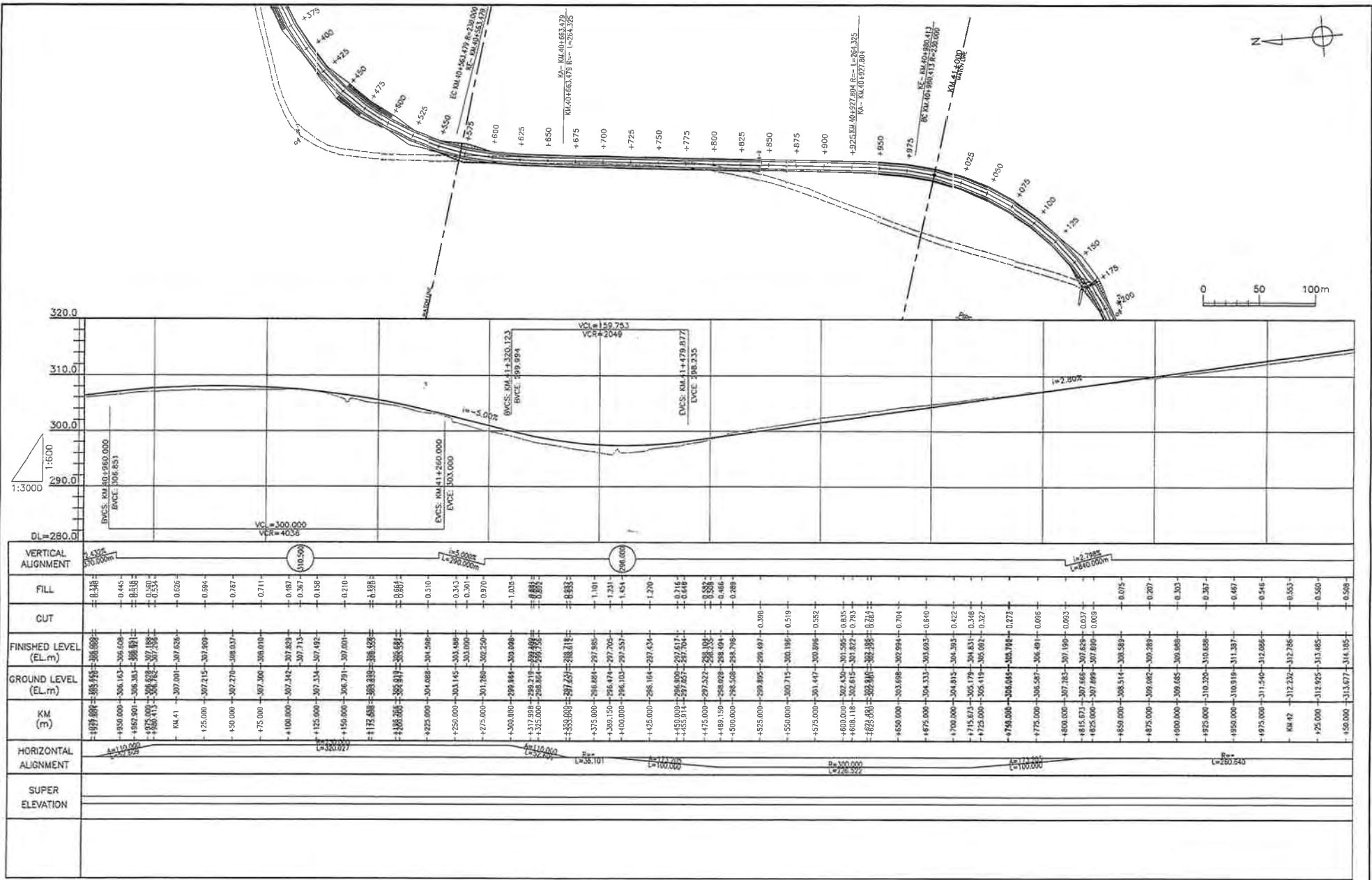
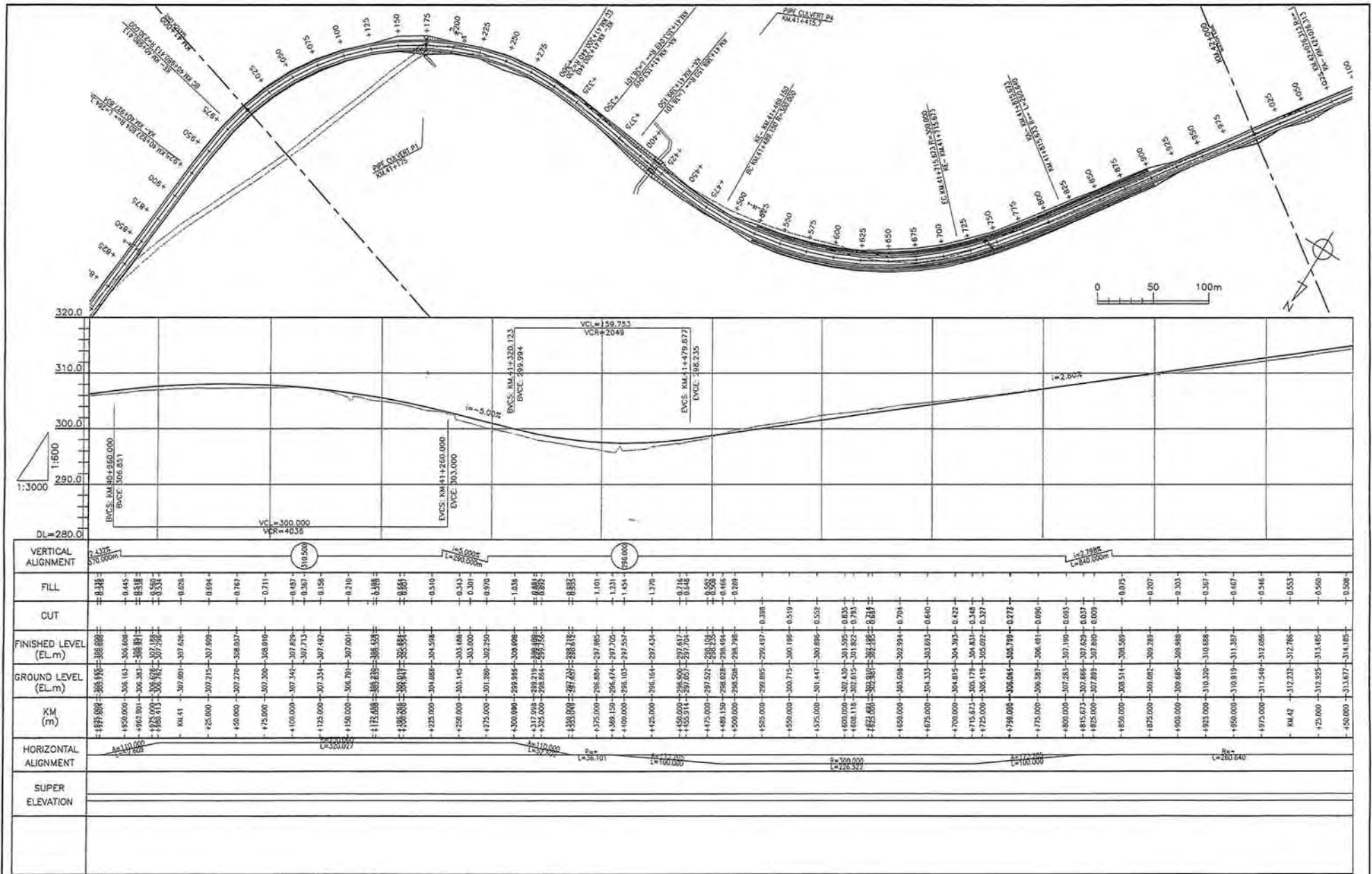


<ul style="list-style-type: none"> The Ministry of Infrastructure Development of United Republic of Tanzania Japan International Cooperation Agency 	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	Date: Mar. 2007	DRAWING No.:
	Construction Project Consultants, Inc. (CPC)	The Project for Upgrading Masasi-Mangaka Road	PLAN & PROFILE(41/56)	Prepared by:	MR DD E-41
				Checked by:	

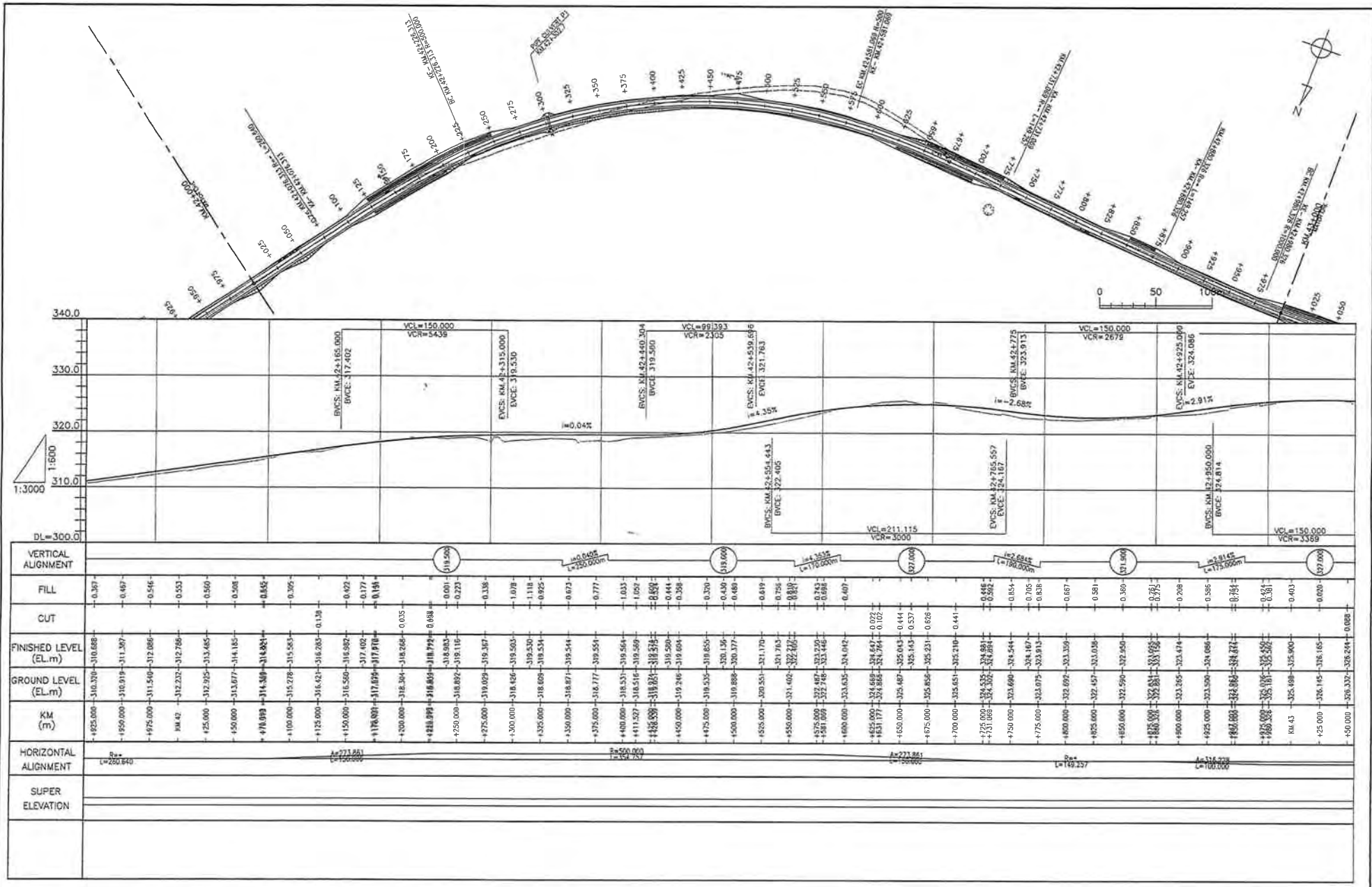


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- Japan International Cooperation Agency

