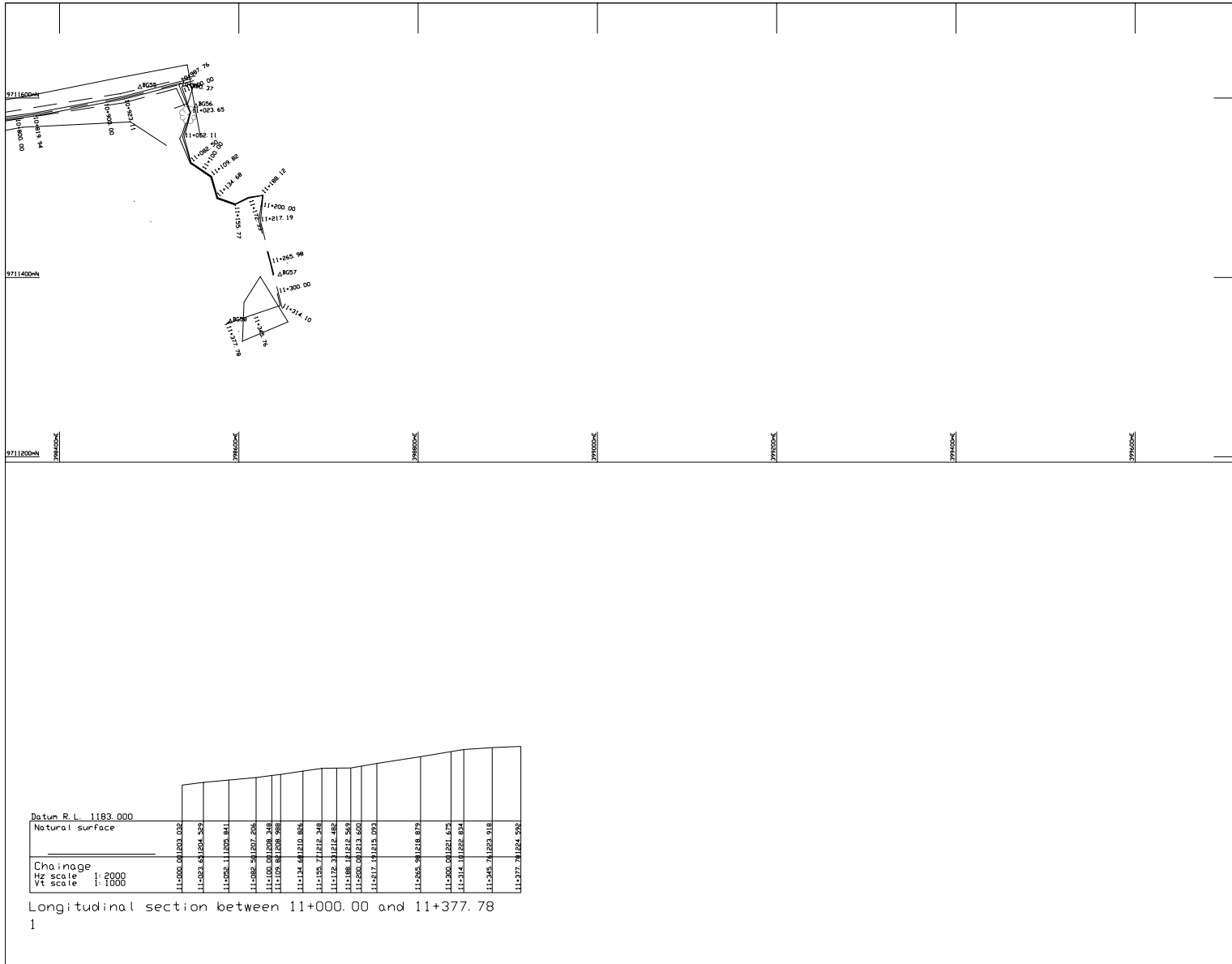
Job Title
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN MWANZA AND MARA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title
 PLAN AND LONGITUDINAL PROFILE
 FOR
 BULIGI FINAL

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No.
BL 1	1 1

Survey Drawings Buligi 11



Stationing	Elevation
11+000.00	1189.000
11+010.00	1189.000
11+020.00	1189.000
11+030.00	1189.000
11+040.00	1189.000
11+050.00	1189.000
11+060.00	1189.000
11+070.00	1189.000
11+080.00	1189.000
11+090.00	1189.000
11+100.00	1189.000
11+110.00	1189.000
11+120.00	1189.000
11+130.00	1189.000
11+140.00	1189.000
11+150.00	1189.000
11+160.00	1189.000
11+170.00	1189.000
11+180.00	1189.000
11+190.00	1189.000
11+200.00	1189.000
11+210.00	1189.000
11+220.00	1189.000
11+230.00	1189.000
11+240.00	1189.000
11+250.00	1189.000
11+260.00	1189.000
11+270.00	1189.000
11+280.00	1189.000
11+290.00	1189.000
11+300.00	1189.000
11+310.00	1189.000
11+320.00	1189.000
11+330.00	1189.000
11+340.00	1189.000
11+350.00	1189.000
11+360.00	1189.000
11+370.00	1189.000
11+377.78	1189.000

Longitudinal section between 11+000.00 and 11+377.78
1

Client: KOKUSAI KOGYO CO. LTD
2 Rokuban, 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	
Drawn	
Checked	
Approved	
Date	23 APR 2006

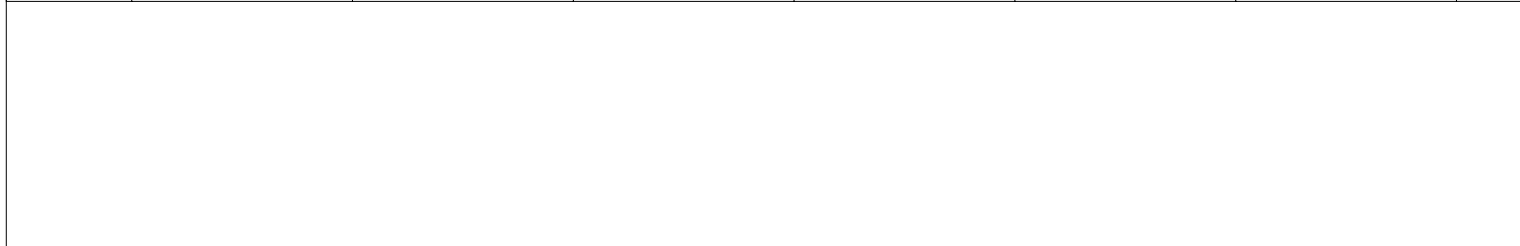
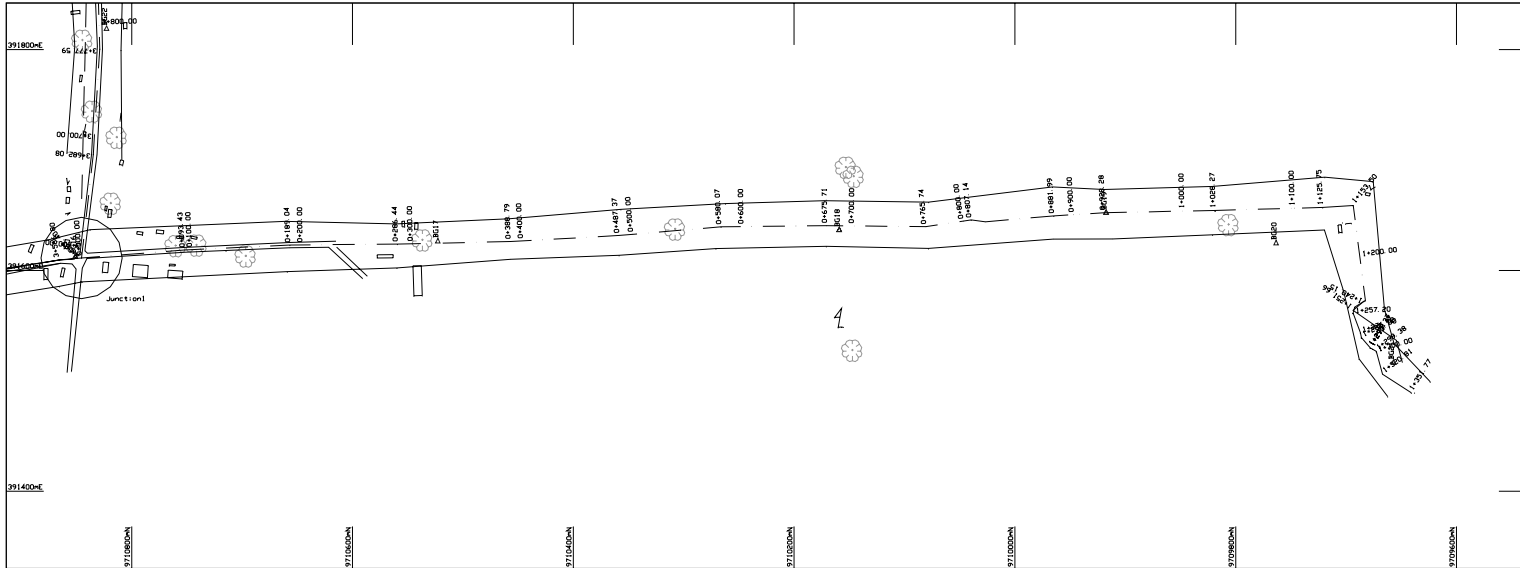
Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

Drawing Title:

PLAN AND LONGITUDINAL PROFILE
FOR
BULIGI FINAL

Scale	HZ 1:2000 VT 1:1000	Revision
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Job ID	BL1	Drawing No.	12
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Stationing	Level of Junction	Natural surface
0+000.00	1172.088	1172.088
0+050.00	1176.129	1176.129
0+100.00	1179.443	1179.443
0+150.00	1182.088	1182.088
0+200.00	1185.094	1185.094
0+250.00	1187.443	1187.443
0+300.00	1189.149	1189.149
0+350.00	1190.205	1190.205
0+400.00	1190.611	1190.611
0+450.00	1191.367	1191.367
0+500.00	1192.473	1192.473
0+550.00	1193.929	1193.929
0+600.00	1195.735	1195.735
0+650.00	1197.891	1197.891
0+700.00	1200.407	1200.407
0+750.00	1203.283	1203.283
0+800.00	1206.529	1206.529
0+850.00	1210.145	1210.145
0+900.00	1214.131	1214.131
0+950.00	1218.487	1218.487
1+000.00	1223.213	1223.213

Level of Junction

Batum R.L. 1153.000

Natural surface

Chainage
 HZ scale 1:2000
 VT scale 1:1000

Longitudinal section between 0+000.00 and 1+000.00

Client
 KOKUSAI KOGYO CO. LTD
 2 Rokusen, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor
 GED-HYDRD 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	23 APR 2006

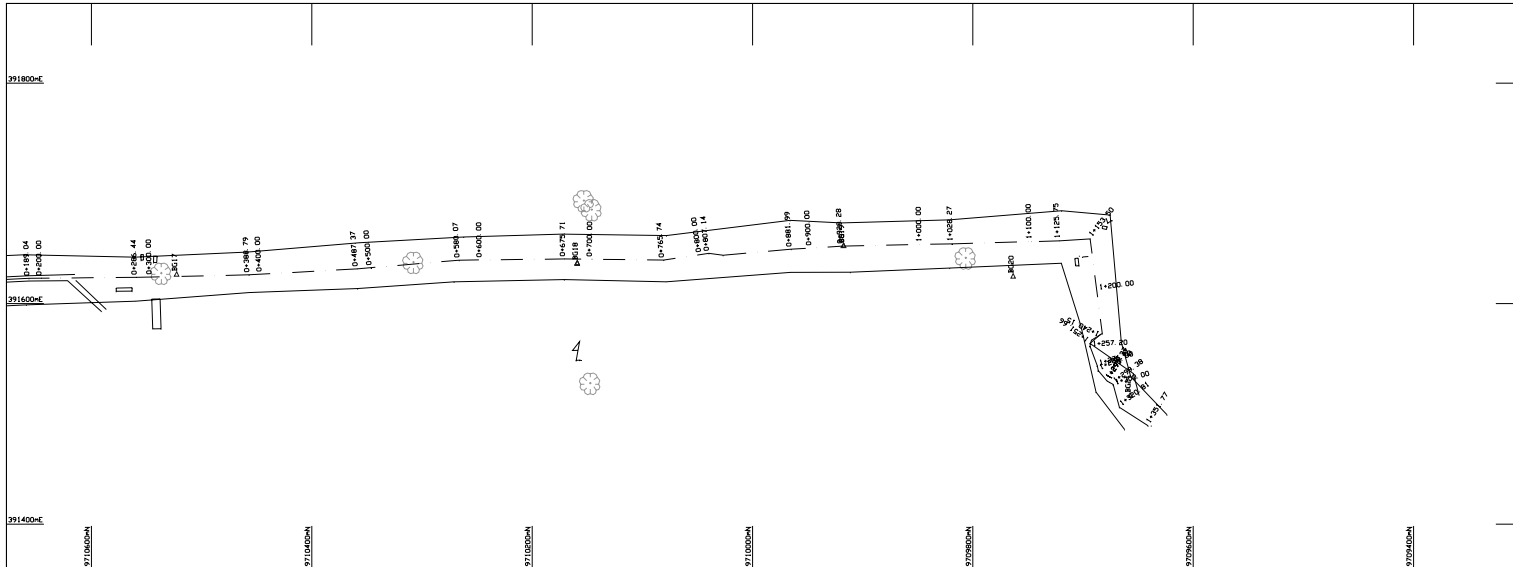
JOB TITLE
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN NYANZA AND MARA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title

PLAN AND LONGITUDINAL PROFILE
 FOR
 BULIGI FINAL

Scale	HZ 1:2000	Revision	
	VT 1:1000		

Job ID	BL1	Drawing No	13
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Chainage	1+000.00	1+028.27	1+100.00	1+125.35	1+150.30	1+200.00	1+240.15	1+267.00	1+280.00	1+283.47	1+284.00	1+284.70	1+285.00	1+285.31	1+286.00	1+286.99	1+351.77
Natural surface	218.970	220.472	222.798	223.572	223.770	227.690	230.904	231.824	233.447	233.447	234.270	234.270	234.270	234.270	234.999	237.637	

Longitudinal section between 1+000.00 and 1+351.77

Client: KOKUSAI KOGYO CO. LTD
 2-10-10, Rinsen-cho, Chiyoda-ku
 Tokyo, Japan
 Contractor: GED-HYDRO CONSULTANTS LTD
 P. O. Box 084678 Tel: +255 748 490 335
 Dar es Salaam, United Republic of Tanzania

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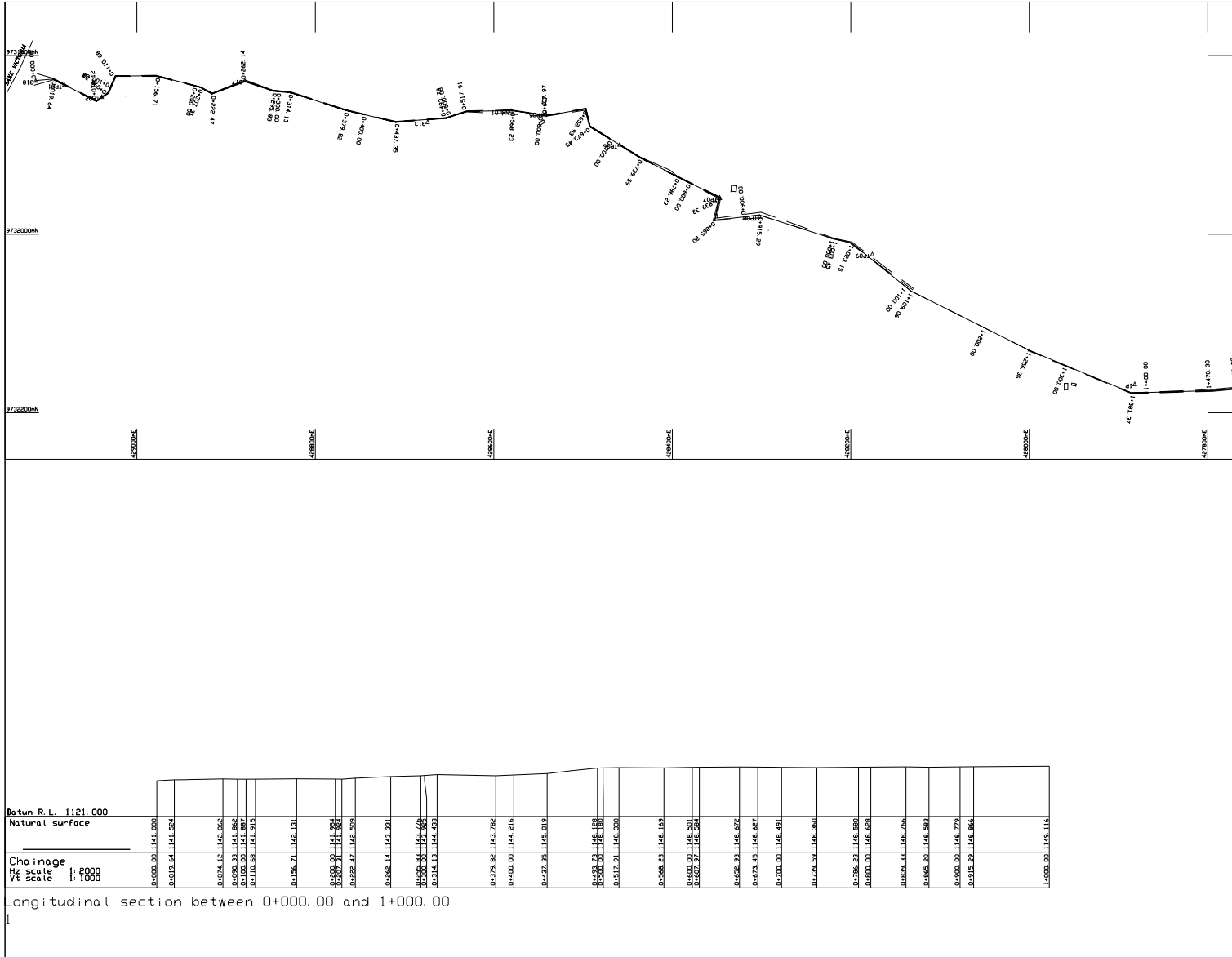
No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date	23 APR 2006	