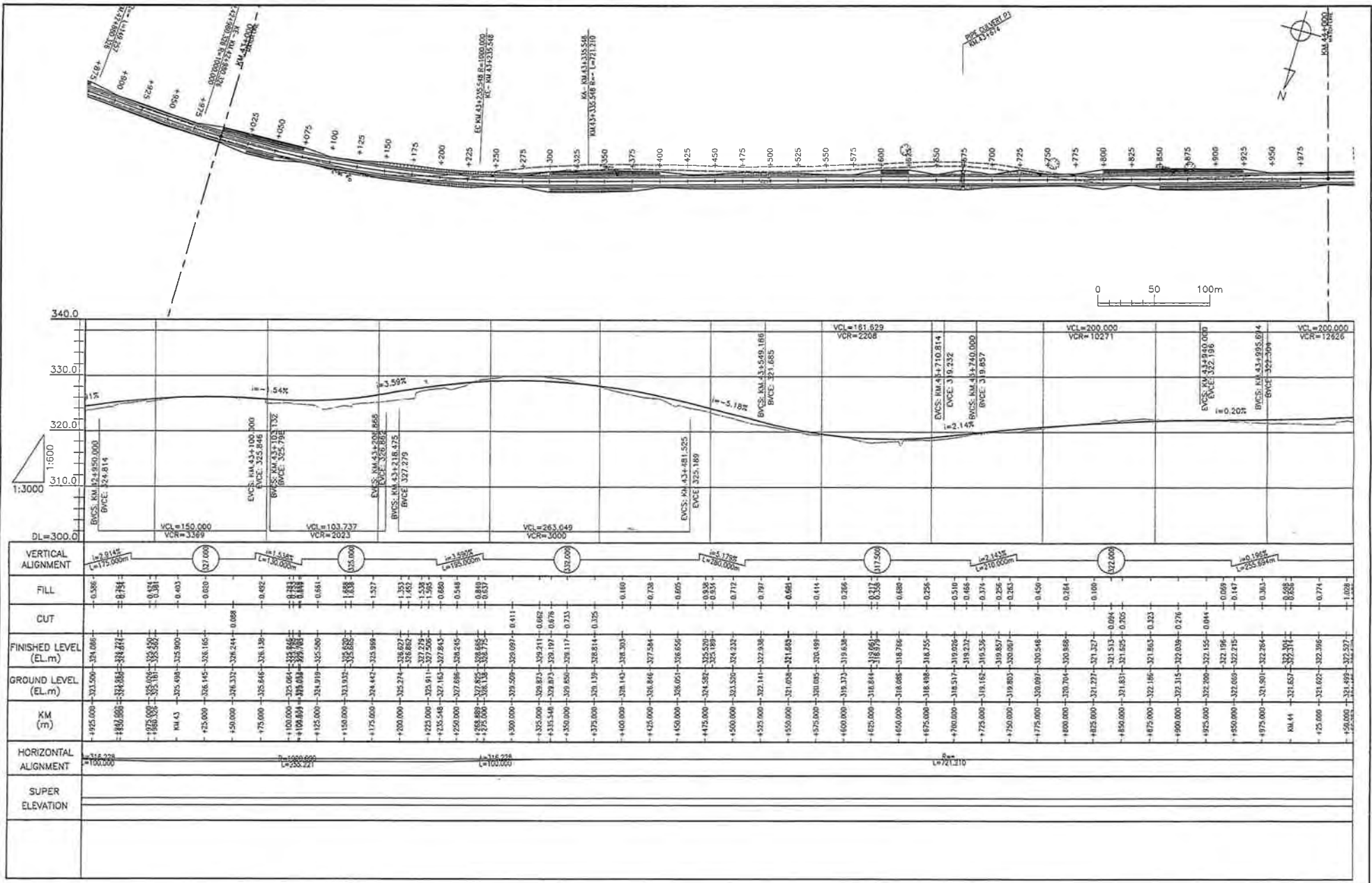
CONSULTANTS: Construction Project Consultants, Inc. (CPC)	PROJECT NAME: The Project for Upgrading Masasi-Mangaka Road	DRAWING TITLE: PLAN & PROFILE(42/56)	Date: Mar. 2007	DRAWING No.: MR DD E-42
			Prepared by:	
			Checked by:	



<ul style="list-style-type: none"> The Ministry of Infrastructure Development of United Republic of Tanzania Japan International Cooperation Agency 	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	Date: Mar. 2007	DRAWING No.:
	Construction Project Consultants, Inc. (CPC)	The Project for Upgrading Masasi-Mangaka Road	PLAN & PROFILE(43/56)	Prepared by:	MR DD E-43
				Checked by:	



<ul style="list-style-type: none"> The Ministry of Infrastructure Development of United Republic of Tanzania Japan International Cooperation Agency 	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	Date: Mar. 2007	DRAWING No.:
	Construction Project Consultants, Inc. (CPC)	The Project for Upgrading Masasi-Mangaka Road	PLAN & PROFILE(44/56)	Prepared by:	MR DD E-44
				Checked by:	



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- Japan International Cooperation Agency

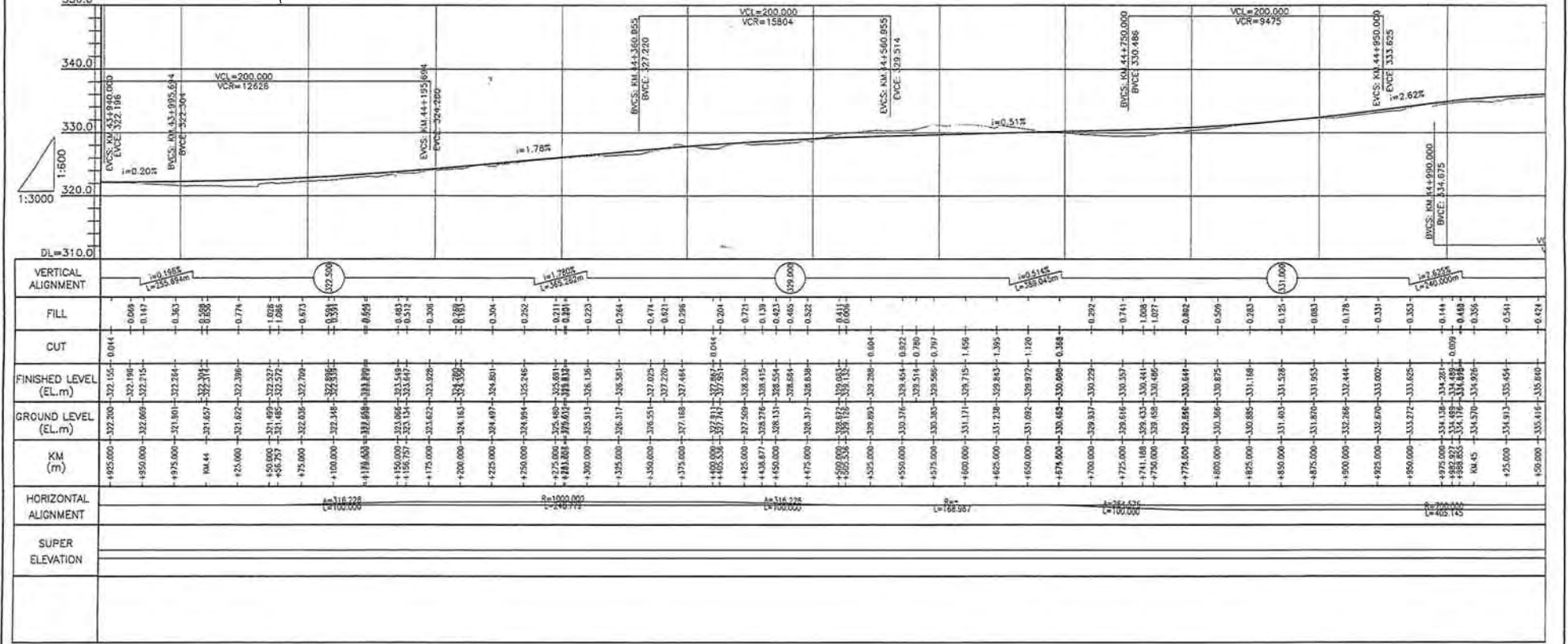
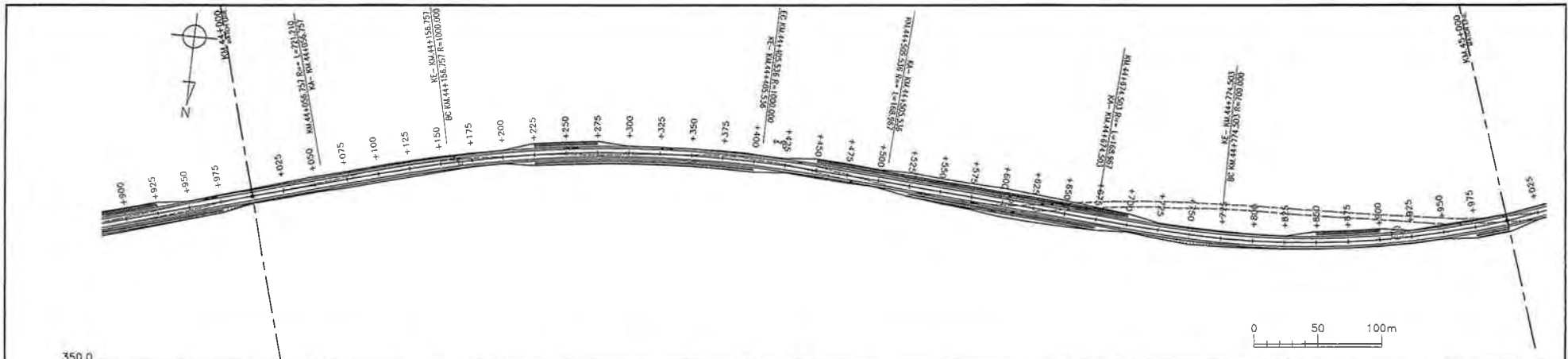
CONSULTANTS:
Construction Project Consultants, Inc. (CPC)

PROJECT NAME:
The Project for Upgrading Masasi-Mangaka Road

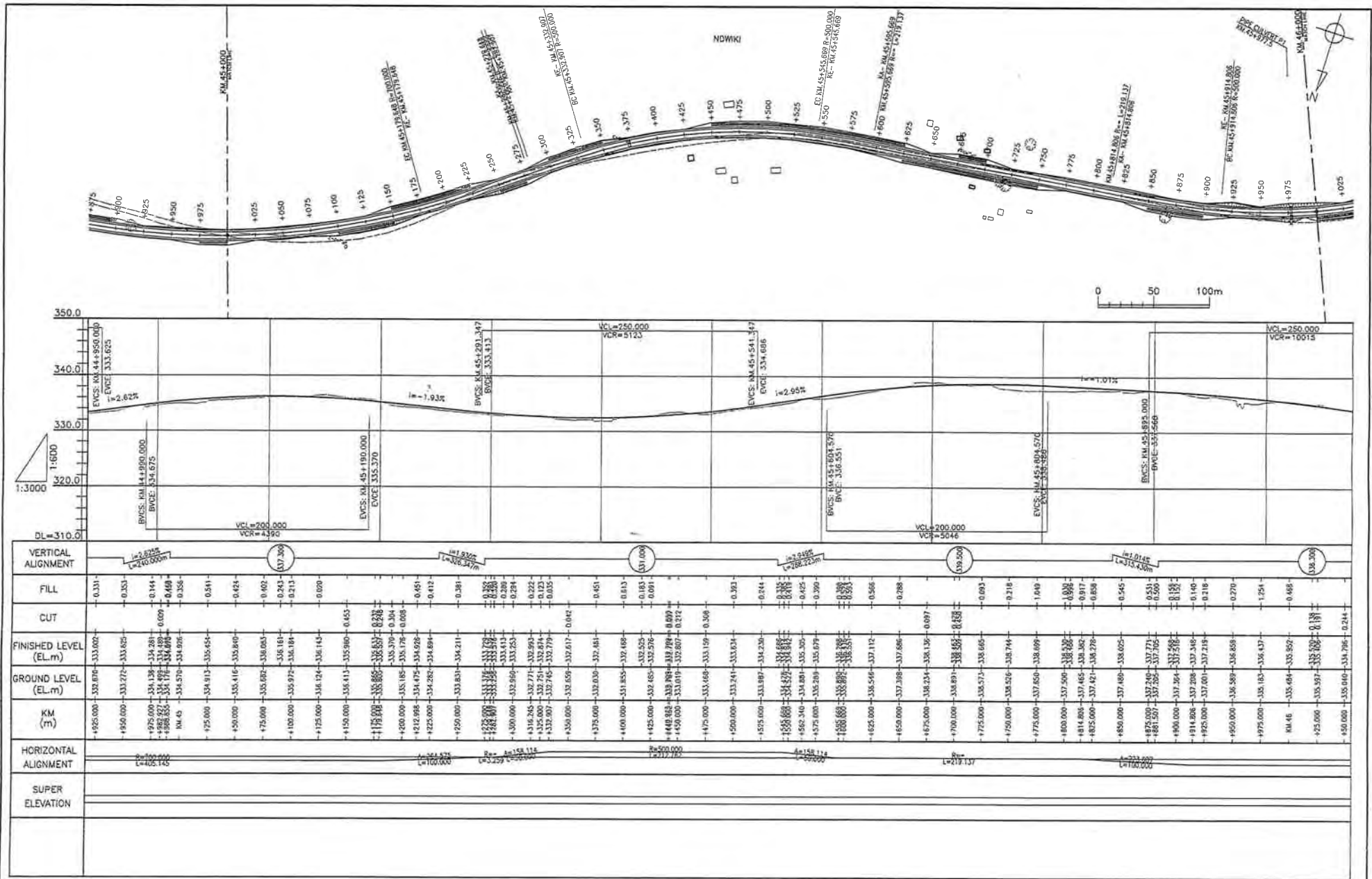
DRAWING TITLE:
PLAN & PROFILE(45/56)

Date: Mar. 2007
Prepared by:
Checked by:

DRAWING No.:
MR DD E-45



<ul style="list-style-type: none"> The Ministry of Infrastructure Development of United Republic of Tanzania Japan International Cooperation Agency 	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	Date: Mar. 2007	DRAWING No.:
	Construction Project Consultants, Inc. (CPC)	The Project for Upgrading Masasi-Mangaka Road	PLAN & PROFILE(46/56)	Prepared by:	MR DD E-46
				Checked by:	



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- Japan International Cooperation Agency

CONSULTANTS:

Construction Project Consultants, Inc. (CPC)

PROJECT NAME:

The Project for Upgrading Masasi-Mangaka Road

DRAWING TITLE:

PLAN & PROFILE(47/56)

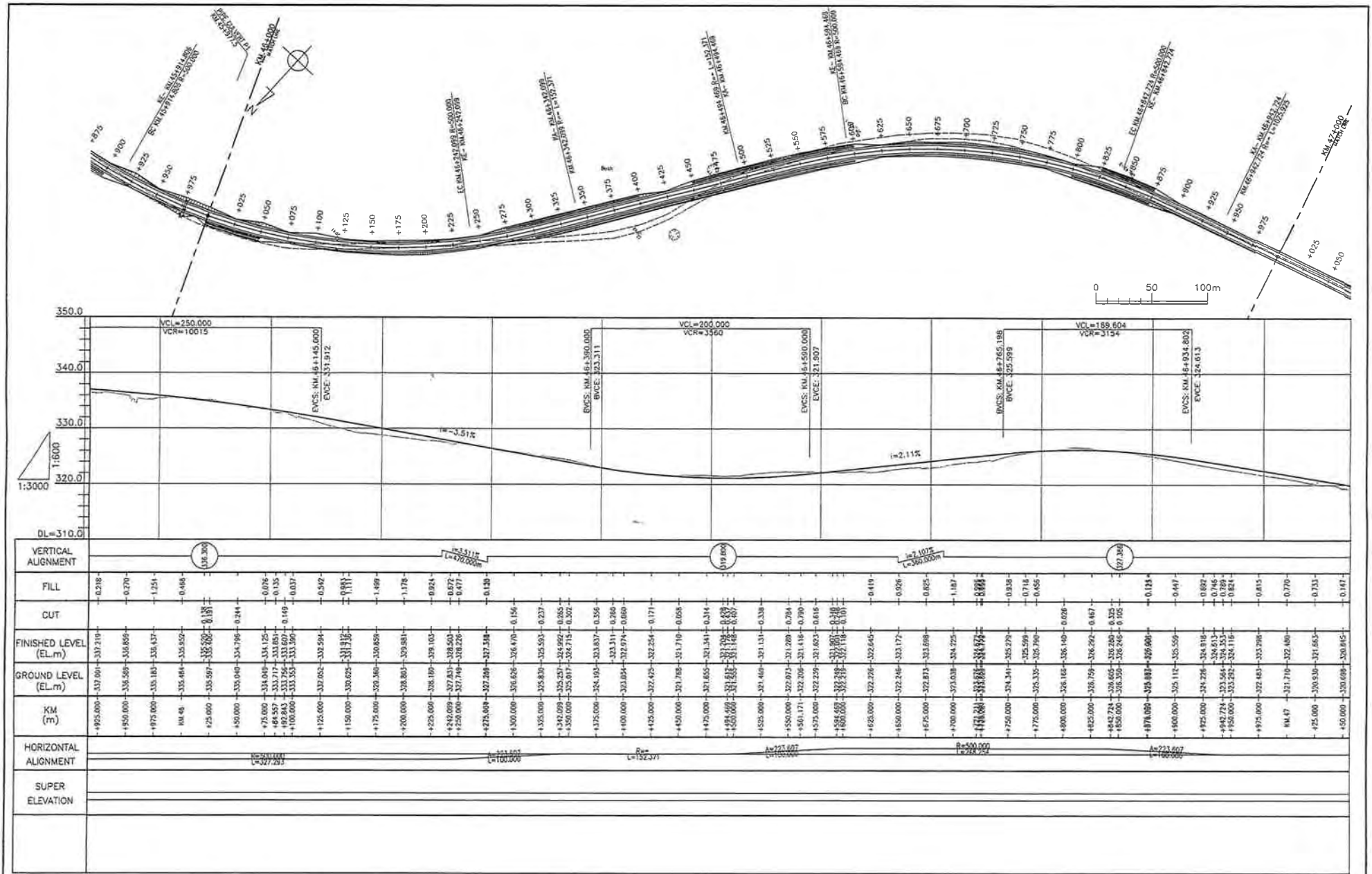
Date: Mar. 2007

Prepared by:

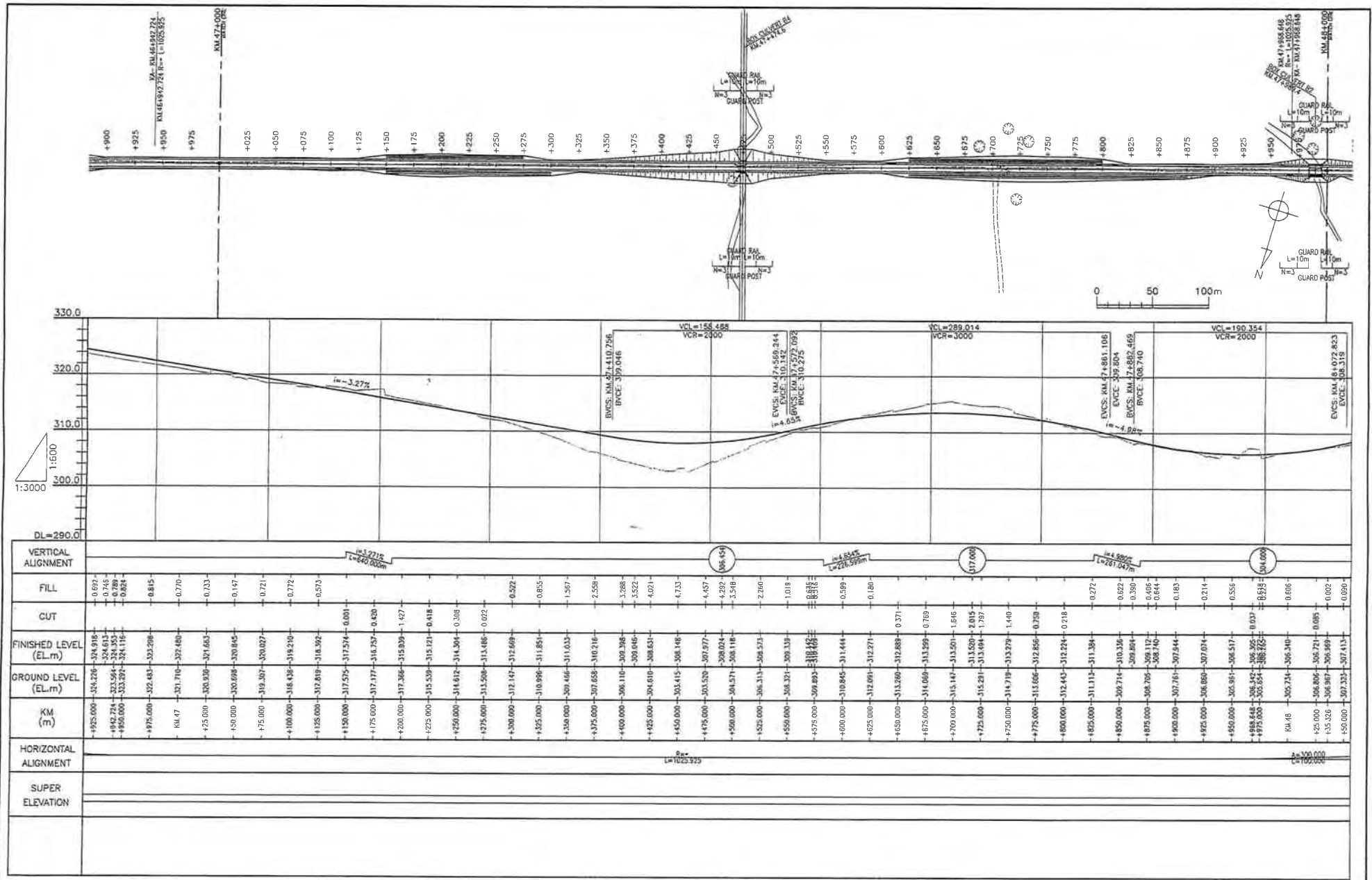
Checked by:

DRAWING No.:

MR DD E-47

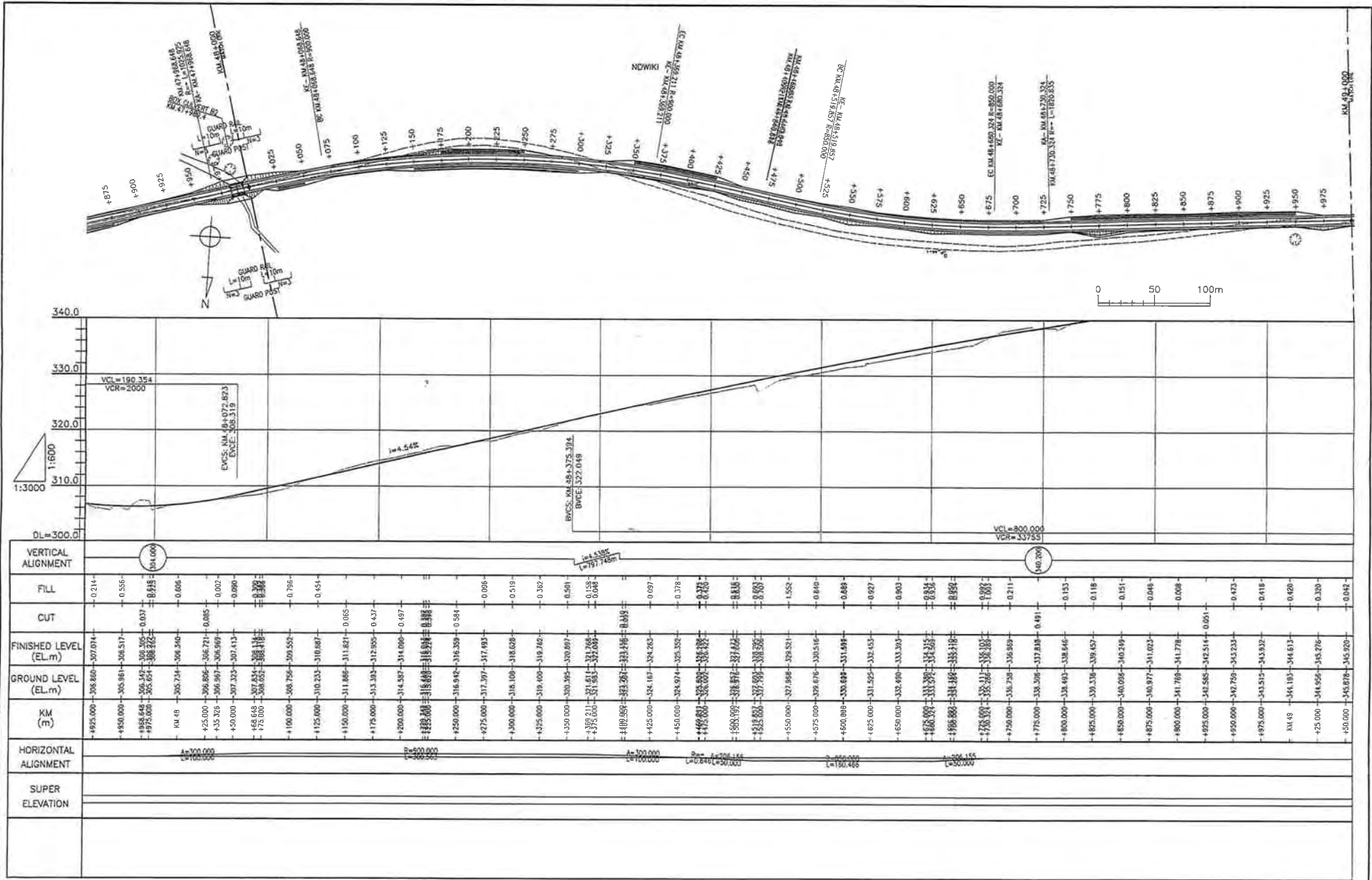


<ul style="list-style-type: none"> ● The Ministry of Infrastructure Development of United Republic of Tanzania ● Japan International Cooperation Agency 	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	Date: Mar. 2007	DRAWING No.:
	Construction Project Consultants, Inc. (CPC)	The Project for Upgrading Masasi-Mangaka Road	PLAN & PROFILE(48/56)	Prepared by:	MR DD E-48
				Checked by:	