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 BULIGI FINAL

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No
BL1	14



Client: KIKUSAI KOGYO CO. LTD
 2 Naitsubu, Cho, Chiyoda-ku
 Tokyo, Japan

Contractor: GED-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	23 APR 2006	

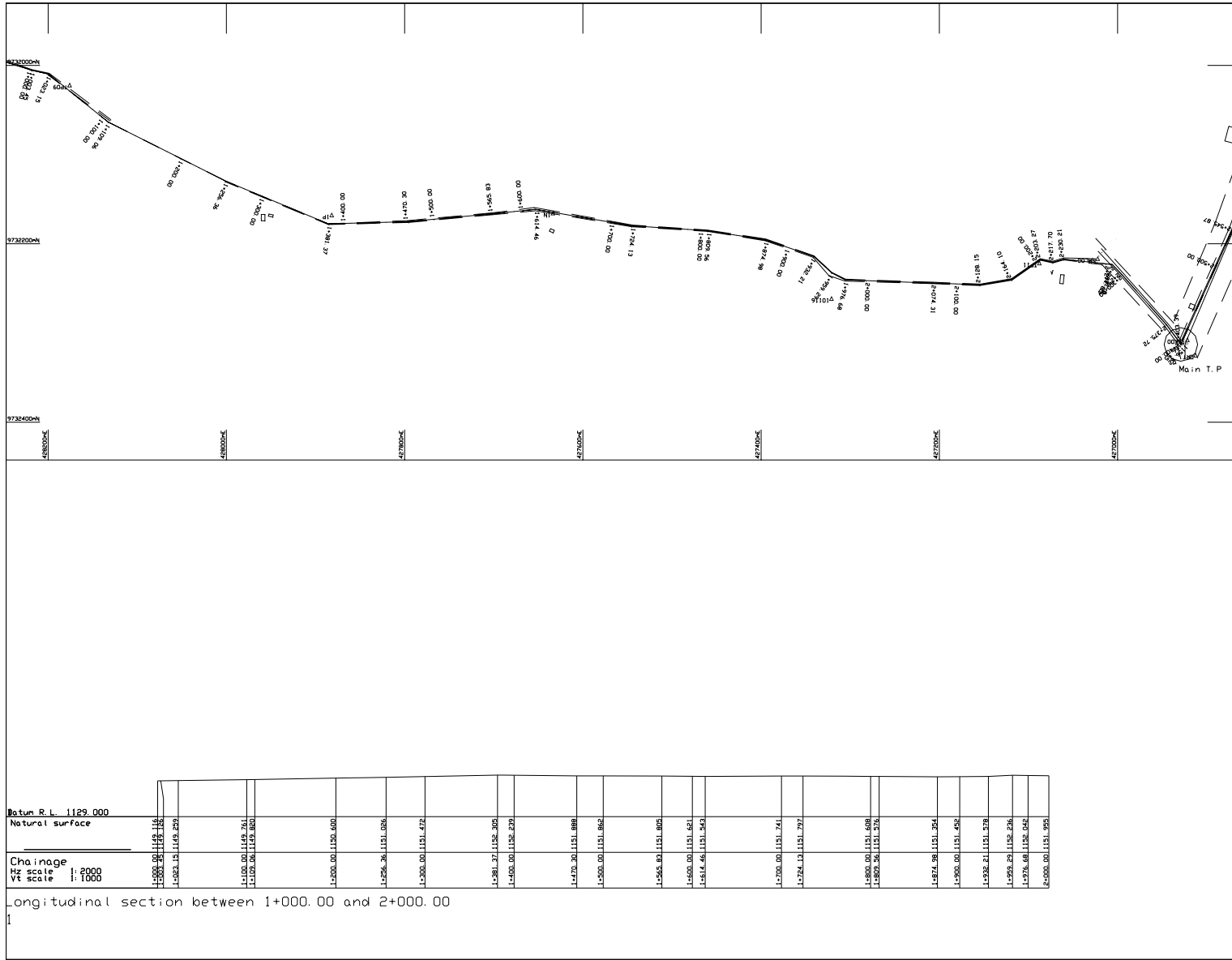
Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN HINAKA AND MABA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR ISAKA PIPPED SCHEMED

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No.
SKK	01

Survey Drawings Isaka 1



Station	1+000.00	1+050.00	1+100.00	1+150.00	1+200.00	1+250.00	1+300.00	1+350.00	1+400.00	1+450.00	1+500.00	1+550.00	1+600.00	1+650.00	1+700.00	1+750.00	1+800.00	1+850.00	1+900.00	1+950.00	2+000.00
Natural surface	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600
Proposed Profile	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600	1152.600

Return R.L. 1129.000
 Natural surface
 Chainage
 HZ scale 1:2000
 VT scale 1:1000

Longitudinal section between 1+000.00 and 2+000.00

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

Contractor: **GEO-HYDRO CONSULTANTS LTD**
 P. O. Box 164678 Tel: +255 748 490 535
 Dar es Salaam, United Republic of Tanzania

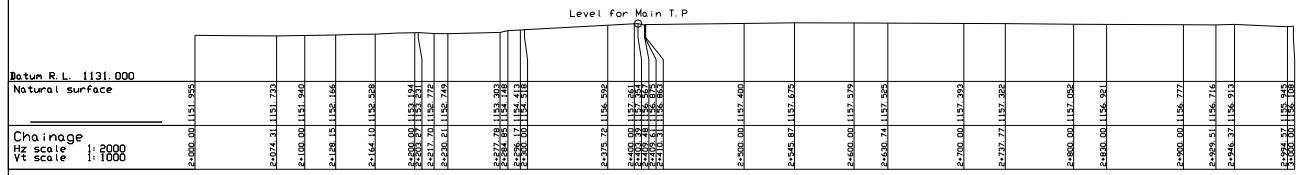
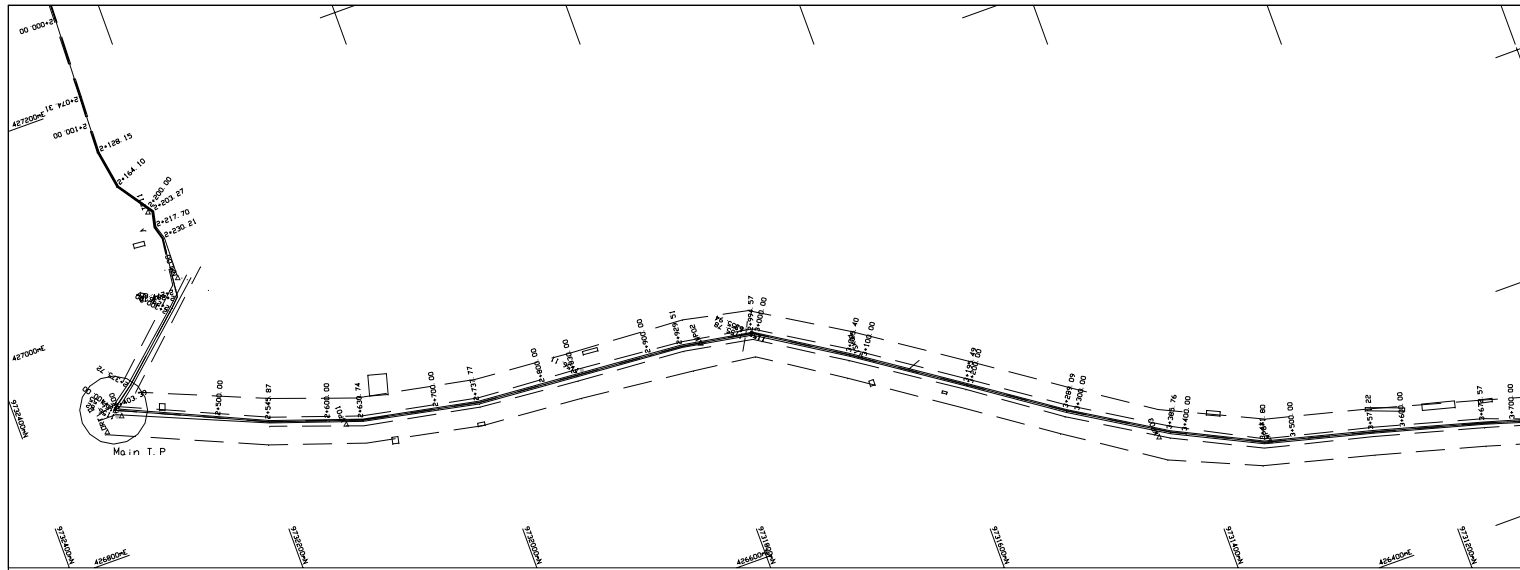
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No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		23 APR 2006

200-1134
 TOPOGRAHICAL 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
ISAKA PIPPED SCHEMED

Scale:	HZ 1:2000	Revision:	
	VT 1:1000		
Job ID:	SKK	Drawing No.:	03



Longitudinal section between 2+000.00 and 3+000.00

10

Client:
KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor:
GED-HYDRO CONSULTANTS LTD
 P. O. Box 98478 Tel: +255 748 490 995
 Dar es Salaam, United Republic of Tanzania

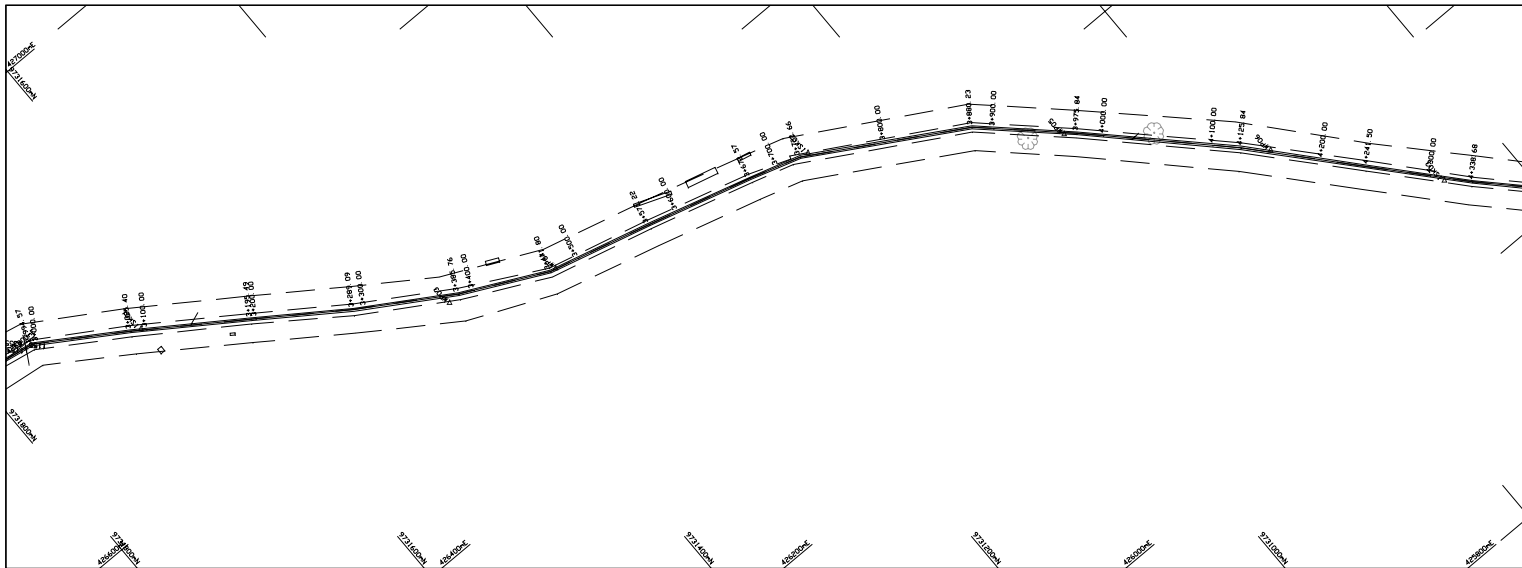
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No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		23 APR 2006

PROJECT: RURAL WATER SUPPLY 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
ISAKA PIPPED SCHEMED

Scale:	HZ 1:2000	Revision:	
	VT 1:10000		
Job ID:	SKK	Drawing No.:	03



Station	Natural surface (m)	Proposed Road (m)
3+000.00	1156.108	1166.170
3+050.00	1156.498	1166.170
3+100.00	1156.771	1166.170
3+150.00	1156.811	1166.170
3+200.00	1156.796	1166.170
3+250.00	1164.406	1166.170
3+300.00	1164.605	1166.170
3+350.00	1164.282	1166.170
3+400.00	1164.332	1166.170
3+450.00	1165.186	1166.170
3+500.00	1165.186	1166.170
3+550.00	1165.761	1166.170
3+600.00	1165.640	1166.170
3+650.00	1165.497	1166.170
3+700.00	1165.256	1166.170
3+750.00	1165.512	1166.170
3+800.00	1165.512	1166.170
3+850.00	1165.512	1166.170
3+900.00	1165.512	1166.170
3+950.00	1165.512	1166.170
4+000.00	1166.170	1166.170

Longitudinal section between 3+000.00 and 4+000.00

Client: KOKUSAI KOGYO CO. LTD
 2 Rokusen, cho, Chiyoda-ku
 Tokyo, Japan.
 Contract: GED-HYDRO CONSULTANTS LTD
 P. O. Box 184678 Tel: +255 748 490 355
 Dar es Salaam, United Republic of Tanzania

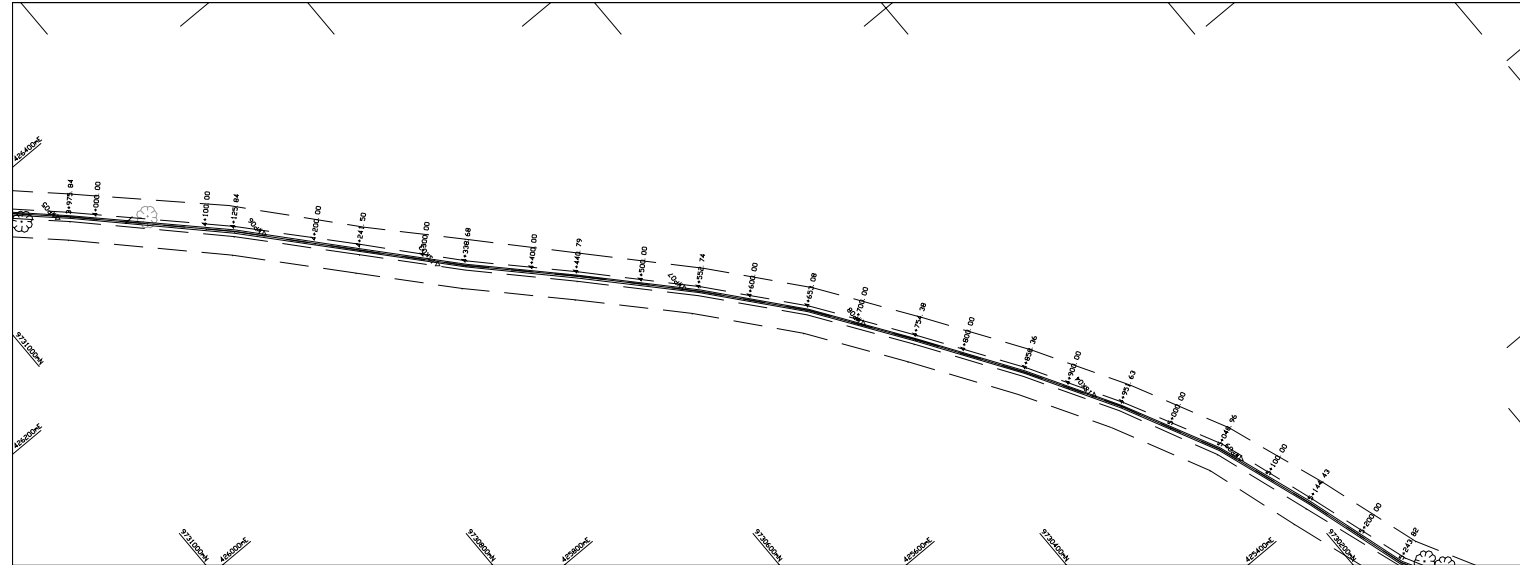
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No.	Amendment	By	Date
	Design		
	Checked		
	Approved		
	Date		23 APR 2006

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 ISAKA PIPPED SCHEMED

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



Chainage	4+000.00	4+100.00	4+200.00	4+300.00	4+400.00	4+500.00	4+600.00	4+700.00	4+800.00	4+900.00	5+000.00
Natural surface	1168.170	1163.118	1160.800	1170.806	1171.456	1172.413	1173.516	1174.486	1175.272	1176.178	1176.632
Proposed Piped Scheme	1168.170	1163.118	1160.800	1170.806	1171.456	1172.413	1173.516	1174.486	1175.272	1176.178	1176.632

Longitudinal section between 4+000.00 and 5+000.00

Client: KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GEO-HYDR CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 325
 Dar es Salaam, United Republic of Tanzania