VERTICAL ALIGNMENT	FILL	CUT	FINISHED LEVEL (EL.m)	GROUND LEVEL (EL.m)	KM (m)	HORIZONTAL ALIGNMENT	SUPER ELEVATION
	0.692		+925.000 -318.226 -318.918	+925.000 -318.226 -318.918	+925.000		
	0.746		+932.254 -323.564 -324.353	+932.254 -323.564 -324.353	+932.254		
	0.824		+950.000 -333.327 -334.116	+950.000 -333.327 -334.116	+950.000		
	0.815		+975.000 -352.483 -353.272	+975.000 -352.483 -353.272	+975.000		
	0.770		KM.47	+31.710 -332.486	KM.47		
	0.733		+425.000 -370.930 -371.663	+425.000 -370.930 -371.663	+425.000		
	0.147		+450.000 -330.698 -330.845	+450.000 -330.698 -330.845	+450.000		
	0.721		+475.000 -319.387 -320.027	+475.000 -319.387 -320.027	+475.000		
	0.772		+490.000 -318.158 -318.250	+490.000 -318.158 -318.250	+490.000		
	0.573		+125.000 -317.819 -318.392	+125.000 -317.819 -318.392	+125.000		
			+150.000 -317.575 -317.574 -0.001	+150.000 -317.575 -317.574 -0.001	+150.000		
			+175.000 -317.177 -316.757 -0.420	+175.000 -317.177 -316.757 -0.420	+175.000		
			+200.000 -317.386 -319.939 -1.427	+200.000 -317.386 -319.939 -1.427	+200.000		
			+225.000 -315.539 -315.121 -0.418	+225.000 -315.539 -315.121 -0.418	+225.000		
			+250.000 -314.612 -314.594 -0.310	+250.000 -314.612 -314.594 -0.310	+250.000		
			+275.000 -313.508 -313.486 -0.022	+275.000 -313.508 -313.486 -0.022	+275.000		
			+300.000 -312.107 -312.609	+300.000 -312.107 -312.609	+300.000		
			+325.000 -310.996 -311.851	+325.000 -310.996 -311.851	+325.000		
			+350.000 -309.466 -311.033	+350.000 -309.466 -311.033	+350.000		
			+375.000 -307.858 -310.216	+375.000 -307.858 -310.216	+375.000		
			+400.000 -306.110 -309.398	+400.000 -306.110 -309.398	+400.000		
			+425.000 -304.610 -308.631	+425.000 -304.610 -308.631	+425.000		
			+450.000 -303.415 -308.148	+450.000 -303.415 -308.148	+450.000		
			+475.000 -303.520 -307.977	+475.000 -303.520 -307.977	+475.000		
			+500.000 -304.571 -308.118	+500.000 -304.571 -308.118	+500.000		
			+525.000 -306.313 -308.573	+525.000 -306.313 -308.573	+525.000		
			+550.000 -308.321 -309.139	+550.000 -308.321 -309.139	+550.000		
			+575.000 -309.893 -310.162	+575.000 -309.893 -310.162	+575.000		
			+600.000 -310.845 -311.444	+600.000 -310.845 -311.444	+600.000		
			+625.000 -312.091 -312.271	+625.000 -312.091 -312.271	+625.000		
			+650.000 -313.266 -312.888 -0.371	+650.000 -313.266 -312.888 -0.371	+650.000		
			+675.000 -314.060 -313.259 -0.719	+675.000 -314.060 -313.259 -0.719	+675.000		
			+700.000 -315.144 -313.501 -1.616	+700.000 -315.144 -313.501 -1.616	+700.000		
			+725.000 -315.291 -313.694 -1.797	+725.000 -315.291 -313.694 -1.797	+725.000		
			+750.000 -314.719 -313.327 -1.140	+750.000 -314.719 -313.327 -1.140	+750.000		
			+775.000 -313.606 -312.856 -0.759	+775.000 -313.606 -312.856 -0.759	+775.000		
			+800.000 -312.443 -312.224 -0.218	+800.000 -312.443 -312.224 -0.218	+800.000		
			+825.000 -311.113 -311.384	+825.000 -311.113 -311.384	+825.000		
			+850.000 -309.714 -310.336	+850.000 -309.714 -310.336	+850.000		
			+875.000 -309.850 -309.850	+875.000 -309.850 -309.850	+875.000		
			+900.000 -308.709 -308.112	+900.000 -308.709 -308.112	+900.000		
			+925.000 -307.761 -307.944	+925.000 -307.761 -307.944	+925.000		
			+950.000 -306.680 -307.074	+950.000 -306.680 -307.074	+950.000		
			+975.000 -305.951 -306.517	+975.000 -305.951 -306.517	+975.000		
			+990.000 -306.342 -306.305 -0.037	+990.000 -306.342 -306.305 -0.037	+990.000		
			+1000.000 -305.654 -305.525	+1000.000 -305.654 -305.525	+1000.000		
			KM.48	+305.734 -306.340	KM.48		
			+125.000 -306.006 -306.721 -0.085	+125.000 -306.006 -306.721 -0.085	+125.000		
			+150.000 -306.907 -306.989	+150.000 -306.907 -306.989	+150.000		
			+150.000 -307.333 -307.413	+150.000 -307.333 -307.413	+150.000		

<ul style="list-style-type: none"> The Ministry of Infrastructure Development of United Republic of Tanzania Japan International Cooperation Agency 	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	Date: Mar. 2007	DRAWING No.:
	Construction Project Consultants, Inc. (CPC)	The Project for Upgrading Masasi-Mangaka Road	PLAN & PROFILE(49/56)	Prepared by:	MR DD E-49
				Checked by:	



- The Ministry of Infrastructure Development of United Republic of Tanzania
- Japan International Cooperation Agency

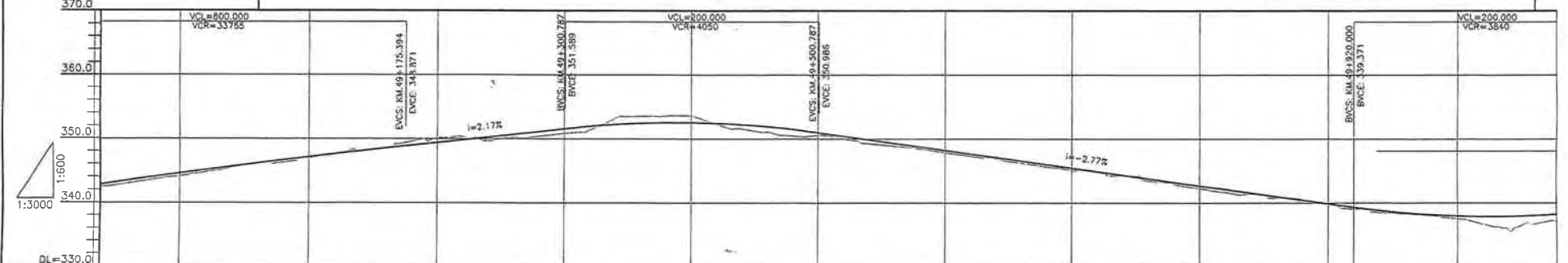
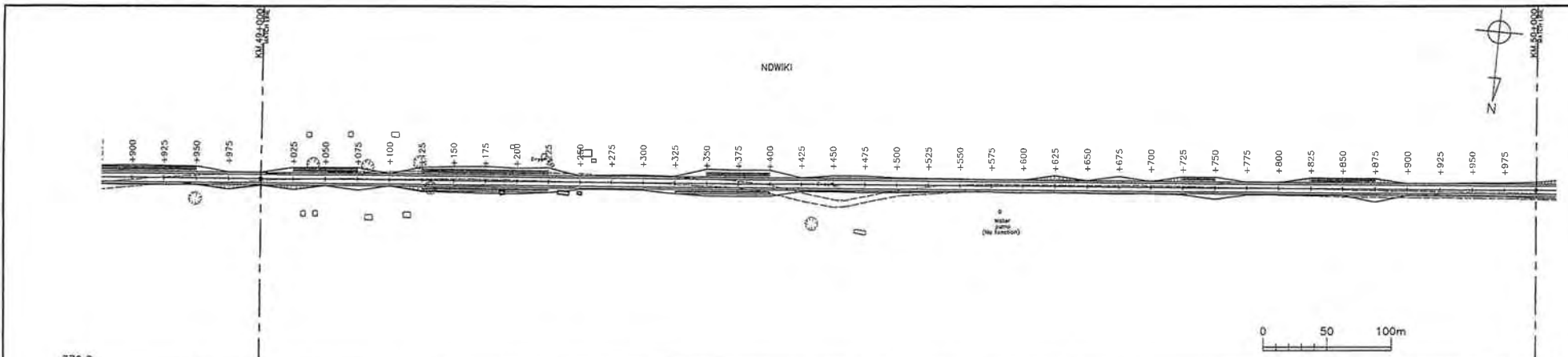
CONSULTANTS:
Construction Project Consultants, Inc. (CPC)

PROJECT NAME:
The Project for Upgrading Masasi-Mangaka Road

DRAWING TITLE:
PLAN & PROFILE(50/56)

Date: Mar. 2007
Prepared by:
Checked by:

DRAWING No.:
MR DD E-50



VERTICAL ALIGNMENT		i=2.165% L=602.393m		i=2.771% L=619.313m	
FILL		0.43	0.418	0.420	0.396
CUT		0.051	0.050	0.042	0.118
FINISHED LEVEL (EL.m)		342.514	343.233	344.932	346.613
GROUND LEVEL (EL.m)		342.084	342.815	344.512	346.217
KM (m)		992.500	994.585	996.670	998.755
HORIZONTAL ALIGNMENT		992.500	994.585	996.670	998.755
SUPER ELEVATION		0.000	0.000	0.000	0.000

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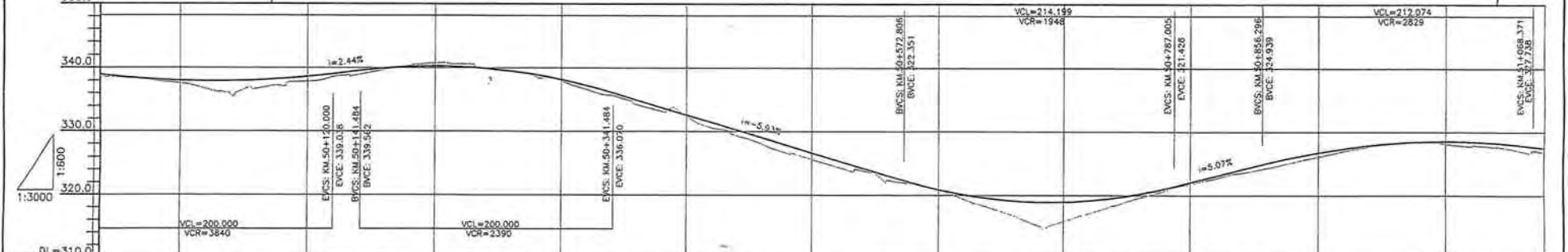
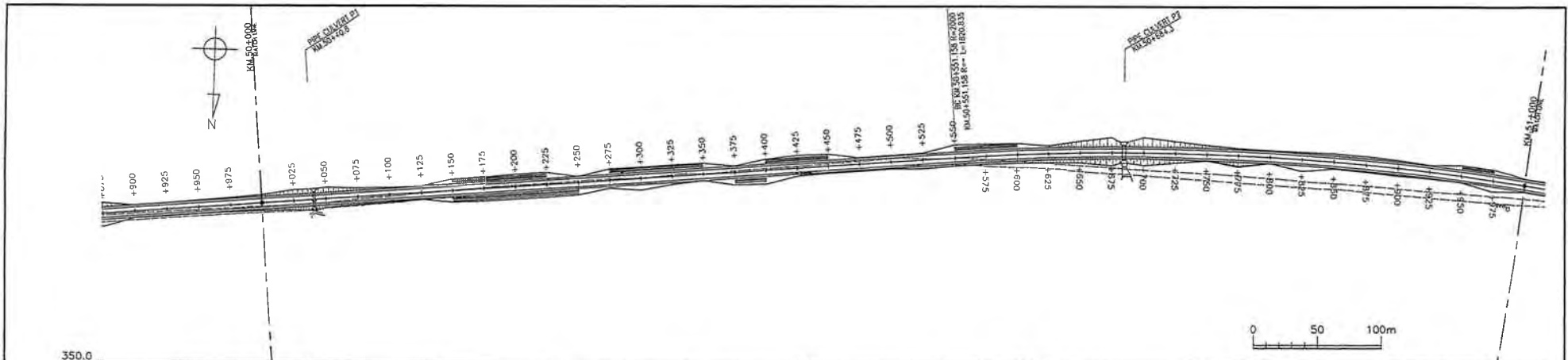
CONSULTANTS:
Construction Project Consultants, Inc. (CPC)

PROJECT NAME:
The Project for Upgrading Masasi-Mangaka Road

DRAWING TITLE:
PLAN & PROFILE(51/56)

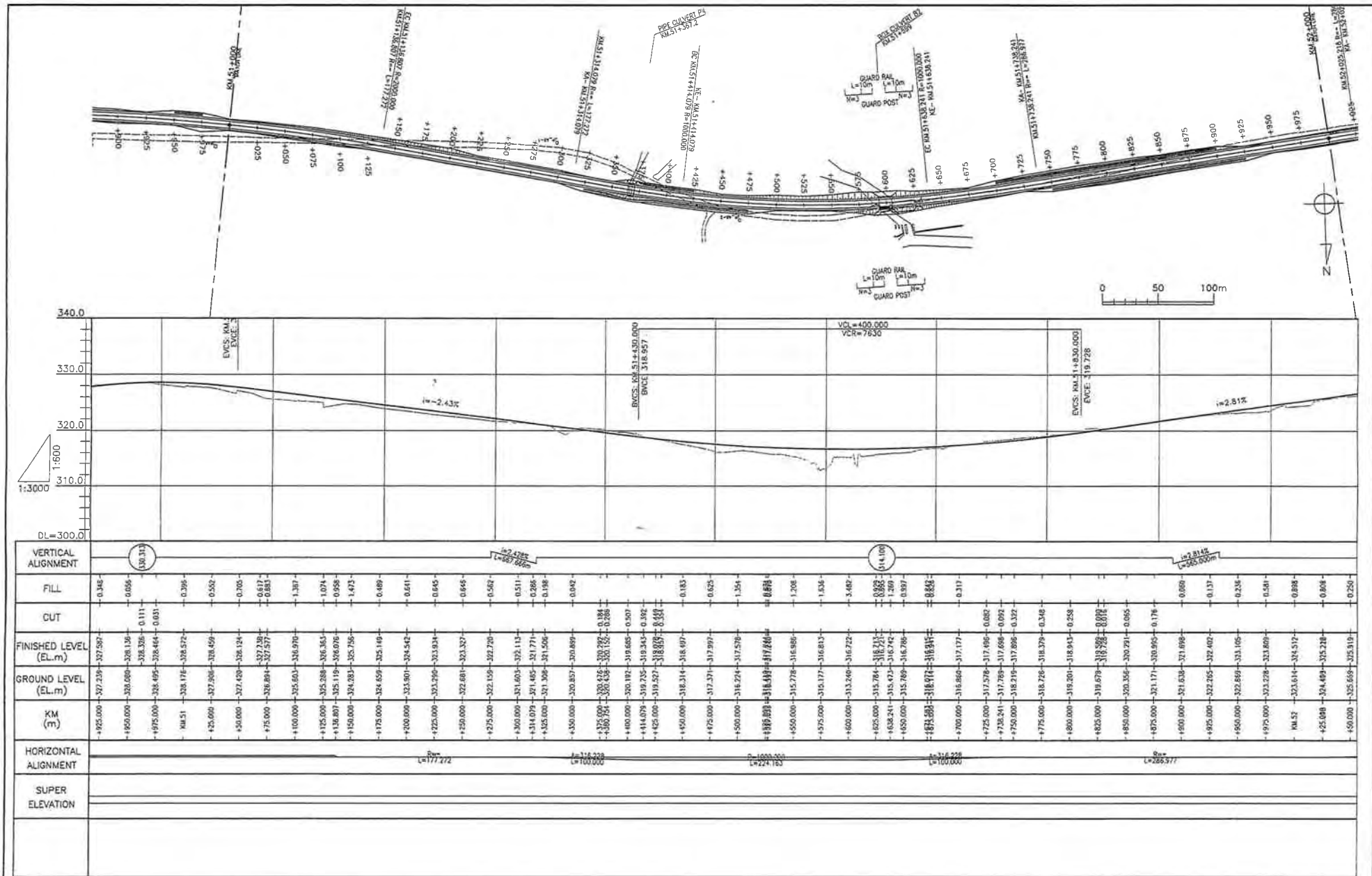
Date: Mar. 2007
Prepared by:
Checked by:

DRAWING No.:
MR DD E-51

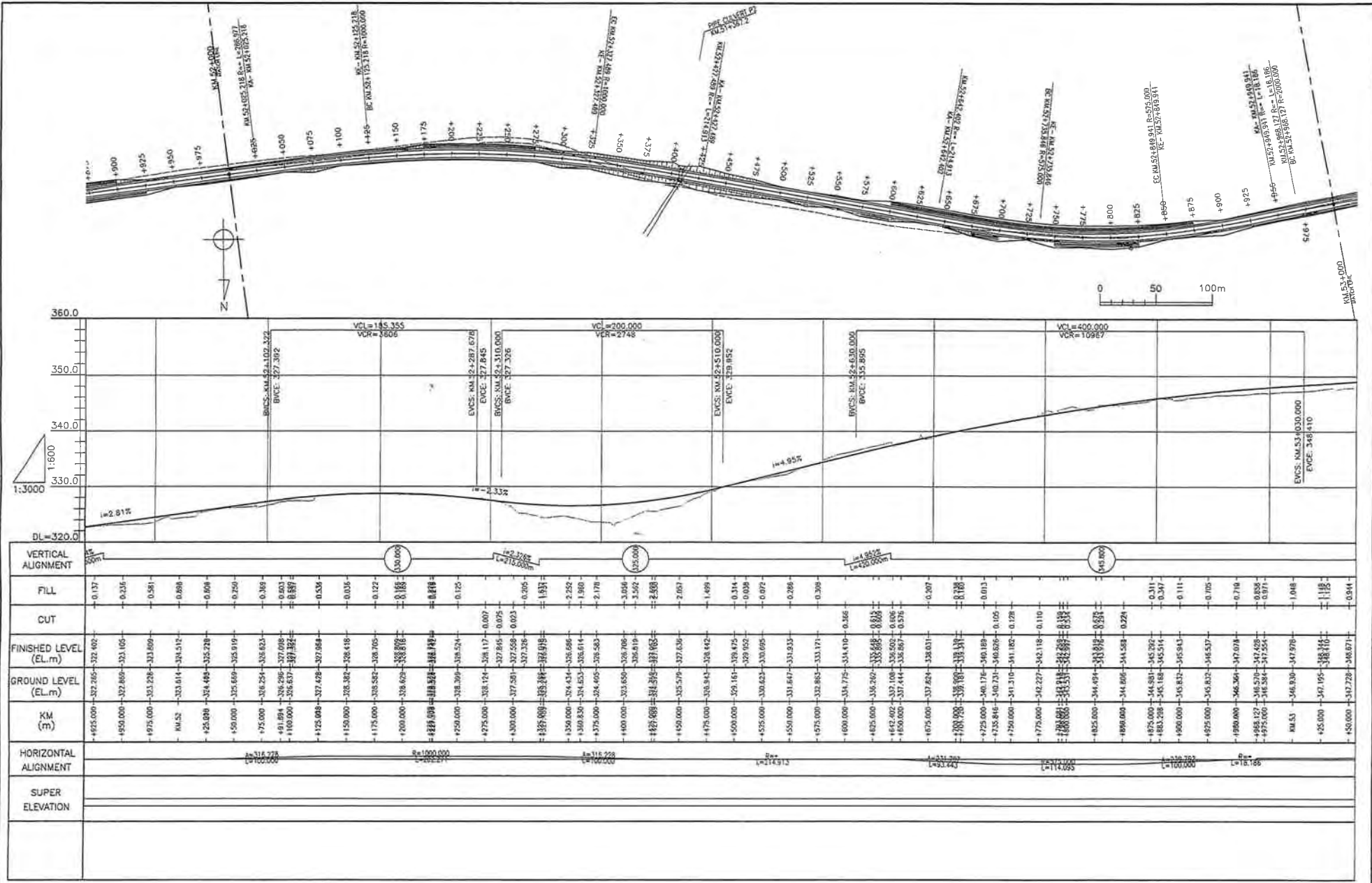


VERTICAL ALIGNMENT	GRADES		FINISHED LEVEL (EL.m)	GROUND LEVEL (EL.m)	KM (m)	HORIZONTAL ALIGNMENT		SUPER ELEVATION
	FILL	CUT				PC	PT	
	0.33	0.21	329.011	328.721	+925.000	PC	PT	
	0.21	0.178	328.657	328.241	+920.000			
	0.178	0.447	328.241	327.968	+915.000			
	0.447	0.447	327.968	327.877	KM 50			
	0.447	0.447	327.877	327.877	+910.000			
	0.447	0.409	327.877	327.970	+905.000			
	0.409	1.004	327.970	328.205	+900.000			
	1.004	0.751	328.205	328.603	+895.000			
	0.751	0.447	328.603	328.723	+890.000			
	0.447	0.398	328.723	329.562	+885.000			
	0.398	0.447	329.562	329.754	+880.000			
	0.447	0.076	329.754	340.144	+875.000			
	0.076	0.699	340.144	340.272	+870.000			
	0.699	0.471	340.272	340.138	+865.000			
	0.471	0.015	340.138	339.905	+860.000			
	0.015	0.067	339.905	339.744	+855.000			
	0.067	0.168	339.744	338.821	+850.000			
	0.168	0.699	338.821	338.170	+845.000			
	0.699	0.411	338.170	338.990	+840.000			
	0.411	0.407	338.990	338.076	+835.000			
	0.407	0.608	338.076	335.164	+830.000			
	0.608	0.116	335.164	334.052	+825.000			
	0.116	0.710	334.052	332.864	+820.000			
	0.710	0.847	332.864	331.117	+815.000			
	0.847	1.168	331.117	328.854	+810.000			
	1.168	1.015	328.854	328.152	+805.000			
	1.015	0.341	328.152	325.654	+800.000			
	0.341	0.388	325.654	324.421	+795.000			
	0.388	0.938	324.421	322.821	+790.000			
	0.938	1.638	322.821	319.303	+785.000			
	1.638	3.037	319.303	318.967	+780.000			
	3.037	1.784	318.967	319.272	+775.000			
	1.784	0.862	319.272	319.504	+770.000			
	0.862	0.429	319.504	320.856	+765.000			
	0.429	0.215	320.856	321.428	+760.000			
	0.215	0.238	321.428	322.055	+755.000			
	0.238	0.363	322.055	323.353	+750.000			
	0.363	0.554	323.353	324.533	+745.000			
	0.554	0.766	324.533	325.825	+740.000			
	0.766	0.816	325.825	326.816	+735.000			
	0.816	0.314	326.816	327.587	+730.000			
	0.314	0.058	327.587	328.115	+725.000			
	0.058	0.111	328.115	328.328	+720.000			
	0.111	0.031	328.328	328.164	+715.000			
	0.031	0.398	328.164	328.572	KM 51			
	0.398	0.557	328.572	328.654	+710.000			
	0.557	0.705	328.654	328.114	+705.000			
	0.705		328.114		+700.000			