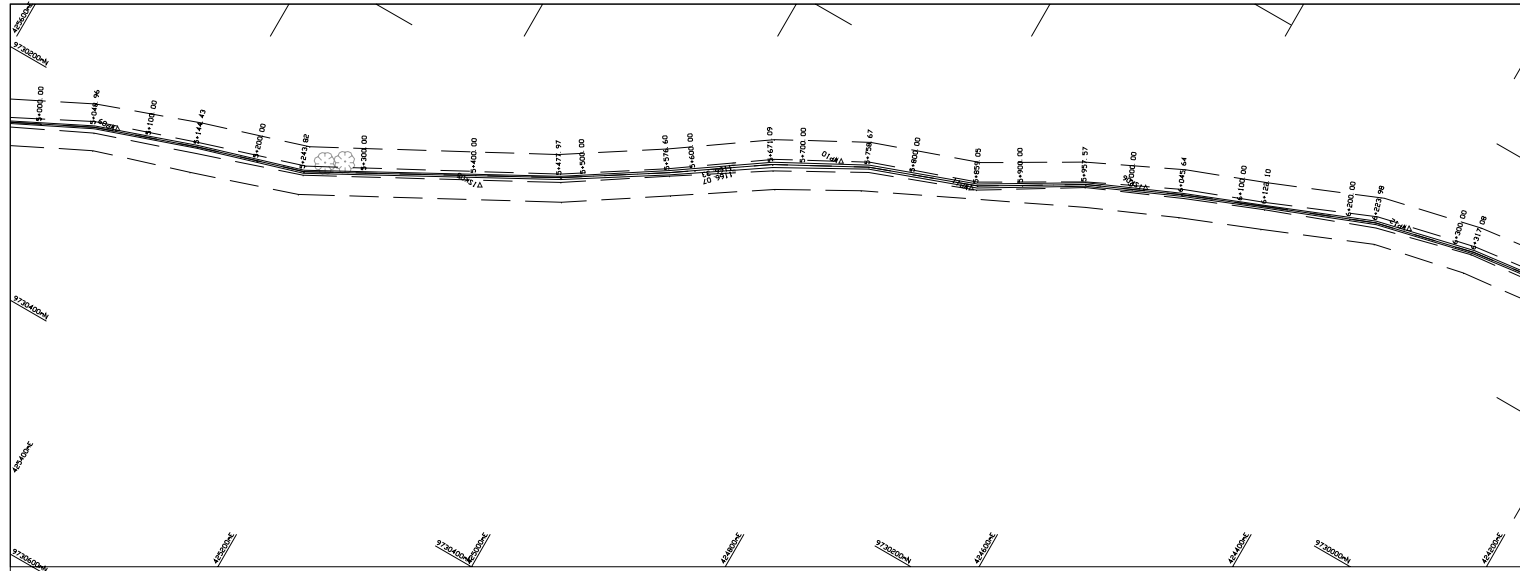
Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		23 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
 ISAKA PIPED SCHEMED

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



Station	Natural surface (m)	Proposed pipe (m)
5+000.00	1175.927	1175.927
5+046.96	1175.923	1175.923
5+100.00	1174.390	1174.390
5+144.43	1174.416	1174.416
5+200.00	1173.370	1173.370
5+245.86	1173.429	1173.429
5+300.00	1172.124	1172.124
5+400.00	1169.798	1169.798
5+477.97	1167.395	1167.395
5+500.00	1167.295	1167.295
5+576.60	1167.264	1167.264
5+600.00	1167.313	1167.313
5+677.09	1167.392	1167.392
5+700.00	1168.302	1168.302
5+796.67	1169.114	1169.114
5+800.00	1169.301	1169.301
5+892.00	1169.708	1169.708
5+900.00	1169.638	1169.638
5+957.57	1169.254	1169.254
6+000.00	1169.321	1169.321

Longitudinal section between 5+000.00 and 6+000.00

1

Client: KOKUSAI KOGYO CO. LTD
 2 Rokusai, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GEO-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 419 555
 Dar es Salaam, United Republic of Tanzania

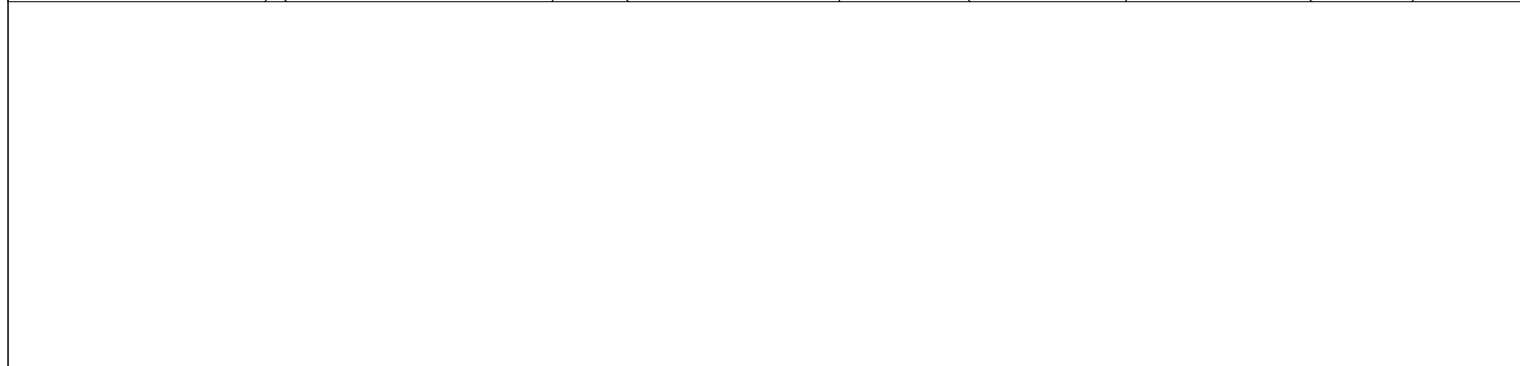
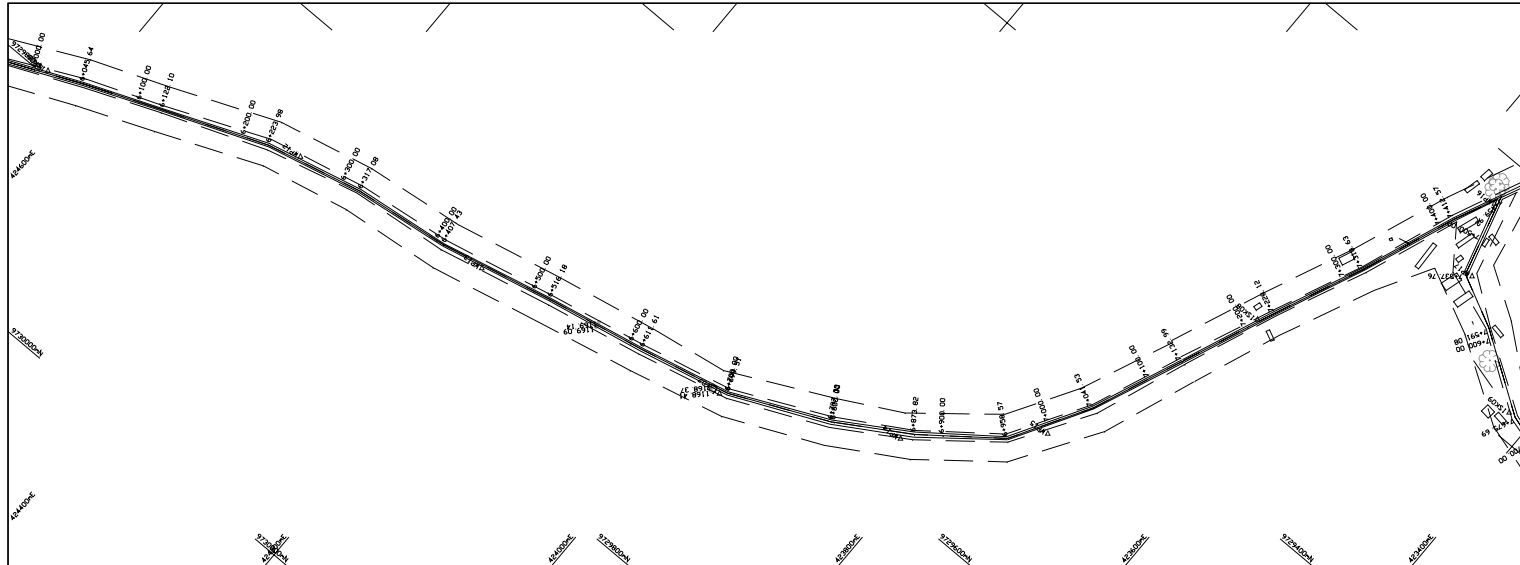
Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		23 APR 2006

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

Drawing Title:
PLAN AND LONGITUDINAL PROFILE
 FOR
ISAKA PIPED SCHEMED

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



Stationing	Elevation
6+000.00	1169.621
6+005.00	1169.800
6+010.00	1169.595
6+015.00	1169.389
6+020.00	1169.895
6+025.00	1169.814
6+030.00	1169.971
6+035.00	1170.007
6+040.00	1169.970
6+045.00	1169.964
6+050.00	1169.789
6+055.00	1169.798
6+060.00	1170.466
6+065.00	1170.564
6+070.00	1168.509
6+075.00	1168.513
6+080.00	1172.477
6+085.00	1174.950
6+090.00	1175.749
6+095.00	1177.964
7+000.00	1178.725

Longitudinal section between 6+000.00 and 7+000.00

Client:
KOKUSAI KOGYO CO. LTD
 2-10-10, Rokuban-cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor:
GEO-HYDRO CONSULTANTS LTD
 P. O. Box 104670 Tel: +255 740 490 355
 Dar es Salaam, United Republic of Tanzania

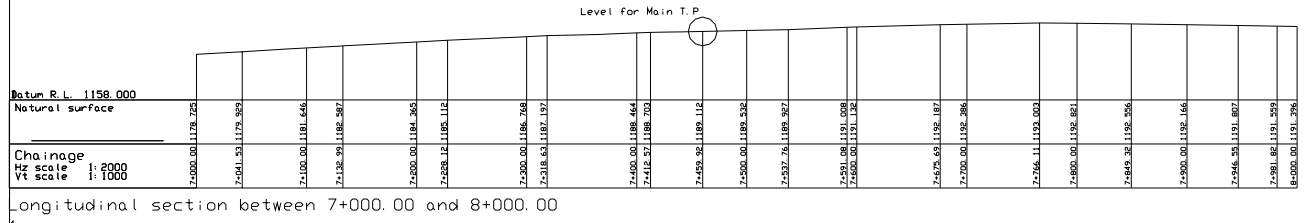
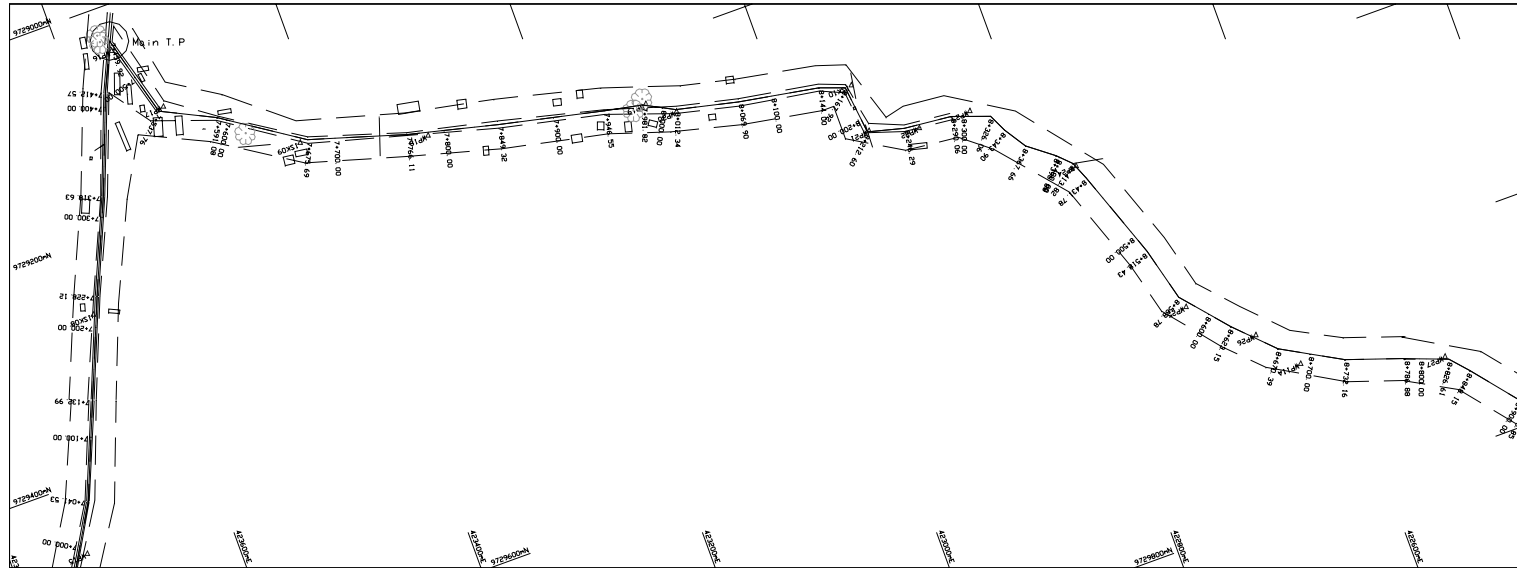
Notes:

No.	Amendment	By	Date
	Design		
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	Checked		
	Approved		
	Date		23 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
ISAKA PIPPED SCHEMED

Scale	Revision
HZ 1:2000	
VT 1:1000	
Job ID	Drawing No
SKK	07



Client:
KOKUSAI KOGYO CO. LTD
 2-10-10, Roppongi, Chiyoda-ku
 Tokyo, Japan.
 Contractor:
GED-HYDRO CONSULTANTS LTD
 P. O. Box 864/28, Tel: +255 748 498 505
 Dar es Salaam, United Republic of Tanzania

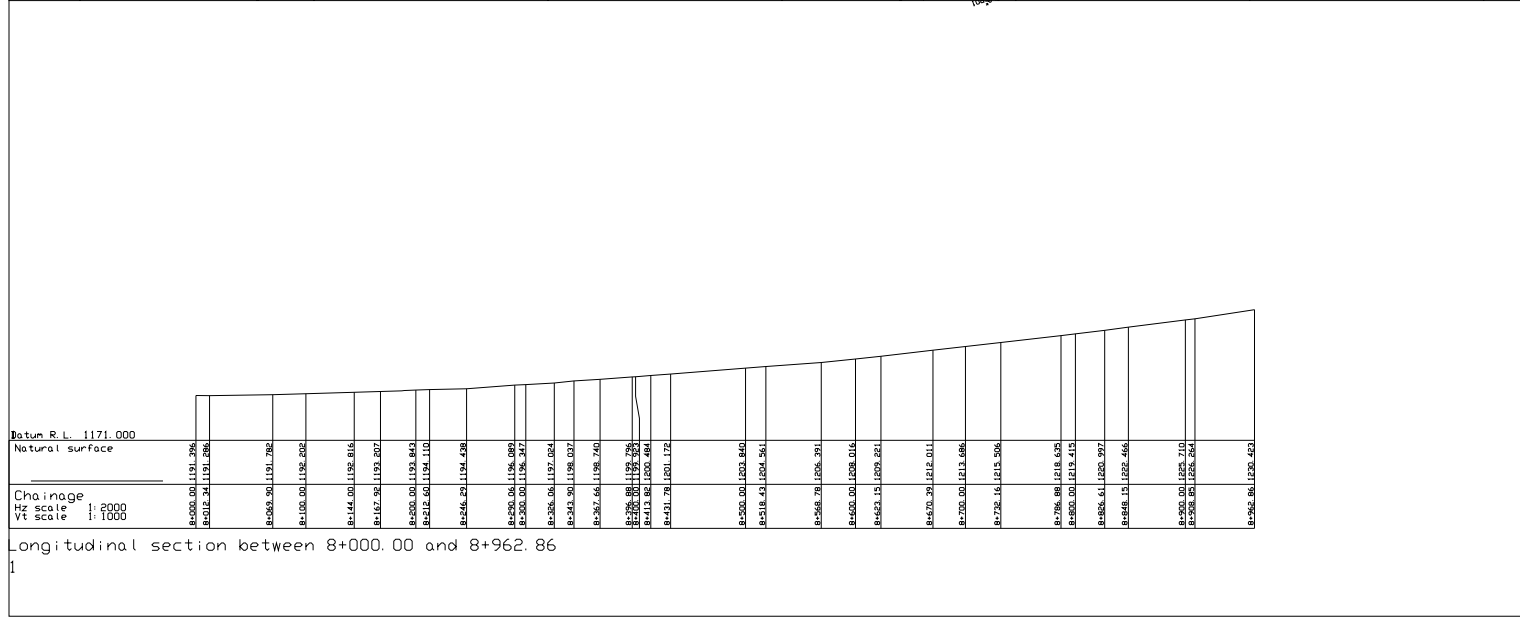
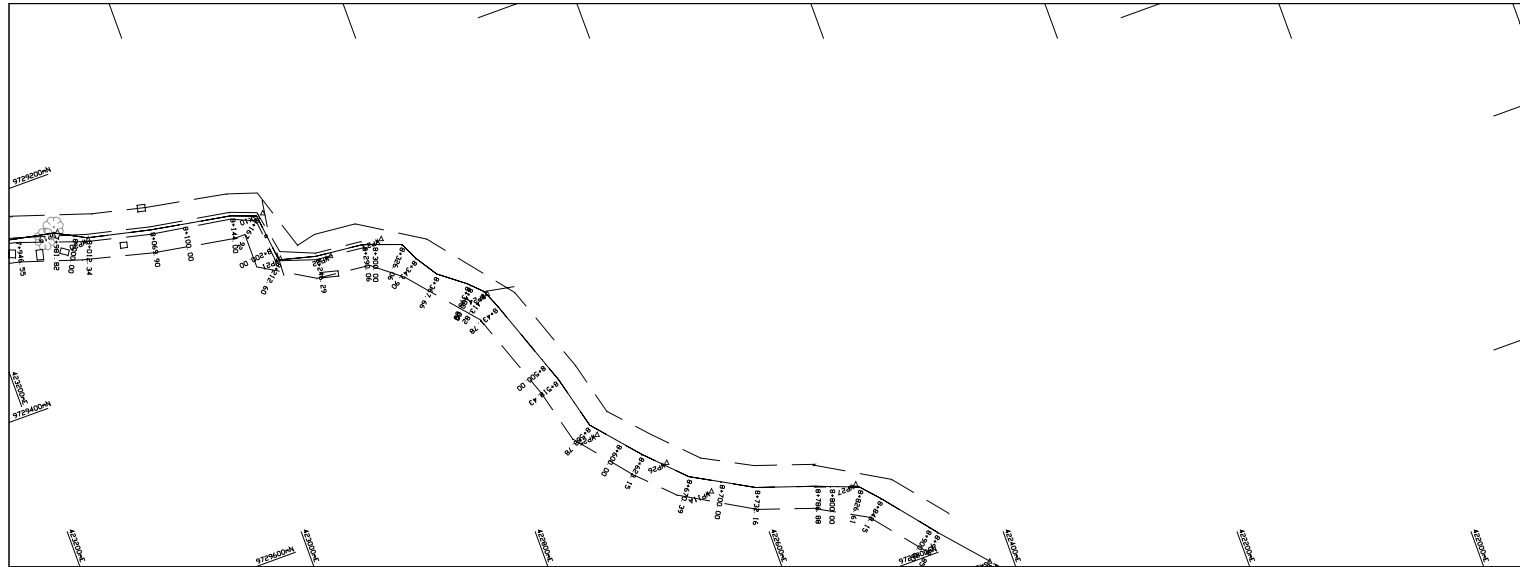
Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date	23 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
 ISAKA PIPPED SCHEMED**