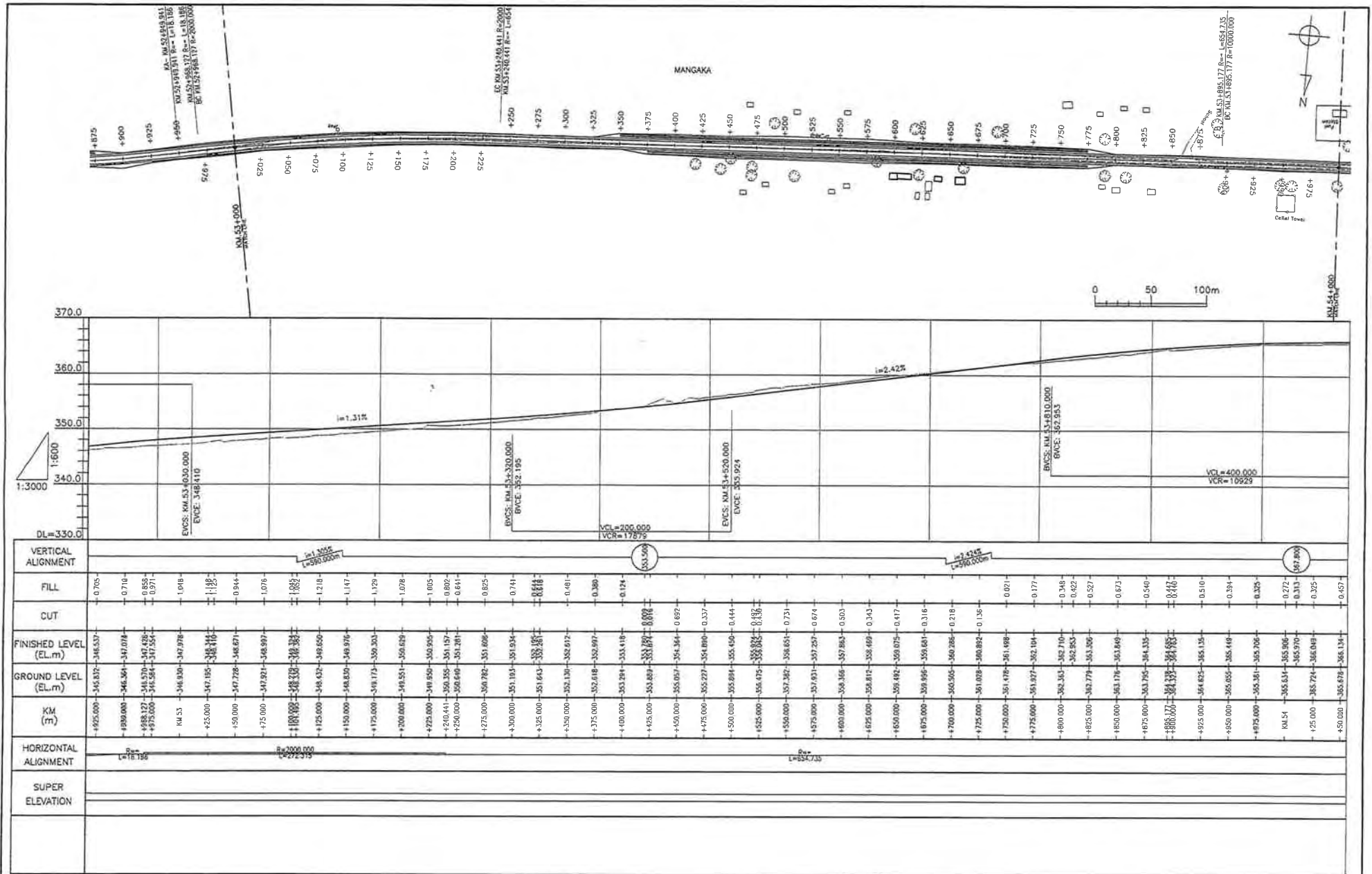
<ul style="list-style-type: none"> The Ministry of Infrastructure Development of United Republic of Tanzania Japan International Cooperation Agency 	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	Date: Mar, 2007	DRAWING No.:
	Construction Project Consultants, Inc. (CPC)	The Project for Upgrading Masasi-Mangaka Road	PLAN & PROFILE(52/56)	Prepared by:	MR DD E-52
				Checked by:	



<ul style="list-style-type: none"> The Ministry of Infrastructure Development of United Republic of Tanzania Japan International Cooperation Agency 	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	Date: Mar. 2007	DRAWING No.:
	Construction Project Consultants, Inc. (CPC)	The Project for Upgrading Masasi-Mangaka Road	PLAN & PROFILE(53/56)	Prepared by:	MR DD E-53
				Checked by:	



<ul style="list-style-type: none"> The Ministry of Infrastructure Development of United Republic of Tanzania Japan International Cooperation Agency 	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	Date: Mar. 2007	DRAWING No.: MR DD E-54
	Construction Project Consultants, Inc. (CPC)	The Project for Upgrading Masasi-Mangaka Road	PLAN & PROFILE(54/56)	Prepared by:	
				Checked by:	



- The Ministry of Infrastructure Development of United Republic of Tanzania
- Japan International Cooperation Agency

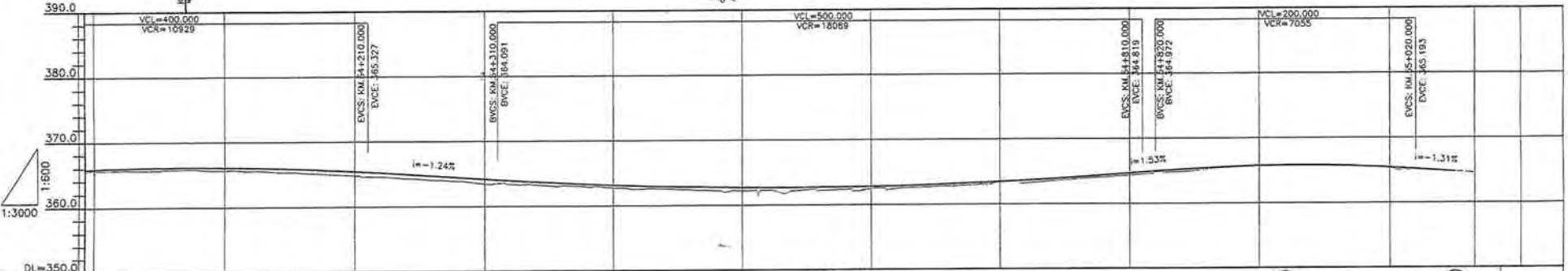
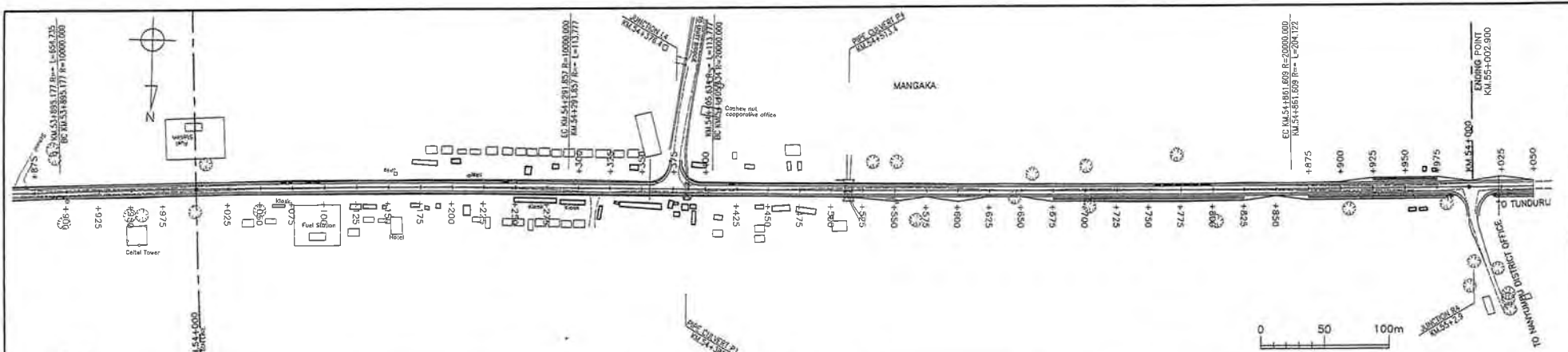
CONSULTANTS:
Construction Project Consultants, Inc. (CPC)

PROJECT NAME:
The Project for Upgrading Masasi-Mangaka Road

DRAWING TITLE:
PLAN & PROFILE(55/56)

Date: Mar. 2007
Prepared by:
Checked by:

DRAWING No.:
MR DD E-55



VERTICAL ALIGNMENT	i = 1.24% L = 350.000m		i = 1.31% L = 300.000m		i = 1.31% L = 307.5m	
FILL	0.272	0.313	0.325	0.457	0.344	0.383
CUT	0.344	0.383	0.457	0.344	0.383	0.344
FINISHED LEVEL (EL.m)	365.654	365.970	366.019	366.114	366.185	366.185
GROUND LEVEL (EL.m)	365.724	365.878	366.114	366.114	366.185	366.185
KM (m)	91.64	125.000	150.000	175.000	200.000	225.000
HORIZONTAL ALIGNMENT	R=10000.000 L=350.000		R=11117.777 L=350.000		R=20000.000 L=300.000	
SUPER ELEVATION						

- The Ministry of Infrastructure Development of United Republic of Tanzania
- Japan International Cooperation Agency

CONSULTANTS:
Construction Project Consultants, Inc. (CPC)

PROJECT NAME:
The Project for Upgrading Masasi-Mangaka Road

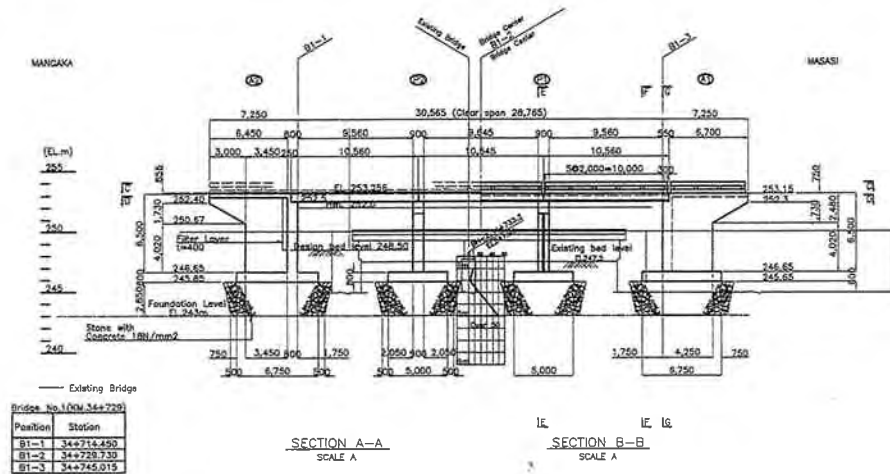
DRAWING TITLE:
PLAN & PROFILE(56/56)

Date: Mar. 2007
Prepared by:
Checked by:

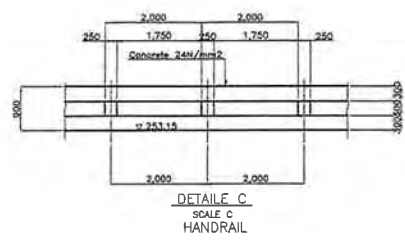
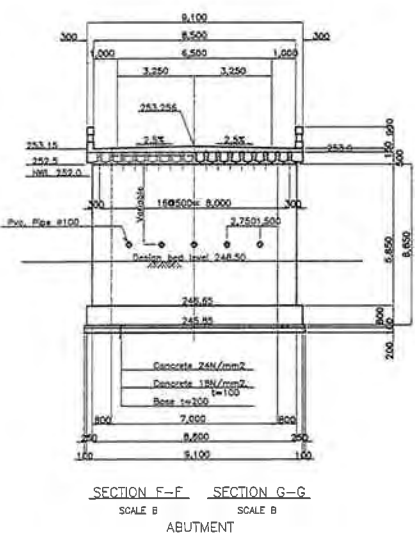
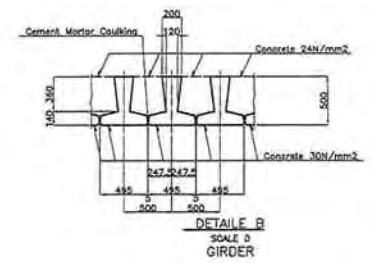
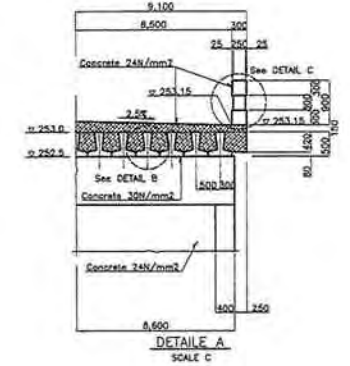
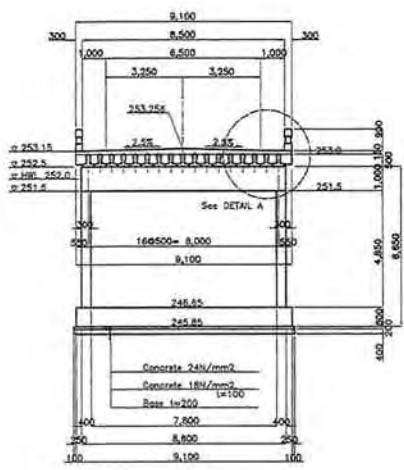
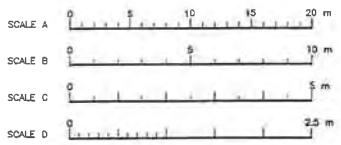
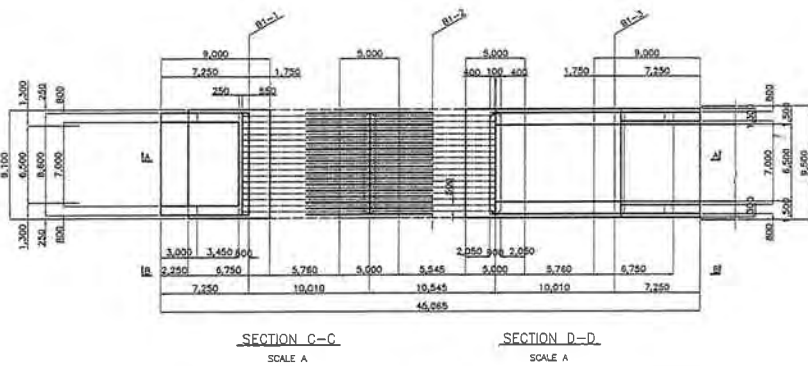
DRAWING No.:
MR DD E-56

MANGAKA

MASASI



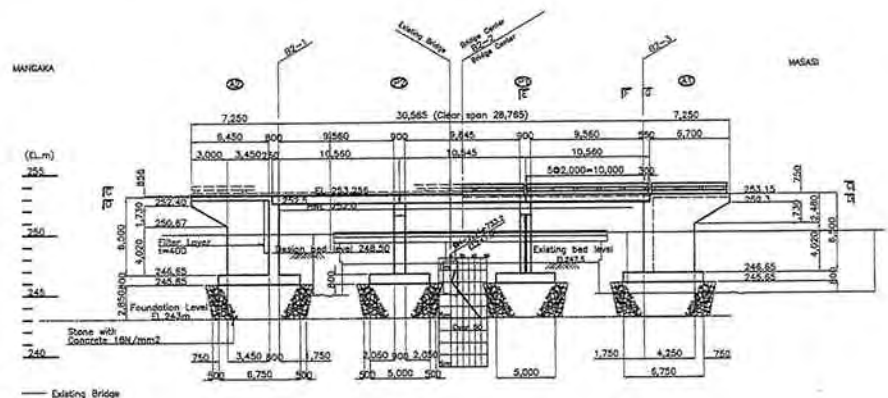
Bridge No.1(KM.34+729)	
Position	Station
B1-1	34+714.450
B1-2	34+729.730
B1-3	34+745.015



The Ministry of Works of United Republic of Tanzania Japan International Cooperation Agency	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	Date: Mar. 2007	DRAWING No.:
	Construction Project Consultants, Inc. (CPC)	The Project for Upgrading Masasi-Mangaka Road	BRIDGE No.1(KM.34+729)	Prepared by:	MR DD F-1
				Checked by:	

MANGAKA

MASASI

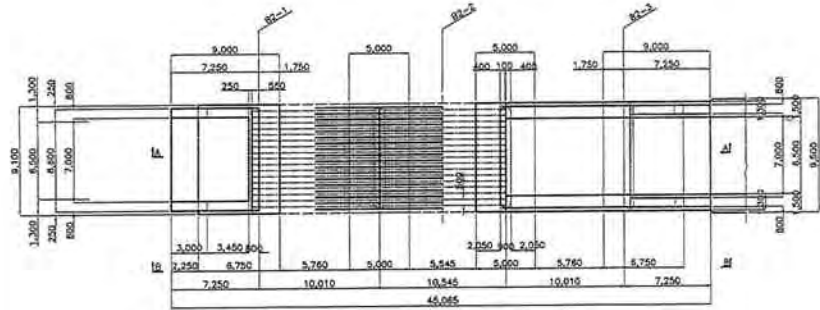


Existing Bridge

Position	Station
B2-1	34+908.150
B2-2	34+921.430
B2-3	34+938.715

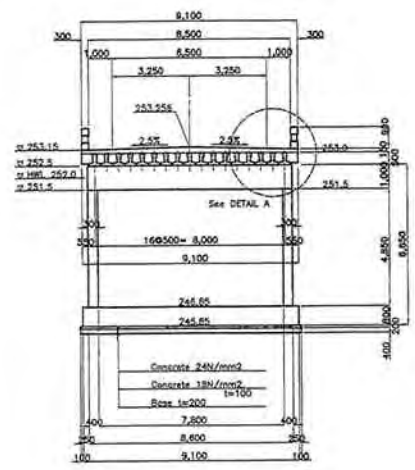
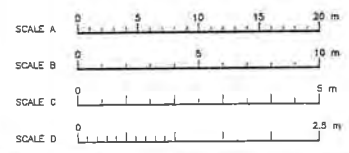
SECTION A-A
SCALE A

SECTION B-B
SCALE A

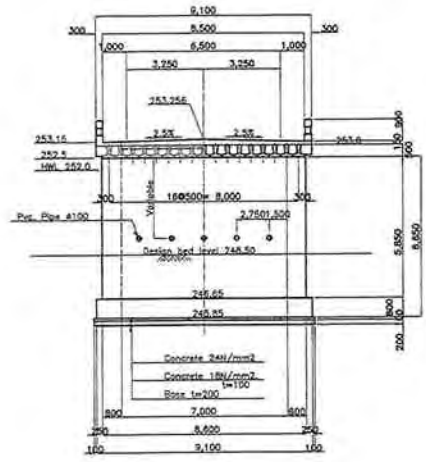


SECTION C-C
SCALE A

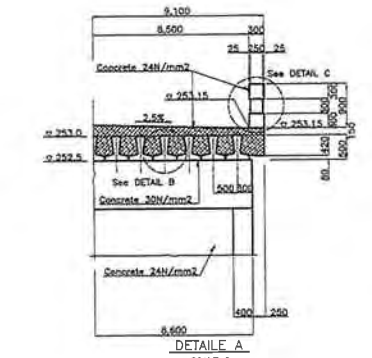
SECTION D-D
SCALE A



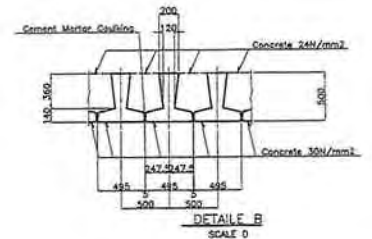
SECTION E-E
SCALE B
PIER



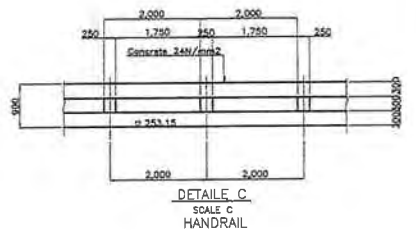
SECTION F-F SECTION G-G
SCALE B SCALE B
ABUTMENT



DETAIL A
SCALE C



DETAIL B
SCALE D
GIRDER



DETAIL C
SCALE C
HANDRAIL

The Ministry of Works
of United Republic of Tanzania
Japan International Cooperation Agency

CONSULTANTS:
Construction Project Consultants, Inc. (CPC)

PROJECT NAME:
The Project for Upgrading Masasi-Mangaka Road

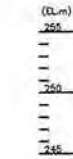
DRAWING TITLE:
BRIDGE No.2(KM.34+921)

Date: Mar. 2007
Prepared by:
Checked by:

DRAWING No.:
MR DD F-2

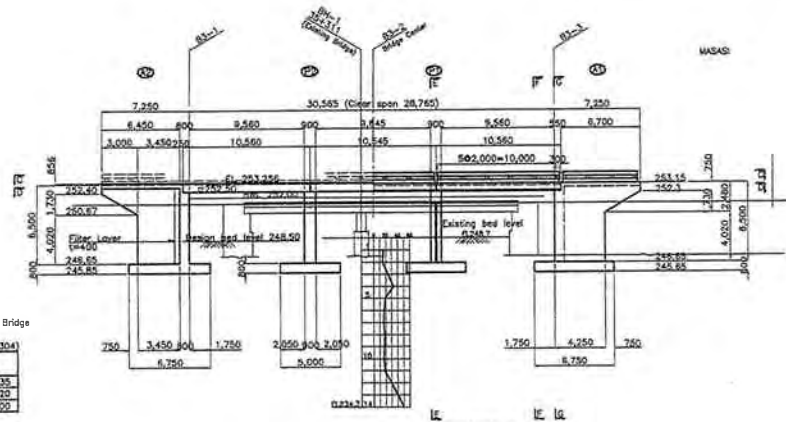
MANDAVA

MASASI



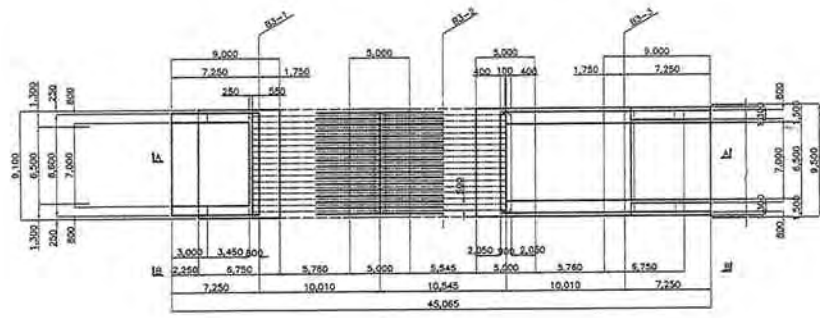
Existing Bridge

Bridge No.	Station
30	35+304.35-304
B3-1	35+304.735
B3-2	35+304.020
B3-3	35+319.500



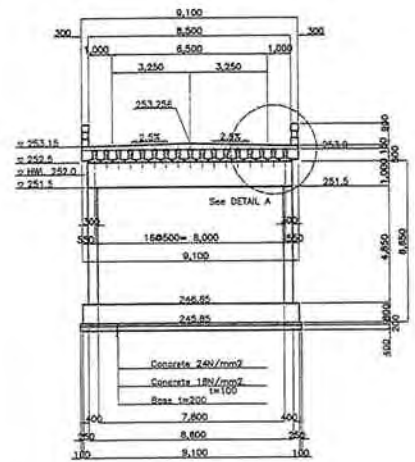
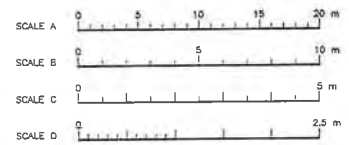
SECTION A-A
SCALE A

SECTION B-B
SCALE A

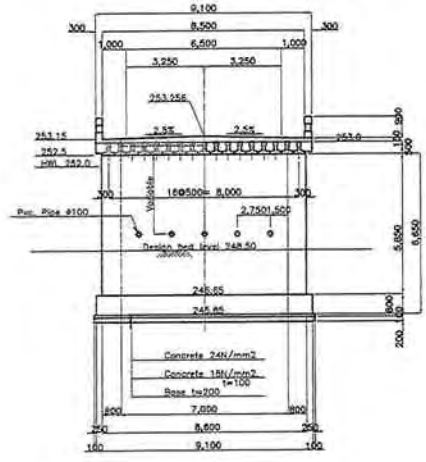


SECTION C-C
SCALE A

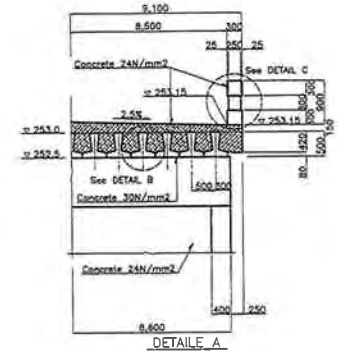
SECTION D-D
SCALE A



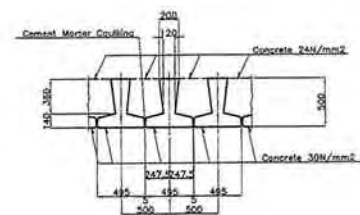
SECTION E-E
SCALE B
PIER



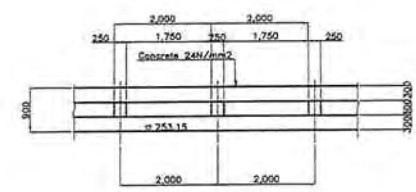
SECTION F-F SECTION G-G
SCALE B
ABUTMENT



DETAIL A
SCALE C



DETAIL B
SCALE D
GIRDER



DETAIL C
SCALE C
HANDRAIL

The Ministry of Works
of United Republic of Tanzania
Japan International Cooperation Agency