Scale:	HZ 1:2000	Revision:	
	VT 1:1000		
Job ID:	SKK	Drawing No.:	08



Client:
 KOKUSAI KOGYO CO. LTD
 2 Rokusen, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor:
 GEO-HYDRO CONSULTANTS LTD
 P. O. Box 1042/78 Tel: +255 748 490 505
 Dar es Salaam, United Republic of Tanzania

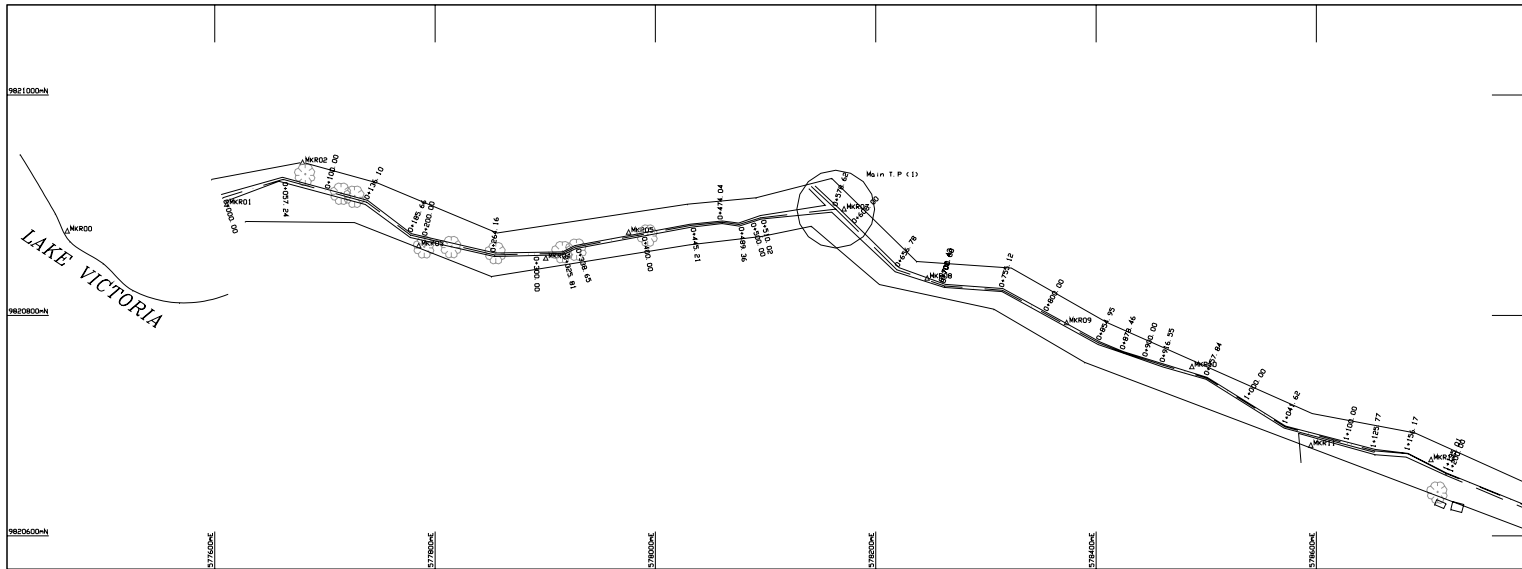
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	Design		
	Drawn		
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	Date		23 APR 2006

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
 ISAKA PIPPED SCHEMED

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



Datum R.L. 1120.000

Natural surface

Chainage
 HZ scale 1:2000
 VT scale 1:1000

Longitudinal section between 0+000.00 and 1+000.00

Levels for Main T.P.C.D

0+000.00	0+005.00	0+010.00	0+015.00	0+020.00	0+025.00	0+030.00	0+035.00	0+040.00	0+045.00	0+050.00	0+055.00	0+060.00	0+065.00	0+070.00	0+075.00	0+080.00	0+085.00	0+090.00	0+095.00	1+000.00
1120.00	1119.95	1119.90	1119.85	1119.80	1119.75	1119.70	1119.65	1119.60	1119.55	1119.50	1119.45	1119.40	1119.35	1119.30	1119.25	1119.20	1119.15	1119.10	1119.05	1119.00

Client: KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GED-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 746 490 325
 Dar es Salaam, United Republic of Tanzania

Notes:

No. Amendment.	By.	Date
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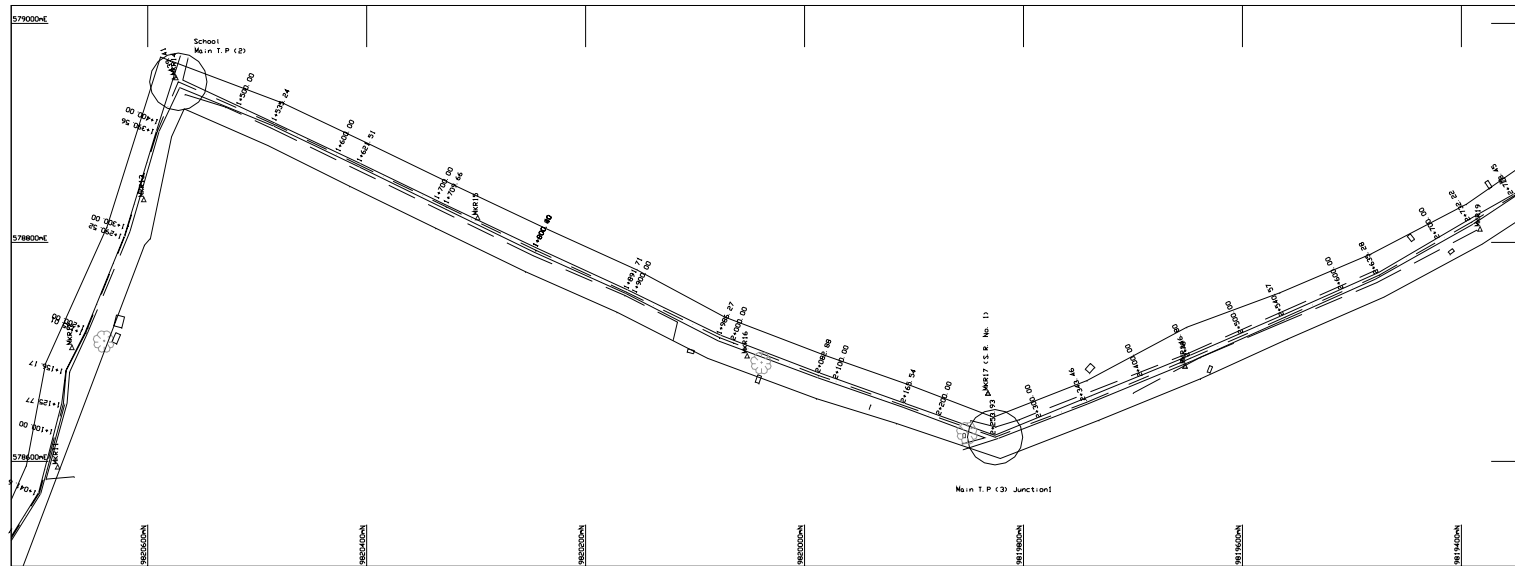
13 April 2006
 995-11116
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN MWANZA AND MARA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title:

PLAN AND LONGITUDINAL PROFILE
 FOR
 MKIRIRA PIPED SCHEME

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

Job ID	Drawing No.
MKR	01



Level for Main T.P (2)

Chainage	Natural surface	Proposed profile
1+000.00	1146.802	1154.246
1+050.00	1149.201	1154.246
1+100.00	1150.163	1154.246
1+150.00	1150.565	1154.246
1+200.00	1150.970	1154.246
1+250.00	1151.382	1154.246
1+300.00	1151.797	1154.246
1+350.00	1152.216	1154.246
1+400.00	1152.638	1154.246
1+450.00	1153.063	1154.246
1+500.00	1153.491	1154.246
1+550.00	1153.922	1154.246
1+600.00	1154.356	1154.246
1+650.00	1154.793	1154.246
1+700.00	1155.233	1154.246
1+750.00	1155.676	1154.246
1+800.00	1156.122	1154.246
1+850.00	1156.571	1154.246
1+900.00	1157.022	1154.246
1+950.00	1157.475	1154.246
2+000.00	1157.931	1154.246

Longitudinal section between 1+000.00 and 2+000.00

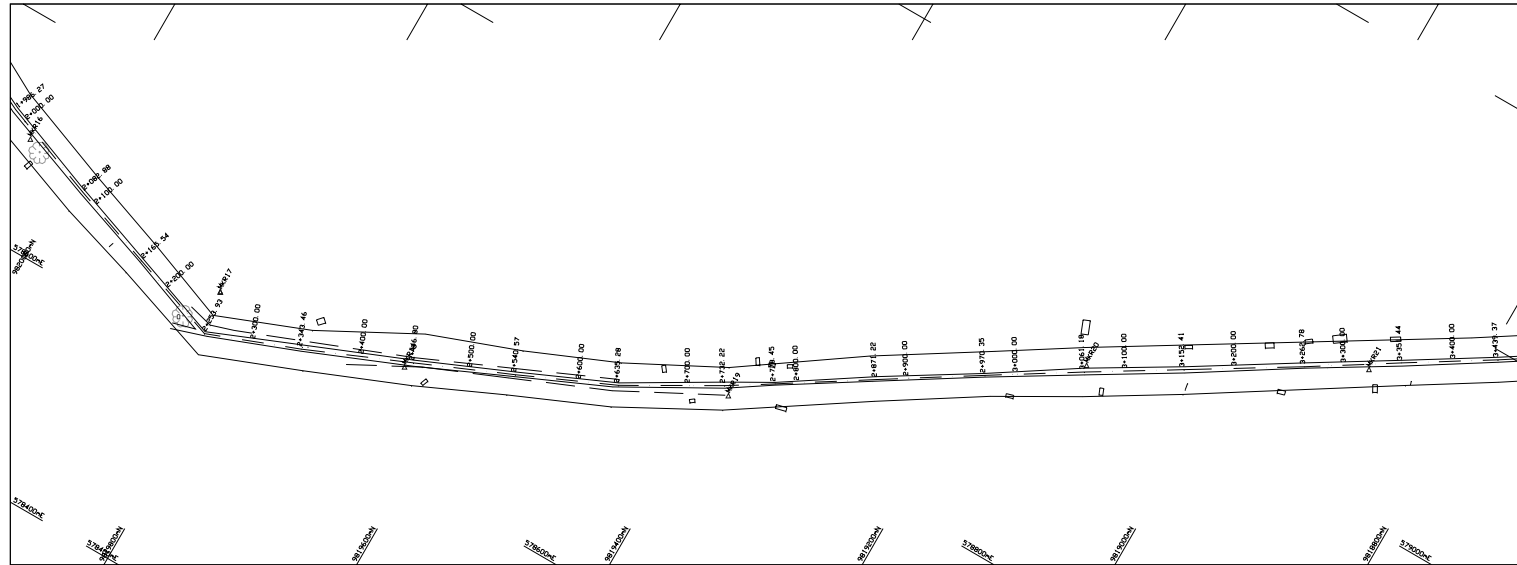
Client: **KOKUSAI KOGYO CO. LTD**
 2 Rokuban-cho, Chiyoda-ku
 Tokyo, Japan
 Contractor: **GEO-HYDRO CONSULTANTS LTD**
 P. O. Box 1842/97 Tel: +255 243 498 300
 Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
Date: 18 April 2006			

Scale: HZ 1:2000
 VT 1:1000

Job ID: MKA Drawing No: 02



Stationing	Natural surface
2+000.00	1151.281
2+050.00	1151.166
2+100.00	1151.165
2+150.54	1151.164
2+200.00	1151.071
2+250.33	1150.923
2+300.00	1151.628
2+350.46	1152.222
2+400.00	1153.224
2+450.89	1153.326
2+500.00	1154.251
2+550.57	1154.622
2+600.00	1154.654
2+650.28	1154.631
2+700.00	1154.384
2+750.22	1154.262
2+800.45	1154.156
2+850.00	1153.323
2+900.22	1153.454
2+950.35	1150.423
3+000.00	1150.447

Longitudinal section between 2+000.00 and 3+000.00

Client: KOKUSAI KOGYO CO. LTD
 3 Rokusen, cho, Chiyoda-ku
 Tokyo, Japan.
 Contract: CED-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 255
 Dar es Salaam, United Republic of Tanzania

Notes:

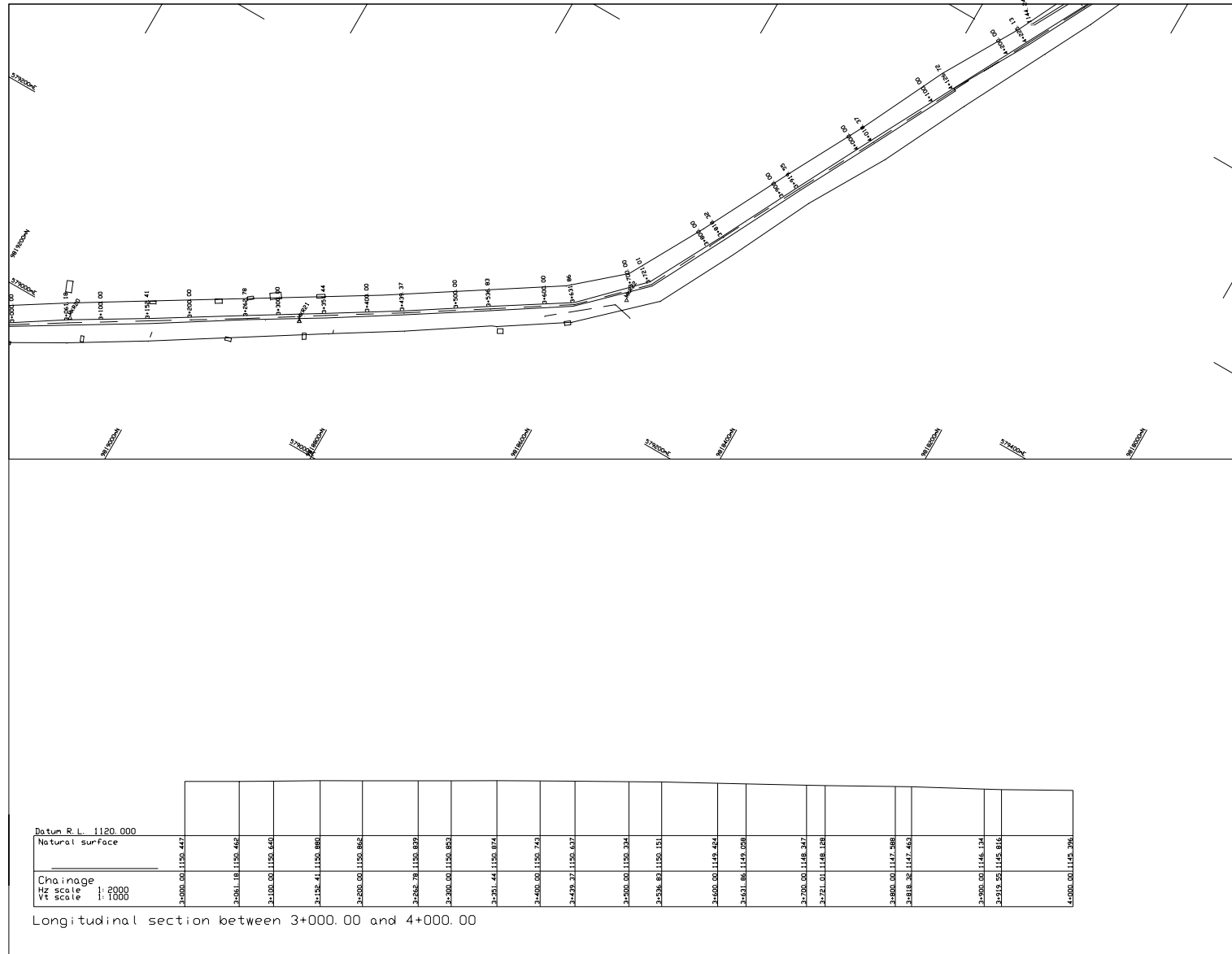
No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		18 April 2006

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

Drawing Title:
 PLAN AND LONGITUDINAL PROFILE
 FOR
 MKIRIRA PIPED SCHEME

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID: MKA
 Drawing No: 03



Client: KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, JAPAN
 Contractor: GEO-HYDRO CONSULTANTS LTD
 P. O. Box 10478, Tel: 025 748 490 200
 Dar es Salaam, United Republic of Tanzania

Notes:

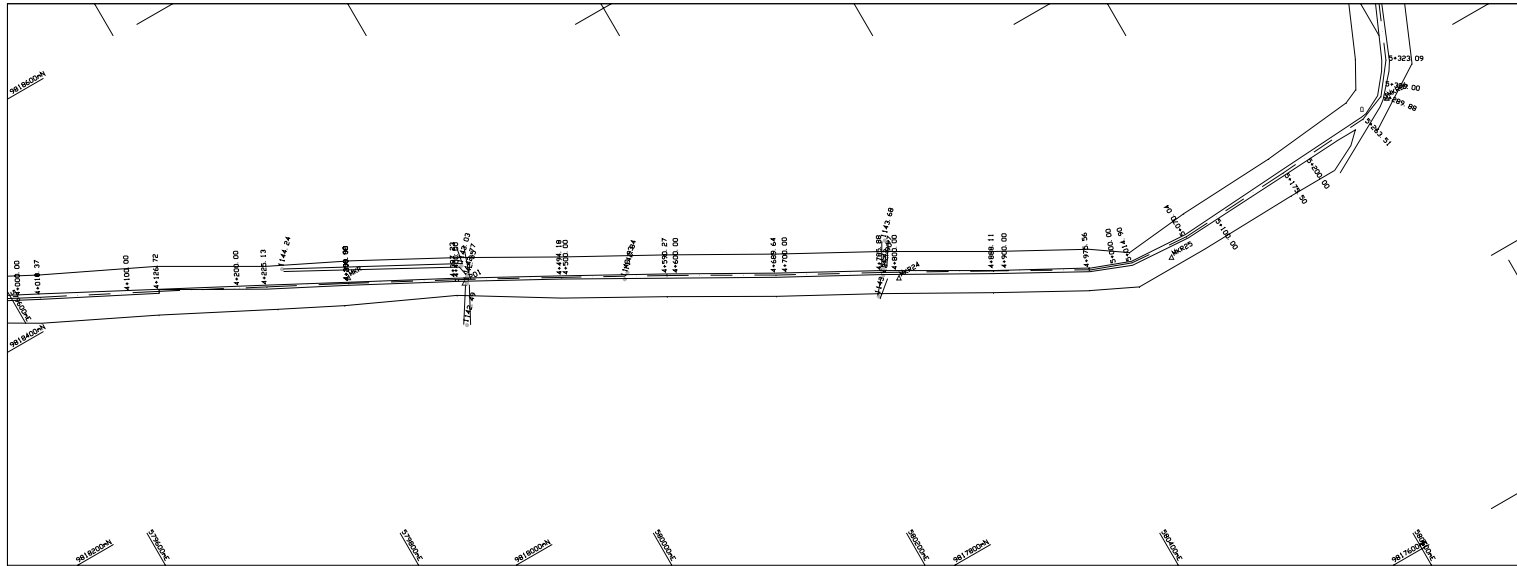
No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date	18 April 2006	

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

Drawing Title: PLAN AND LONGITUDINAL PROFILE FOR MKIRIRA PIPED SCHEME

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

Survey Drawings Mkirira 4




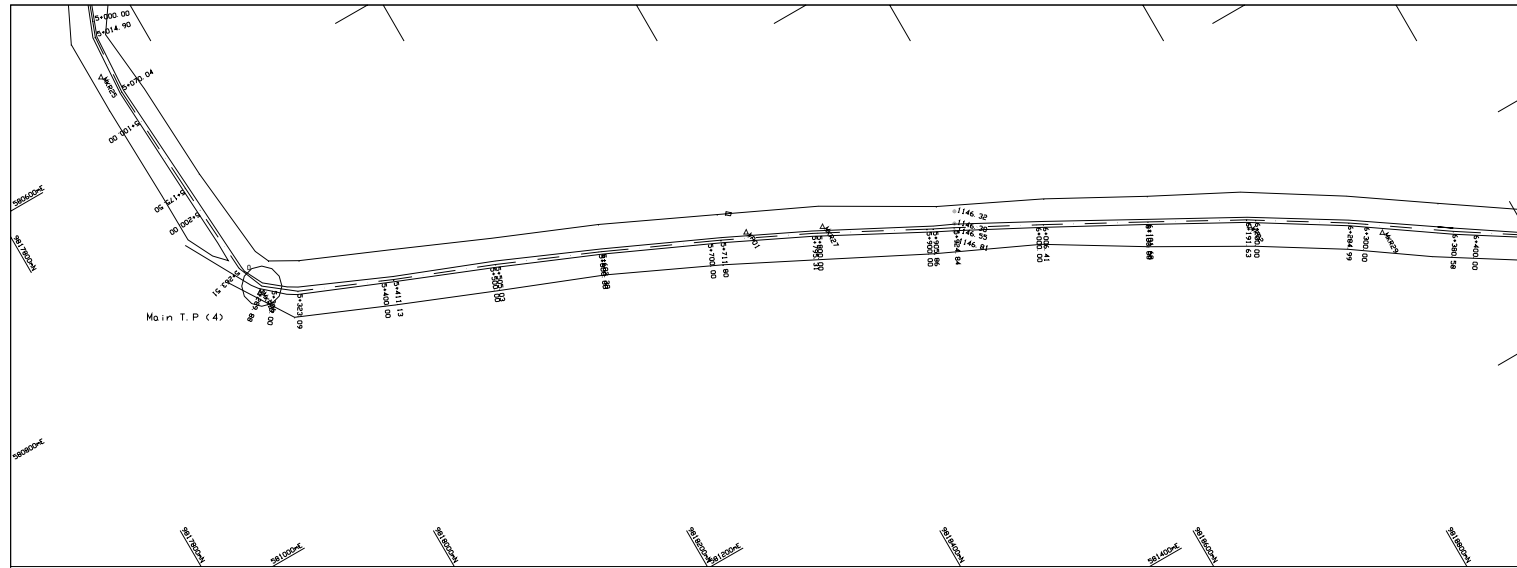
Station	4+000.00	4+018.32	4+100.00	4+126.72	4+200.00	4+225.13	4+295.56	4+325.00	4+350.00	4+380.00	4+400.00	4+425.00	4+450.00	4+480.00	4+500.00
Natural surface	1145.296	1145.300	1145.153	1145.105	1144.243	1144.619	1144.268	1143.728	1143.360	1144.118	1144.127	1144.297	1144.278	1144.273	1144.260

Longitudinal section between 4+000.00 and 5+000.00

Client: KOKUSAI KOGYO CO. LTD
 2 Rokusen, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GED-HYDRO CONSULTANTS LTD
 P. O. Box 04478 Tel: +255 748 499 505
 Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment.	By.	Date
	Design		
	Drawn		
	Checked		
	Approved		
 Date: 19 April 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 MKIRIRA PIPED SCHEME			
Scale:	HZ 1:2000	Revision:	
	VT 1:1000		
Job No:	MKA	Drawing No:	05



Level for Main T.P. (4)

Station	Level
5+000.00	1144.802
5+014.90	1144.821
5+070.04	1145.824
5+100.00	1145.398
5+125.50	1145.796
5+200.00	1145.724
5+303.51	1145.812
5+368.88	1145.927
5+380.00	1145.920
5+323.09	1145.999
5+450.00	1145.986
5+470.00	1146.127
5+500.00	1146.523
5+570.00	1147.857
5+571.80	1148.029
5+575.00	1147.930
5+580.00	1147.930
5+585.00	1147.930
5+590.00	1147.930
5+595.00	1147.930
5+600.00	1147.930

Longitudinal section between 5+000.00 and 6+000.00

Client:
KOKUSAI KOGYO CO. LTD
 2 Rokusogan, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor:
GEO-HYDRO CONSULTANTS LTD
 P. O. Box 1042/97 Tel: +255 748 490 300
 Dar es Salaam, United Republic of Tanzania

Notes:

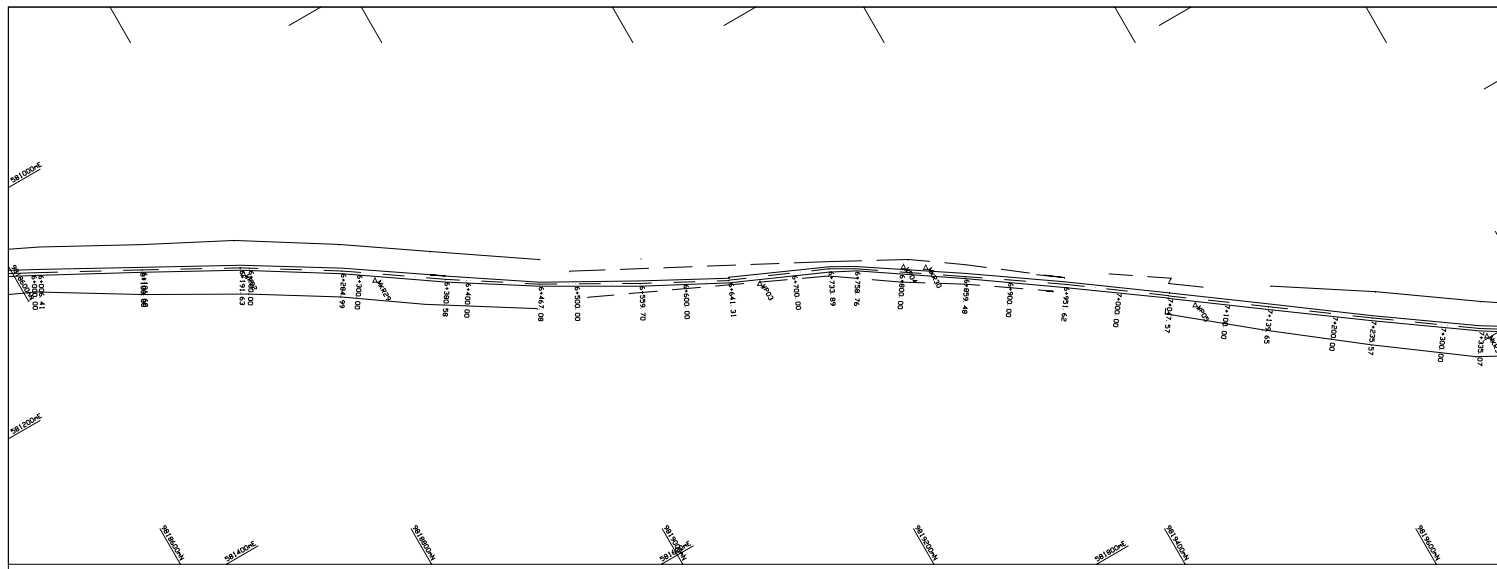
No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
Date: 18 April 2006			

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
 MKIRIRA PIPED SCHEME**

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No.
MKA	06



Station	Natural surface	Proposed pipe
6+000.00	1168.20	1168.20
6+050.00	1168.16	1168.16
6+100.00	1168.00	1168.00
6+150.00	1168.00	1168.00
6+200.00	1168.00	1168.00
6+250.00	1168.00	1168.00
6+300.00	1168.00	1168.00
6+350.00	1168.00	1168.00
6+400.00	1168.00	1168.00
6+450.00	1168.00	1168.00
6+500.00	1168.00	1168.00
6+550.00	1168.00	1168.00
6+600.00	1168.00	1168.00
6+650.00	1168.00	1168.00
6+700.00	1168.00	1168.00
6+750.00	1168.00	1168.00
6+800.00	1168.00	1168.00
6+850.00	1168.00	1168.00
6+900.00	1168.00	1168.00
6+950.00	1168.00	1168.00
7+000.00	1168.00	1168.00

Longitudinal section between 6+000.00 and 7+000.00

Client: KOKUSAI KOGYO CO. LTD
 2-10-10, Roppongi, Minami-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

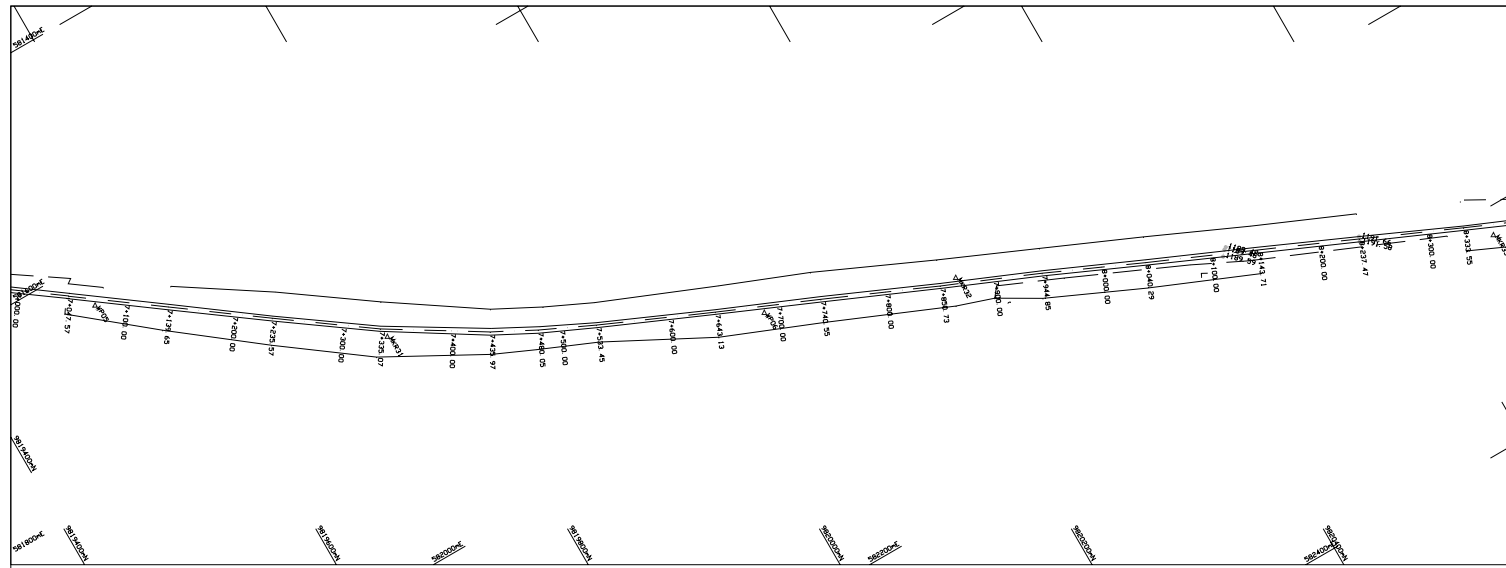
Design
 Drawn
 Checked
 Approved

Date: 18 April 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
 MKIRIRA PIPED SCHEME

Scale	HZ 1:2000 VT 1:1000	Revision
Job ID	MKA	Drawing No. 07



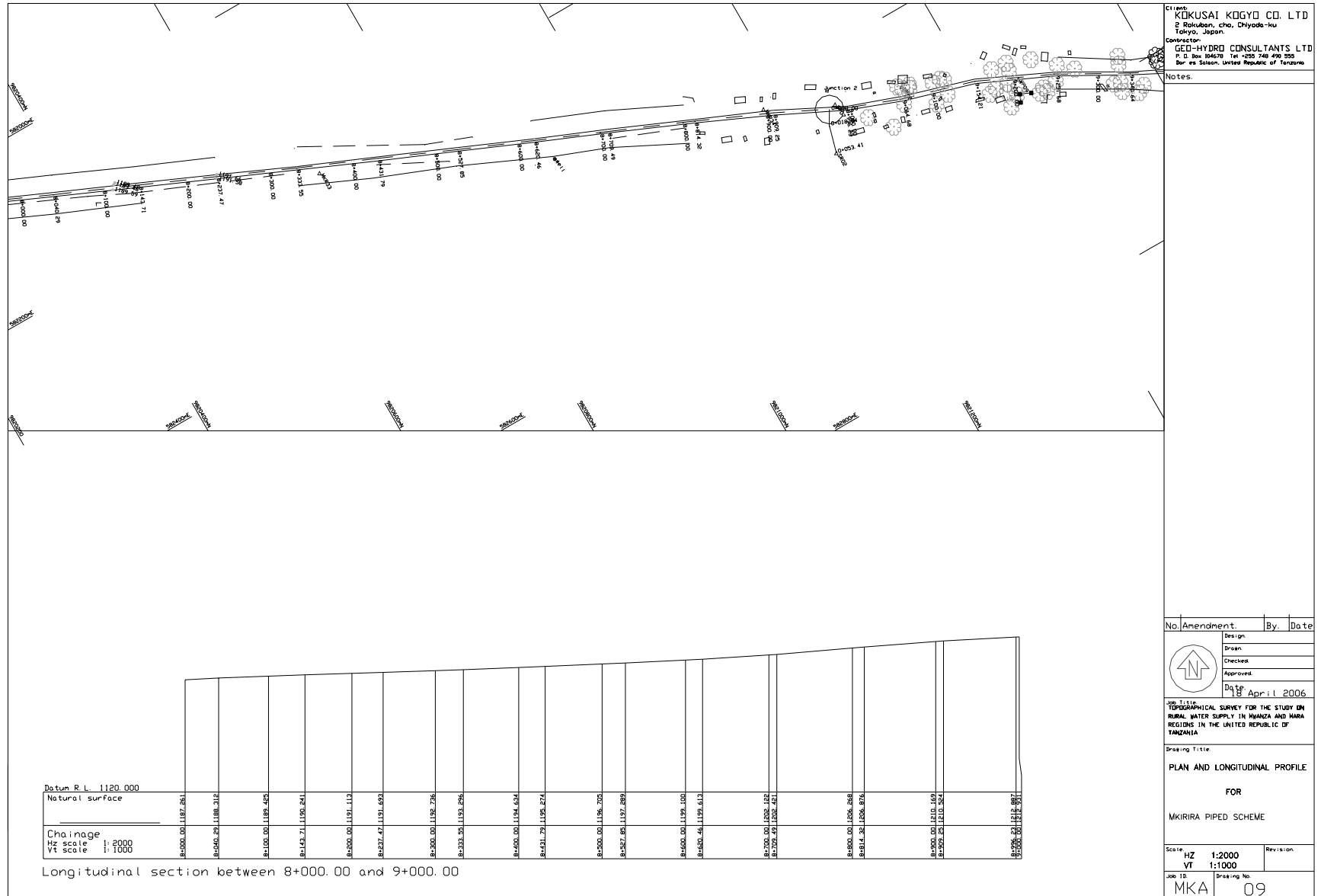
Station	Natural surface	Chainage
7+000.00	1166.482	1166.482
7+025.00	1166.465	1166.465
7+050.00	1166.000	1166.000
7+075.00	1163.376	1163.376
7+100.00	1164.174	1164.174
7+125.00	1164.581	1164.581
7+150.00	1165.719	1165.719
7+175.00	1166.399	1166.399
7+200.00	1167.949	1167.949
7+225.00	1168.841	1168.841
7+250.00	1170.206	1170.206
7+275.00	1170.901	1170.901
7+300.00	1172.016	1172.016
7+325.00	1172.908	1172.908
7+350.00	1175.876	1175.876
7+375.00	1178.142	1178.142
7+400.00	1179.798	1179.798
7+425.00	1181.989	1181.989
7+450.00	1183.101	1183.101
7+475.00	1184.549	1184.549
7+500.00	1185.882	1185.882
7+525.00	1187.261	1187.261

Longitudinal section between 7+000.00 and 8+000.00

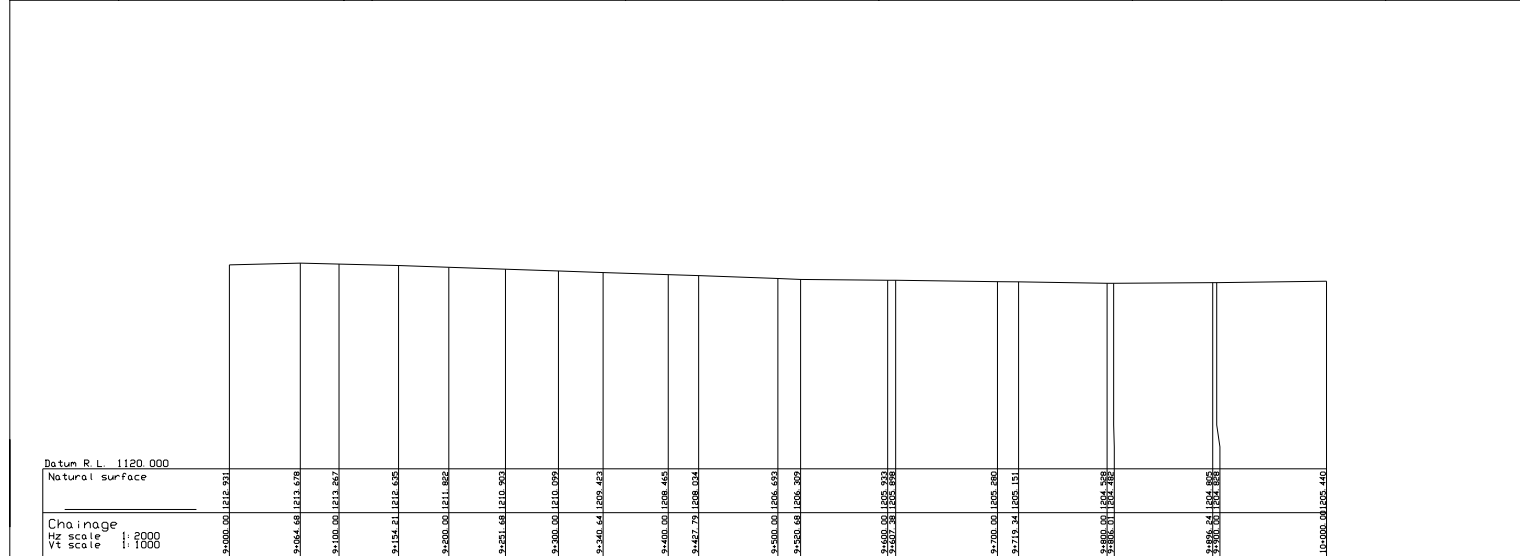
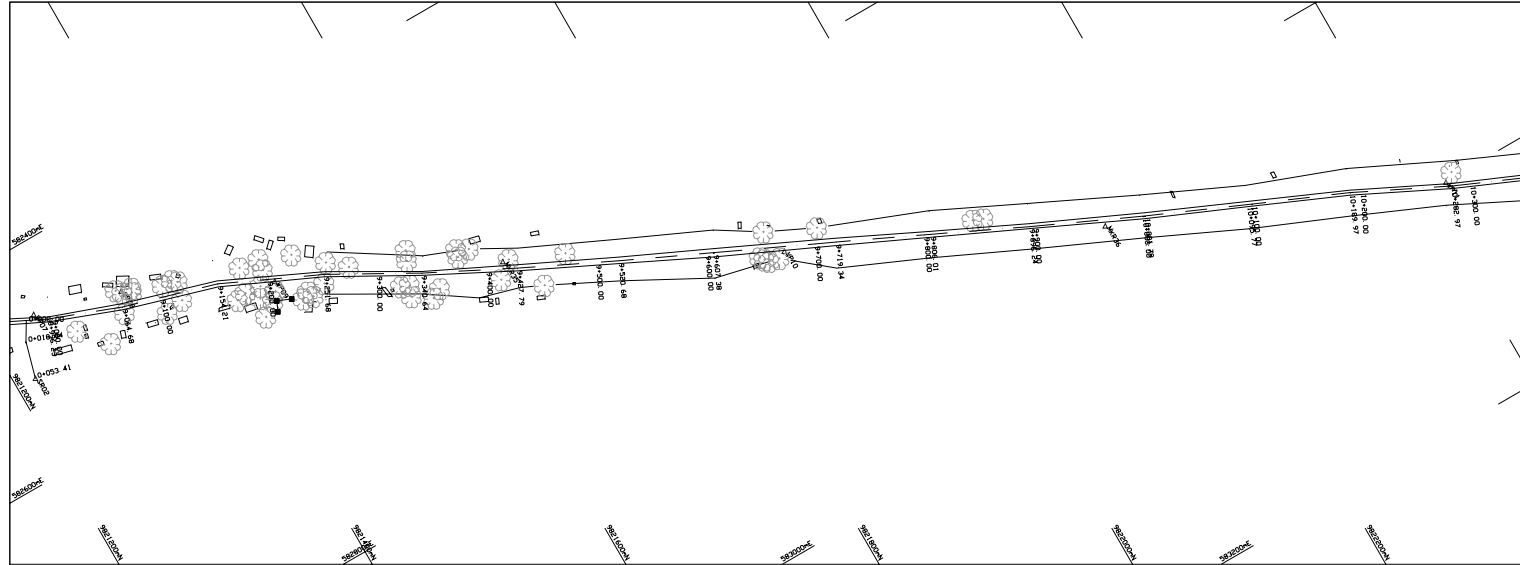
Client: KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GEO-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 555
 Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
Date: 18 April 2006			
Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN WANJA AND MWAHA REGIONS IN THE UNITED REPUBLIC OF TANZANIA			
Drawing Title: PLAN AND LONGITUDINAL PROFILE			
FOR MKIRIRA PIPED SCHEME			
Scale:	HZ 1:2000	Revision:	
	VT 1:1000		
Job No:	MKA	Drawing No:	08



Survey Drawings Mkirira 9




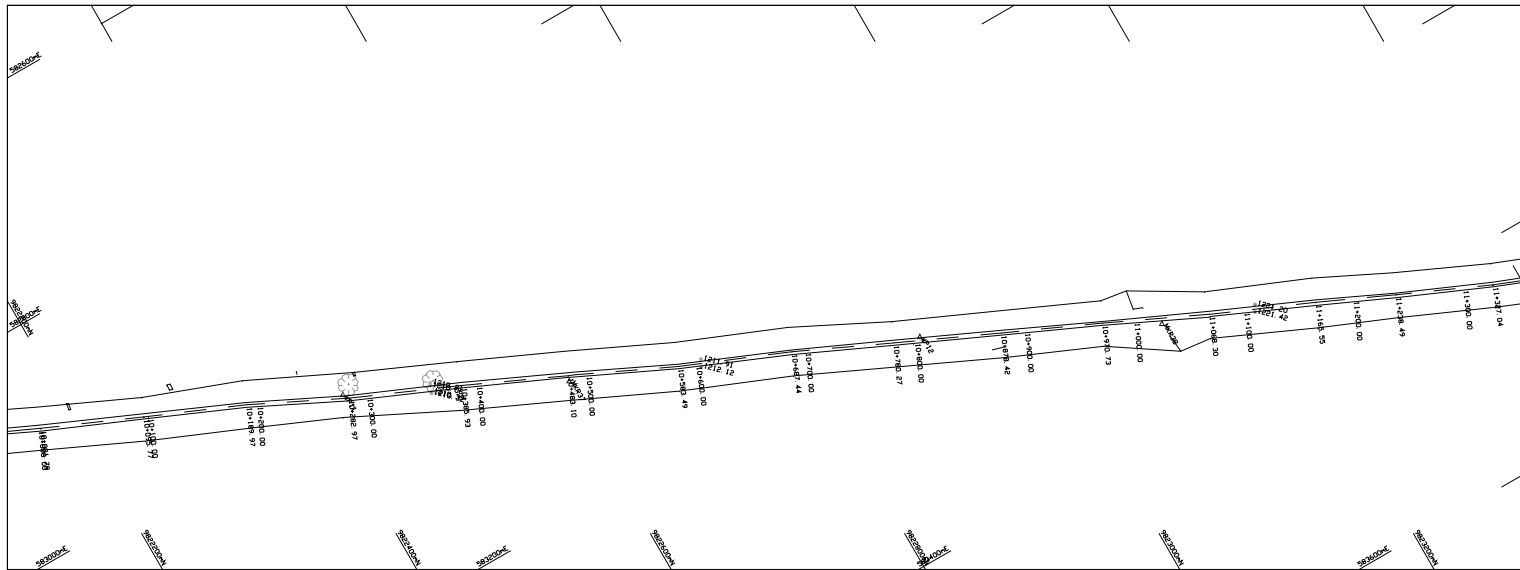
Station	9+000.00	9+050.00	9+100.00	9+150.00	9+200.00	9+250.00	9+300.00	9+350.00	9+400.00	9+450.00	9+500.00	9+550.00	9+600.00	9+650.00	9+700.00	9+750.00	9+800.00	9+850.00	9+900.00	10+000.00
Natural surface	1212.931	1213.678	1213.267	1212.695	1211.882	1210.903	1210.099	1209.423	1208.461	1208.024	1206.692	1206.309	1205.933	1205.898	1204.280	1203.131	1202.782	1204.805	1204.888	1202.440

Longitudinal section between 9+000.00 and 10+000.00

Client: KOKUSAI KOGYO CO. LTD
 2-1-1, Roppongi, Chiyoda-ku, Tokyo, Japan
 Contractor: GED-HYDRO CONSULTANTS LTD
 P. O. Box 904678 Tel: +255 748 490 333
 Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
 13 April 2006			
TECHNICAL 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			
MKIRIRA PIPED SCHEME			
Scale:	HZ 1:2000	Revision:	
	VT 1:1000		
Job ID:	MKA	Drawing No:	10



Station	Natural surface	Proposed pipe
10+000.00	91.392	91.392
10+050.00	91.392	91.392
10+100.00	91.392	91.392
10+150.00	91.392	91.392
10+200.00	91.392	91.392
10+250.00	91.392	91.392
10+300.00	91.392	91.392
10+350.00	91.392	91.392
10+400.00	91.392	91.392
10+450.00	91.392	91.392
10+500.00	91.392	91.392
10+550.00	91.392	91.392
10+600.00	91.392	91.392
10+650.00	91.392	91.392
10+700.00	91.392	91.392
10+750.00	91.392	91.392
10+800.00	91.392	91.392
10+850.00	91.392	91.392
10+900.00	91.392	91.392
10+950.00	91.392	91.392
11+000.00	91.392	91.392

Batum R.L. 1120.000
 Natural surface
 Chainage
 Hz scale 1:2000
 Vt scale 1:1000

Longitudinal section between 10+000.00 and 11+000.00

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

Notes:

No.	Amendment	By	Date

	Design
	Drawn
	Checked
	Approved
Date	18 April 2006

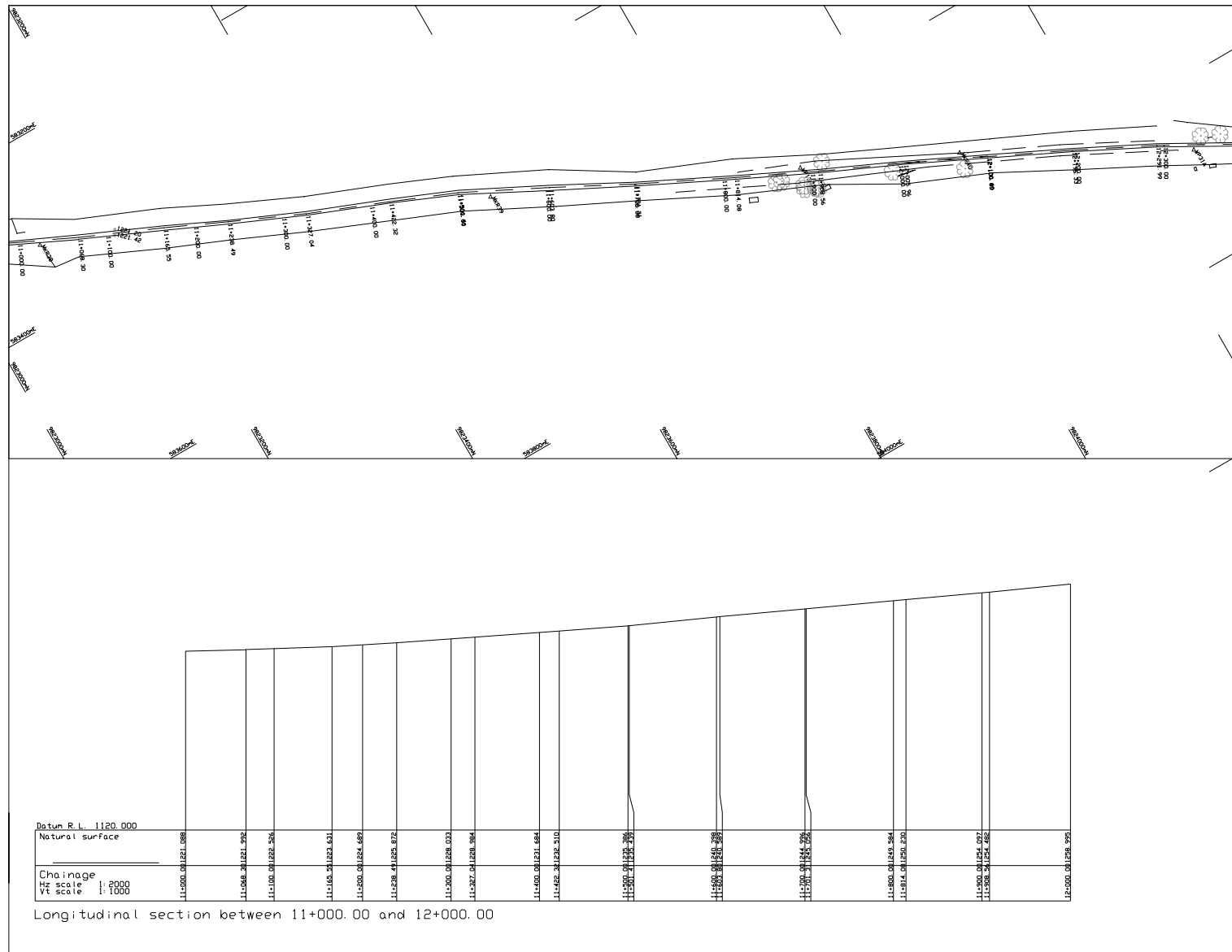
Job Title: TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN Mwanza AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA

Drawing Title: PLAN AND LONGITUDINAL PROFILE

FOR MKIRIRA PIPED SCHEME

Scale	HZ 1:2000	Revision
	VT 1:1000	

Job ID	MKA	Drawing No.	11
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Client: KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GEO-HYDRO CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 748 490 555
 Box 49, Sisoni, United Republic of Tanzania

Notes:

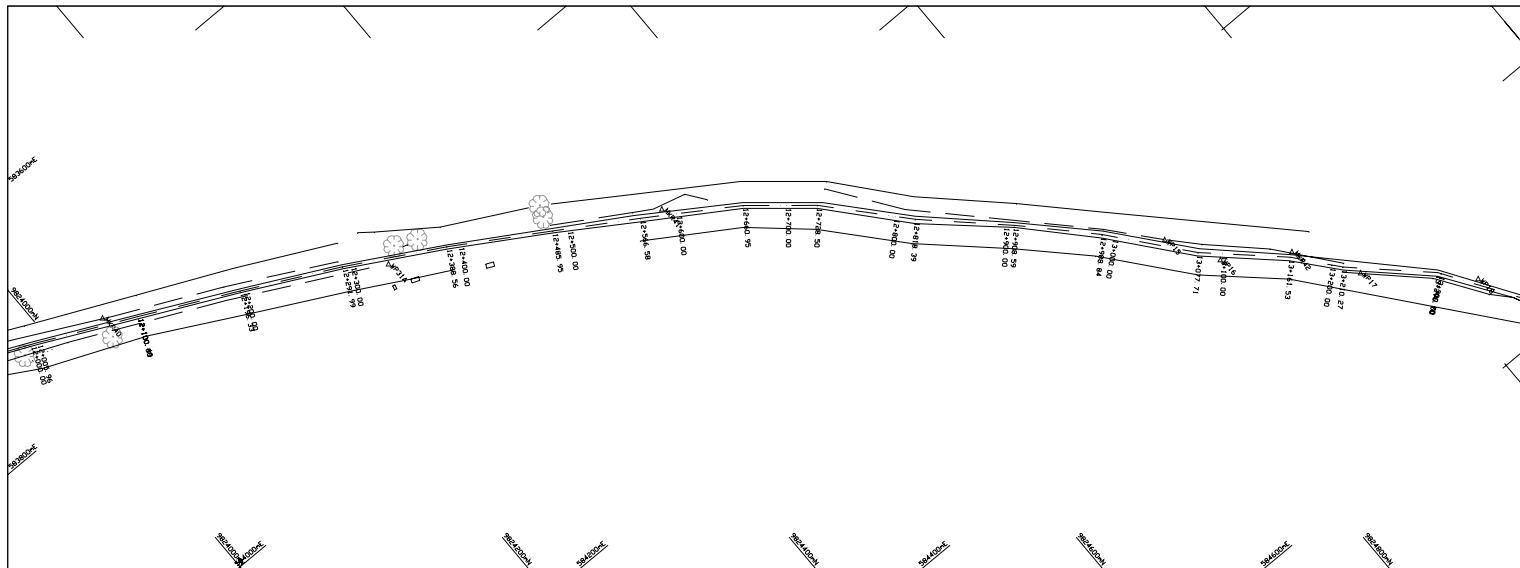
No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date	18 April 2006	

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 MKIRIRA PIPED SCHEME

Scale	HZ 1:2000	Revision
	VT 1:1000	
Job ID	MKA	Drawing No. 12

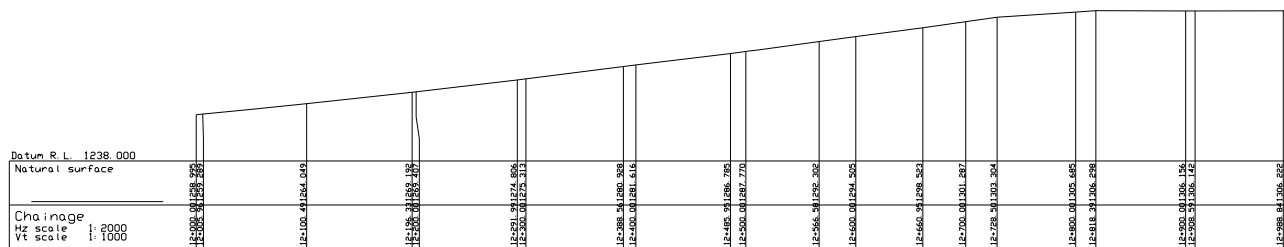
Survey Drawings Mkirira 12



Datum R.L. 1238.000
Natural surface

Chainage
Hz scale 1:2000
Vt scale 1:1000

Longitudinal section between 12+000.00 and 13+000.00



Client: **KOKUSAI KOGYO CO. LTD**
2 Rokuson, cho, Chiyoda-ku
Tokyo, Japan.
Contractor: **GEI-HYDRO CONSULTANTS LTD**
P. O. Box 104670 Tel: +255 748 490 595
Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		18 April 2006

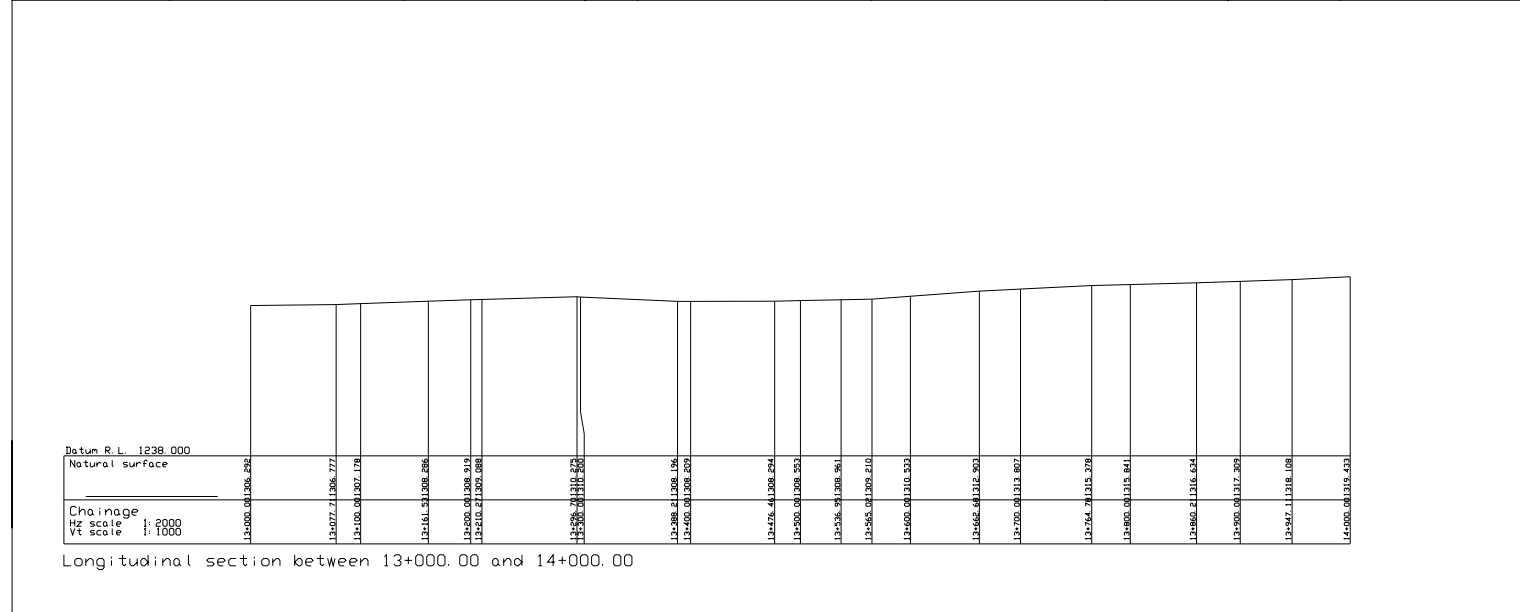
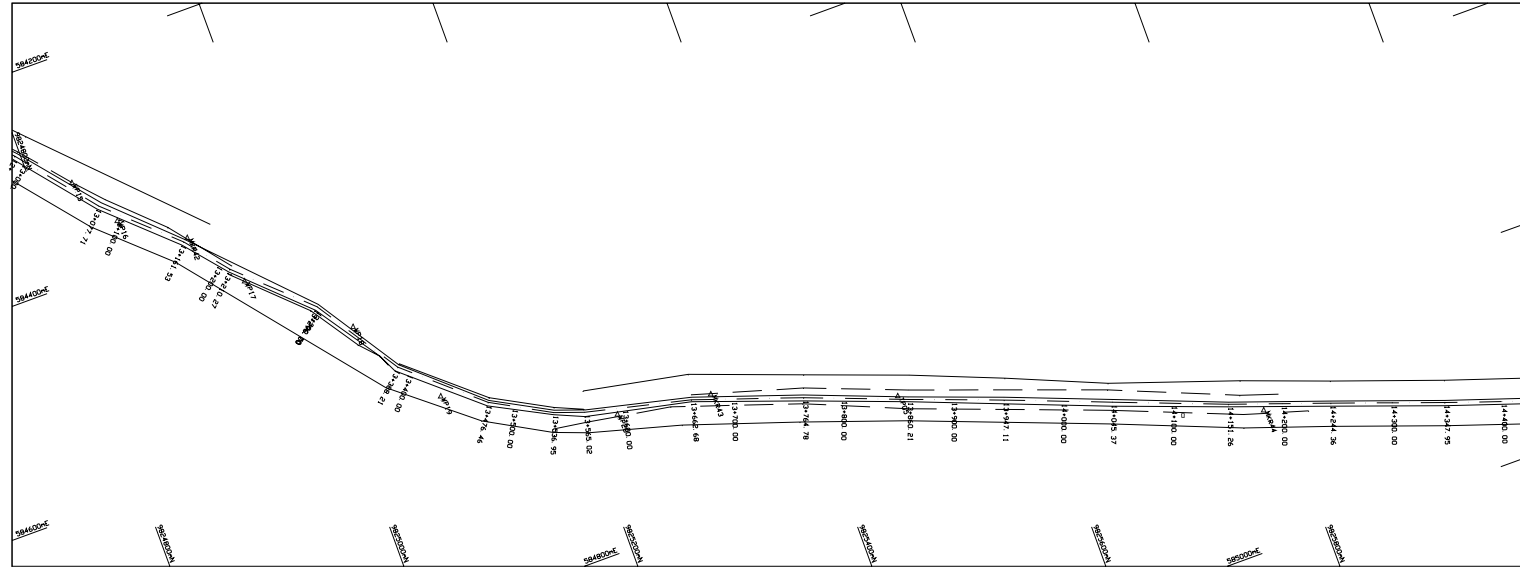
Job Title: **TOPOGRAPHICAL SURVEY FOR THE STUDY ON RURAL WATER SUPPLY IN MWANZA AND MARA REGIONS IN THE UNITED REPUBLIC OF TANZANIA**

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

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No.
MKA	13

Survey Drawings Mkirira 13



Datum R.L. 1238.000
 Natural surface
 Chaining
 HZ scale 1:2000
 VT scale 1:1000

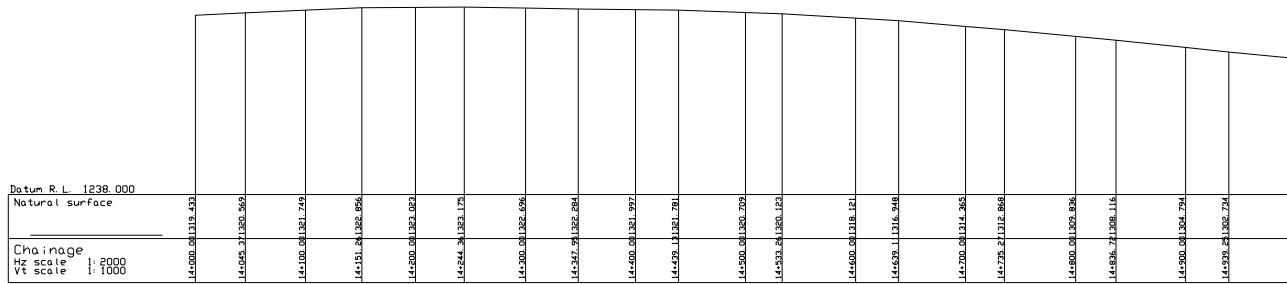
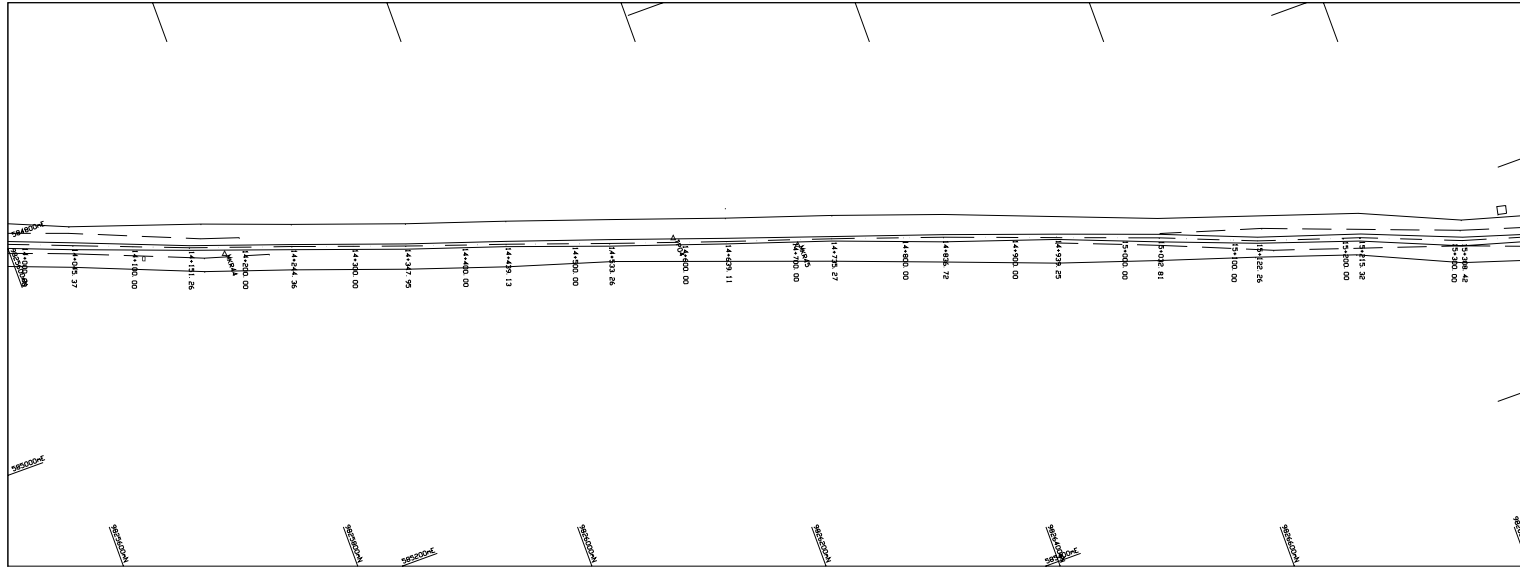
Longitudinal section between 13+000.00 and 14+000.00

Client: KOKUSAI KOGYO CO. LTD
 2-1-1, Honjoh, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GEO-HYDRD CONSULTANTS LTD
 P. O. Box 104678 Tel: +255 746 490 505
 Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment.	By.	Date
	Design		
	Drawn		
	Checked		
	Approved		
Date: 18 April 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 MKIRIRA PIPED SCHEME			
Scale:	HZ 1:2000	VT 1:1000	Revision:
Job ID:	MKA	Drawing No:	14

Survey Drawings Mkirira 14



Longitudinal section between 14+000.00 and 15+000.00

Datum R.L. 1238.000

Natural surface

Chainage
 HZ scale 1:2000
 VT scale 1:1000

Client: **KOKUSAI KOGYO CO. LTD**
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: **GEO-HYDRO CONSULTANTS LTD**
 P. O. Box 104578 Tel: +255 746 490 225
 Mor vs Saloon, United Republic of Tanzania

Notes:

No.	Amendment	By	Date

Design	
Drawn	
Checked	
Approved	
Date	18 April 2006

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

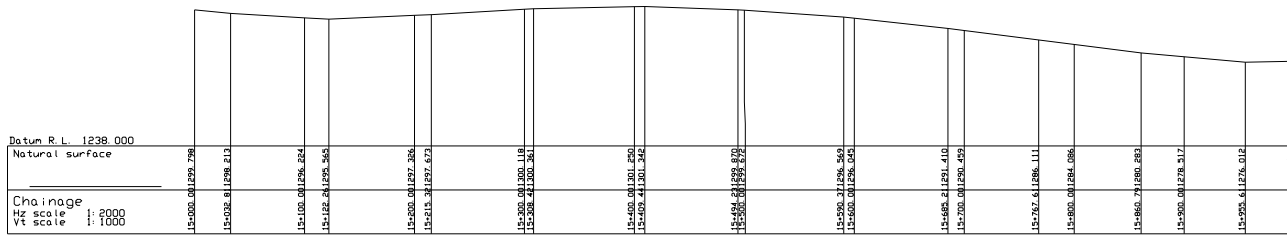
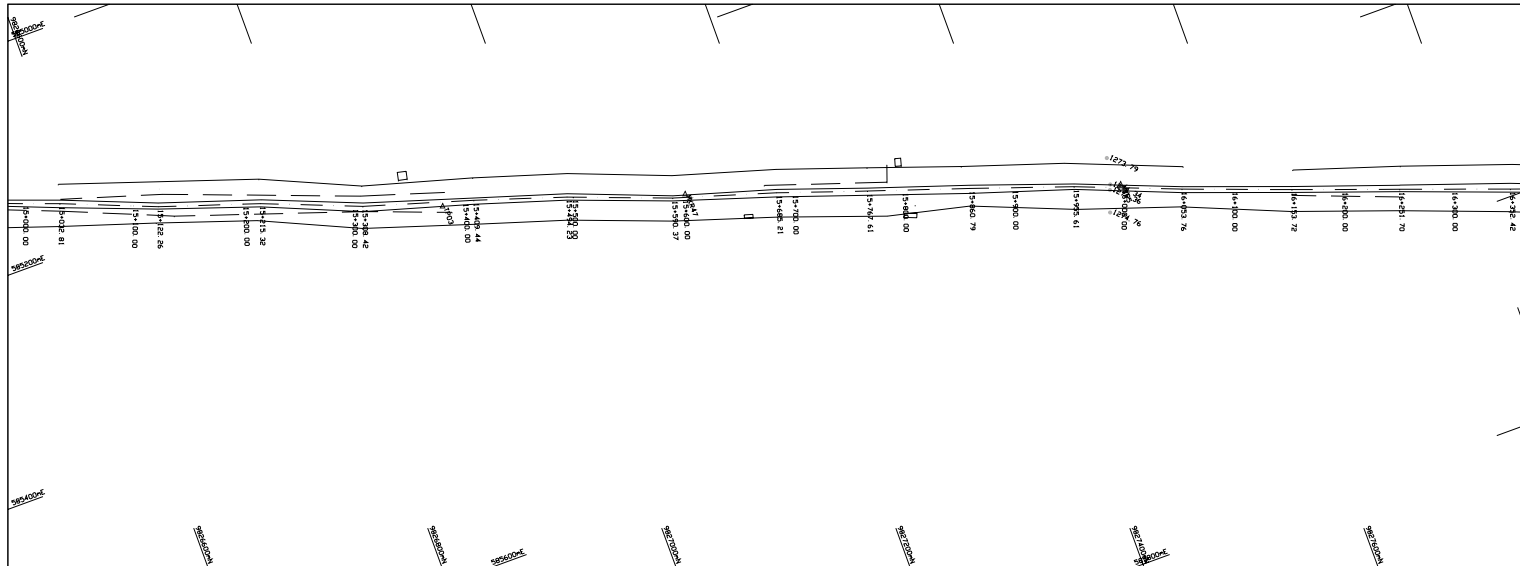
Drawing Title

PLAN AND LONGITUDINAL PROFILE

FOR
MKIRIRA PIPED SCHEME

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	MKA
Drawing No	15



Longitudinal section between 15+000.00 and 16+000.00

Datum R.L. 1238.000


Natural surface

Chainage
 HZ scale : 2000
 VT scale : 1000

Client:
KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor:
GEO-HYDRO CONSULTANTS LTD
 P. O. Box 004678 Tel: +255 716 490 305
 Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date: 12 April 2006		

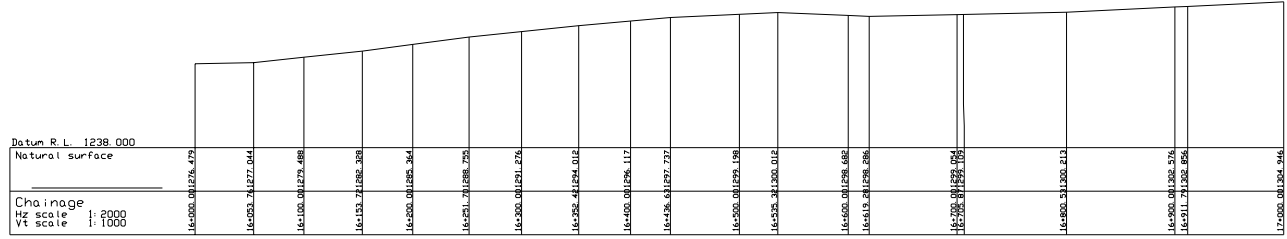
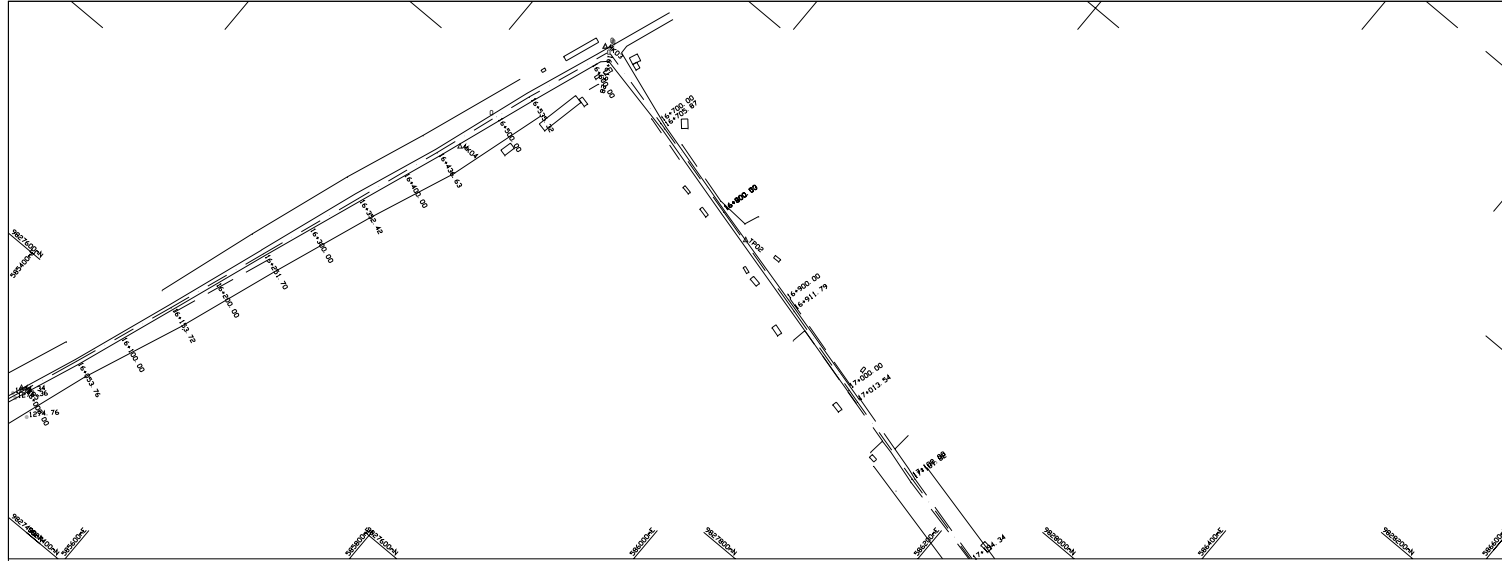


Job Title:
**TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN MWANZA AND MARA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA**

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

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID	Drawing No.
MKA	16



Longitudinal section between 16+000.00 and 17+000.00

Client:
KOKUSAI KOGYO CO. LTD
 2 Rokubun, cho, Chiyoda-ku
 Tokyo, Japan
 Contractor:
GED-HYDRO CONSULTANTS LTD
 P. O. Box 66478 1st. Floor 1st Floor 200
 Dar es Salaam, United Republic of Tanzania

Notes:

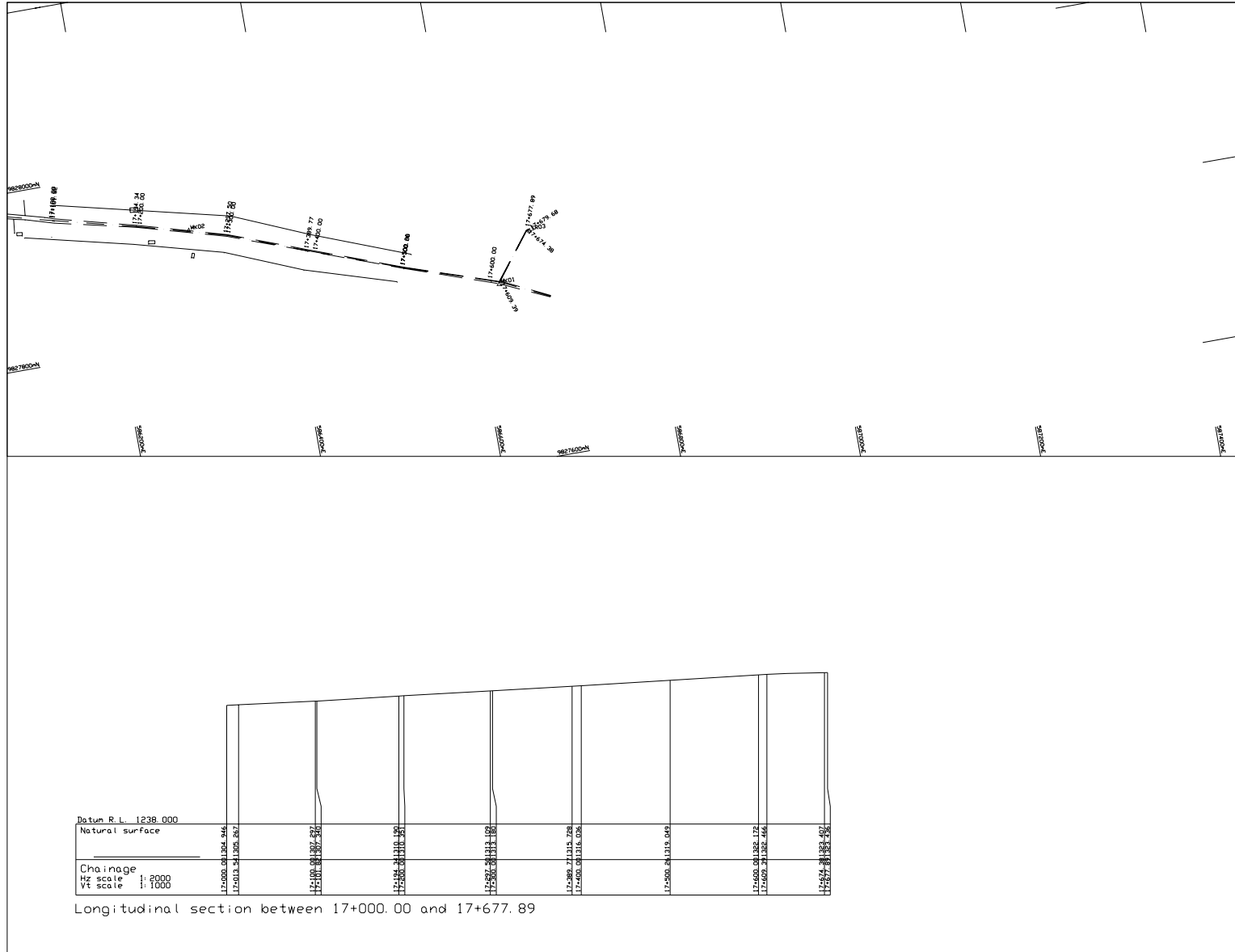
No. Amendment	By	Date
	Design	
	Drawn	
	Checked	
	Approved	
	Date	18 April 2006

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

Drawing Title:
PLAN AND LONGITUDINAL PROFILE FOR MKIRIRA PIPED SCHEME

Scale:
 HZ 1:2000
 VT 1:1000

Revision:
 Job ID: MKA
 Drawing No: 17



Client:
KIKUSAI KOGYO CO. LTD
 5 Rikusen, cho, Chiyoda-ku
 Tokyo, Japan.

Contractor:
GEO-HYDRO CONSULTANTS LTD
 P. O. Box 04678 Tel: +255 748 490 535
 Dar es Salaam, United Republic of Tanzania

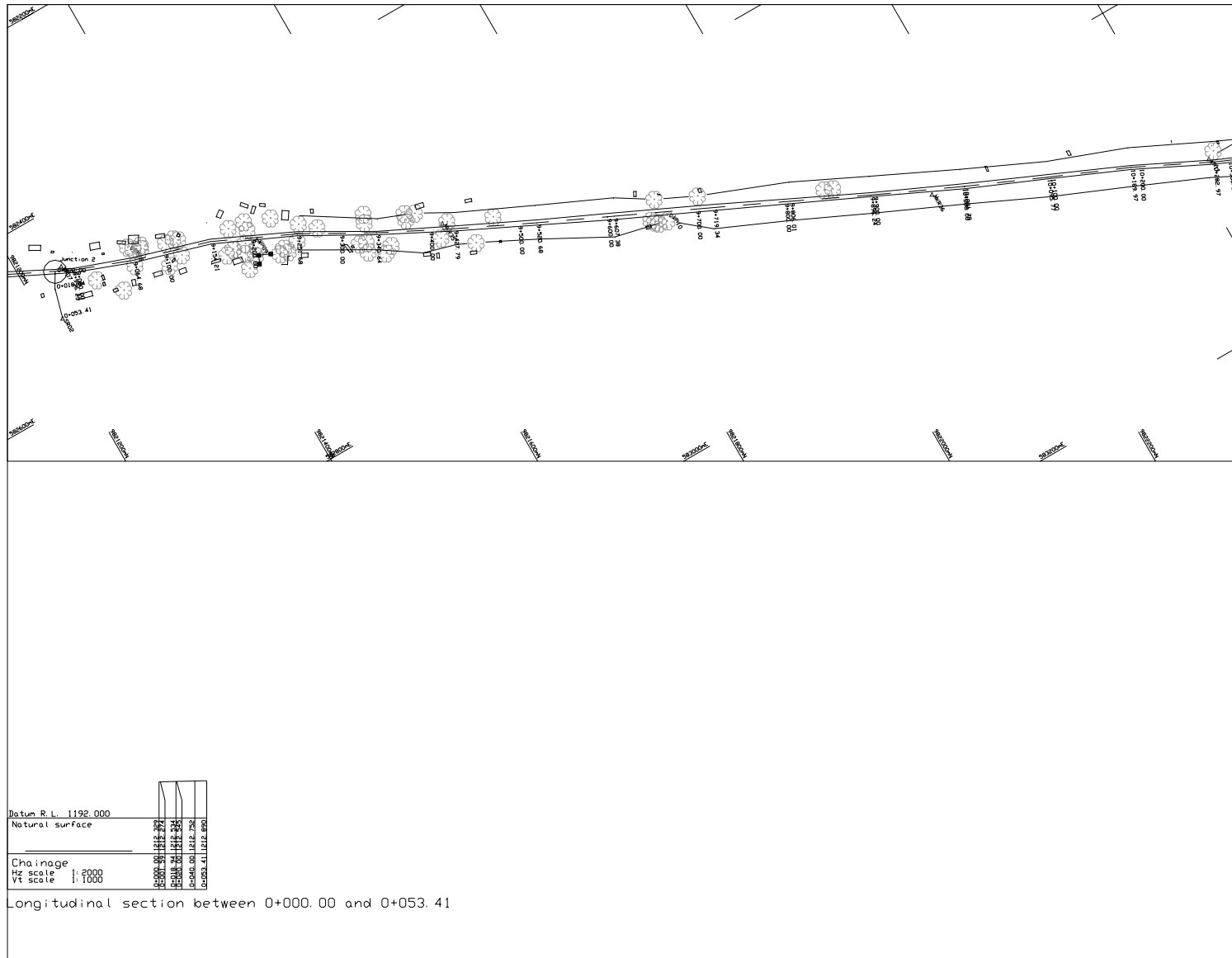
Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date		18 April 2006

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

Drawing Title:
PLAN AND LONGITUDINAL PROFILE FOR MKIRIRA PIPED SCHEME

Scale:	HZ 1:2000	Revision:	
	VT 1:1000		
Job ID:	MKA	Drawing No.:	18



Client: KOKUSAI KOGYO CO. LTD
 2 Rokuban, cho, Chiyoda-ku
 Tokyo, Japan.
 Contractor: GED-HYDRO CONSULTANTS LTD
 P. O. Box 184670, Tel: +255 748 490 505
 Dar es Salaam, United Republic of Tanzania

Notes:

No.	Amendment	By	Date
	Design		
	Drawn		
	Checked		
	Approved		
	Date: 18 April 2006		

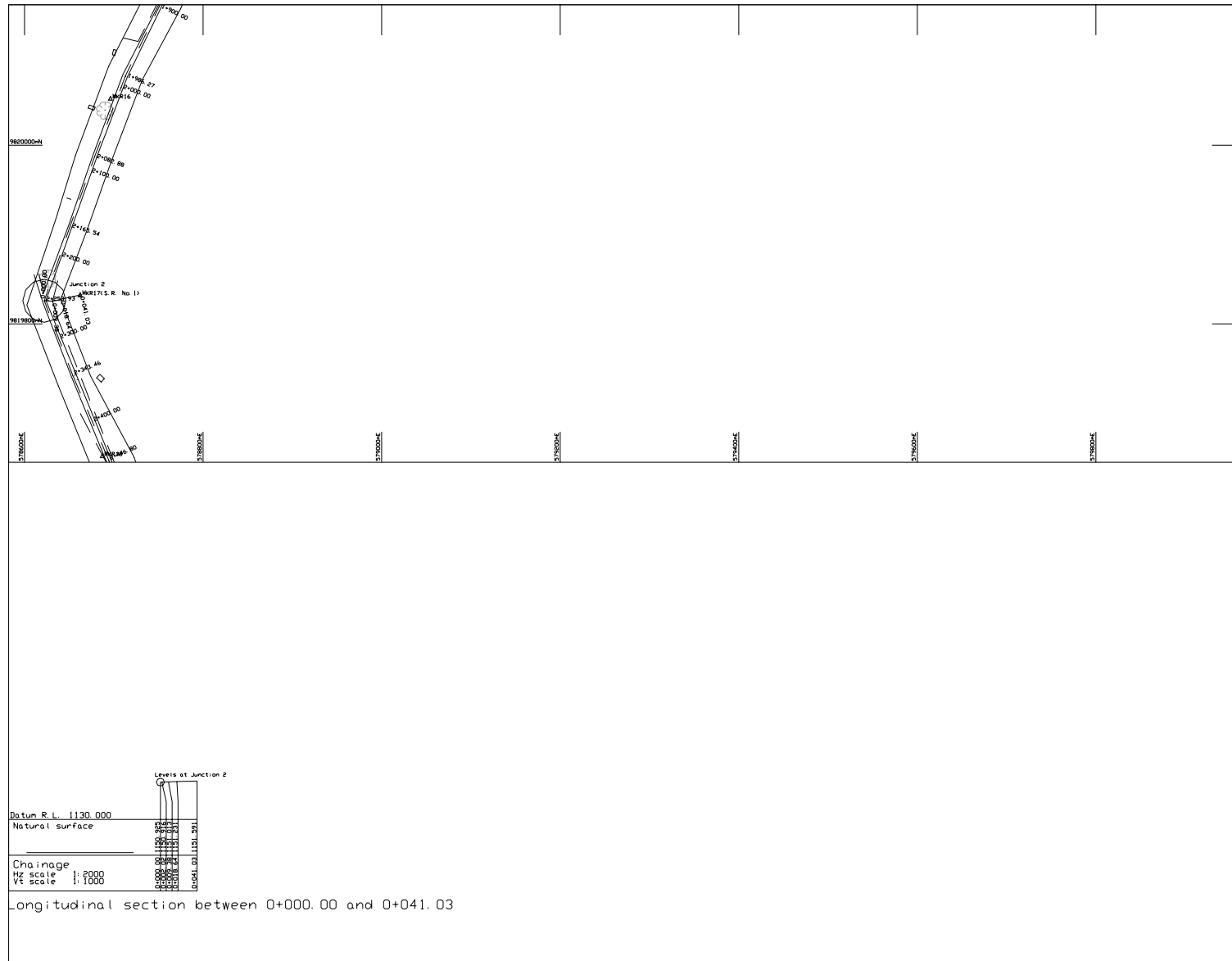
Job Title:
 TOPOGRAPHICAL SURVEY FOR THE STUDY ON
 RURAL WATER SUPPLY IN NGAHA AND MABA
 REGIONS IN THE UNITED REPUBLIC OF
 TANZANIA

Drawing Title:
 PLAN AND LONGITUDINAL PROFILE
 FOR
 MKIRIRA PIPED SCHEME

Scale	Revision
HZ 1:2000	
VT 1:1000	

Job ID: MKA
 Drawing No: 20

Survey Drawings Mkirira 19



Levels at Junction 2

Datum R.L. 1130.000	1130.00
Natural surface	1128.27
	1128.00
	1127.88
	1127.60
	1127.54
	1127.00
	1126.46
	1126.00

Chainage
 HZ scale 1:2000
 VT scale 1:1000

Longitudinal section between 0+000.00 and 0+041.03

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No. Amendment	By	Date
Design		
Drawn		
Checked		
Approved		
Date	21 April 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 MKIRIRA PIPED SCHEME		
Scale	HZ 1:2000 VT 1:1000	Revision
Job ID	MKA	Drawing No. 30