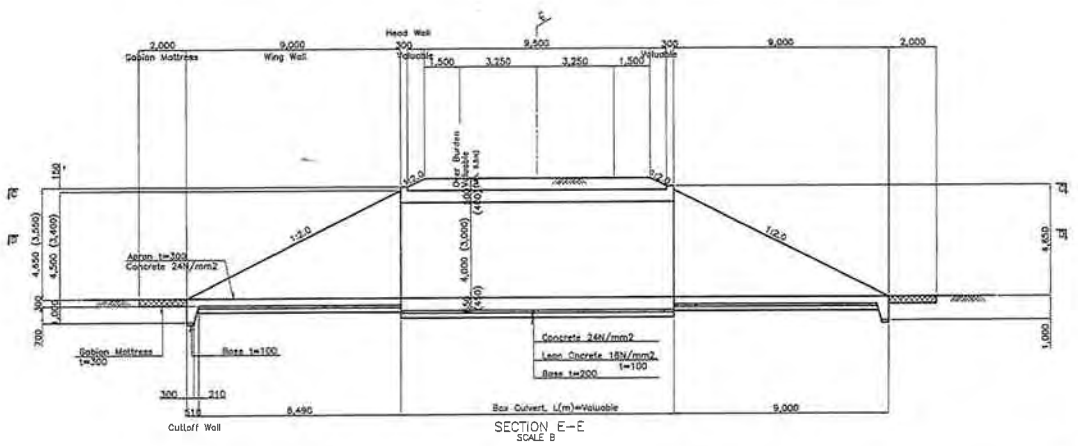
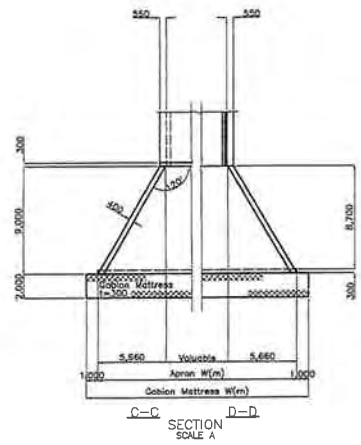
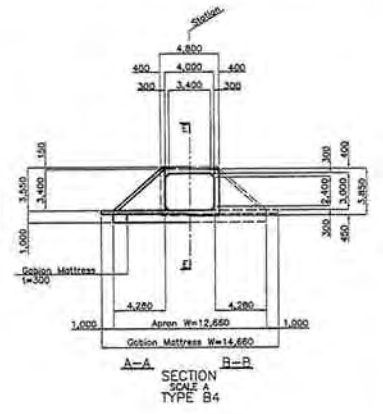
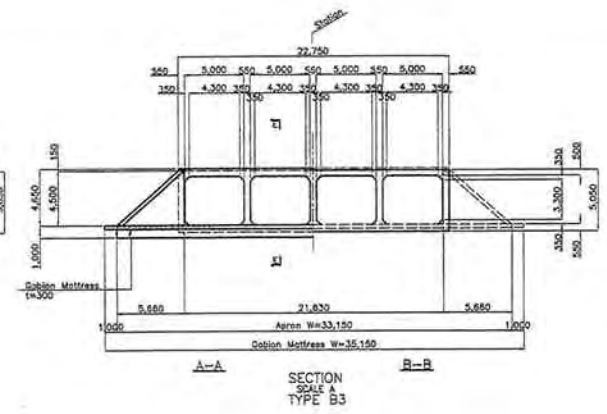
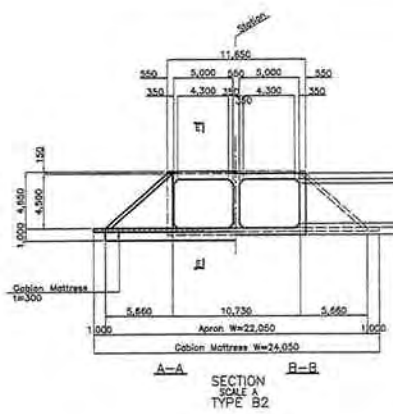
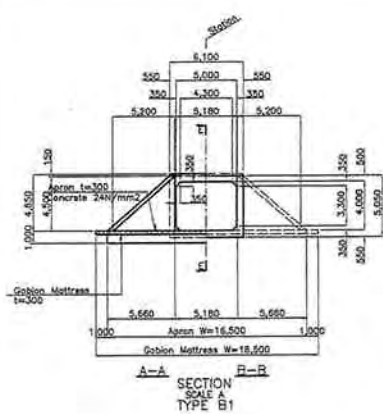
CONSULTANTS:
Construction Project Consultants, Inc. (CPC)

PROJECT NAME:
The Project for Upgrading Masasi-Mangaka Road

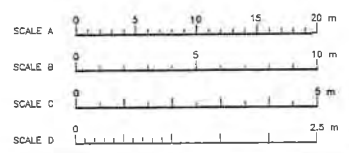
DRAWING TITLE:
BRIDGE NO.3 (KM 35+304)

Date: Mar. 2007
Prepared by:
Checked by:

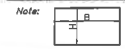
DRAWING No.:
MR DD F-3



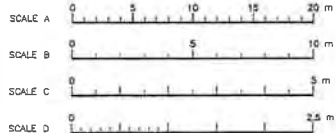
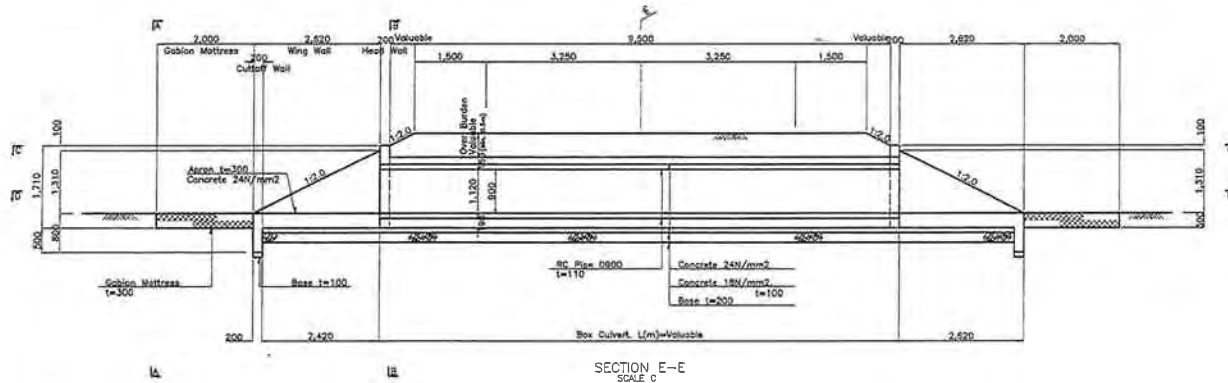
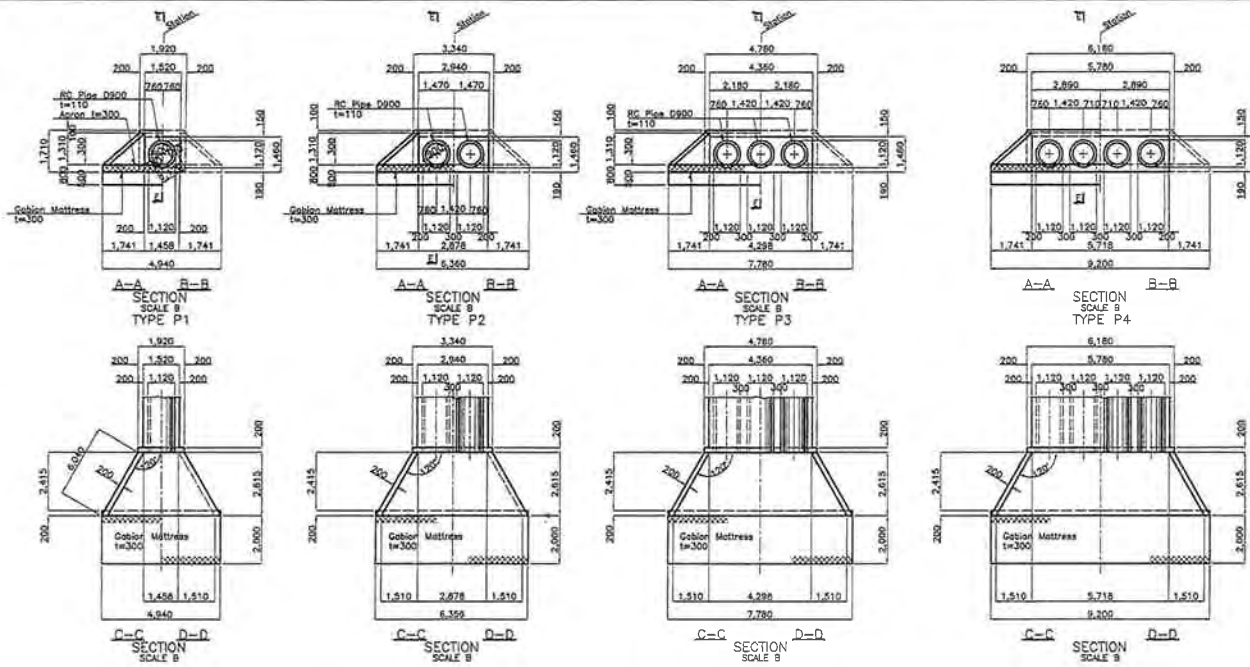
Note: Dimensions with () are for Box Culvert Type B4.



No.	Station	L(m)	B(m)	H(m)	Type
1	18+242	11.50	4	5	B4
2	22+559	11.50	4	5	B4
3	32+408	11.50	5	4	B1
4	28+567	11.50	5	4	B1
5	28+578	11.50	5	4	B1
6	32+105	11.50	5	4	B3
7	24+012	11.50	4	5	B4
8	38+015	11.50	5	4	B1
9	47+582	11.50	4	3	B4
10	48+108	11.50	5	4	B2
11	81+735	11.50	5	4	B2



The Ministry of Works of United Republic of Tanzania Japan International Cooperation Agency	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	Date: Mar. 2007	DRAWING No.:
	Construction Project Consultants, Inc. (CPC)	The Project for Upgrading Masasi-Mangaka Road	BOX CULVERT	Prepared by:	MR DD F-4
				Checked by:	

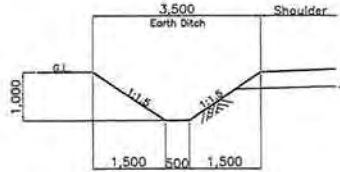


No.	Station	Type
1	0+139	P1
2	2+406	P3
3	3+032	P3
4	3+052	P3
5	3+075	P2
6	3+300	P1
7	3+738	P1
8	3+747	P1
9	7+057	P2
10	11+717	P1
11	11+982	P1
12	12+419	P2
13	16+220	P2
14	16+239	P2
15	17+192	P1
16	17+221	P1
17	19+108	P1
18	19+122	P1
19	19+256	P1
20	20+003	P2
21	20+241	P1
22	23+508	P2
23	23+800	P3
24	24+711	P1
25	24+937	P3
26	27+507	P1
27	28+138	P1
28	28+464	P2
29	31+217	P2
30	31+733	P1
31	31+828	P1
32	31+898	P1
33	33+365	P1
34	34+745	P2
35	34+832	P2
36	35+190	P2
37	35+282	P4
38	35+415	P2
39	36+463	P1
40	36+559	P1
41	38+056	P1
42	38+156	P1
43	38+347	P1
44	38+502	P1
45	39+384	P1
46	39+638	P2
47	40+159	P1
48	40+243	P1
49	40+298	P1
50	41+270	P1
51	41+511	P4
52	42+323	P1
53	43+777	P1
54	46+083	P1
55	50+172	P1
56	50+816	P2
57	51+450	P4
58	52+473	P2
59	54+451	P1
60	54+578	P4

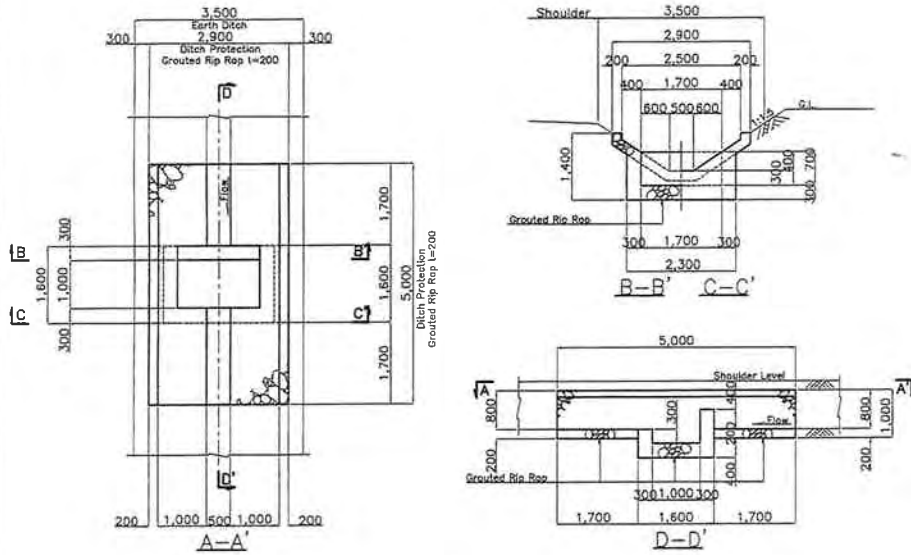
The Ministry of Works of United Republic of Tanzania Japan International Cooperation Agency	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	Date: Mar. 2007	DRAWING No.:
	Construction Project Consultants, Inc. (CPC)	The Project for Upgrading Masasi-Mangaka Road	PIPE CULVERT	Prepared by:	MR DD F-5
				Checked by:	

DITCH

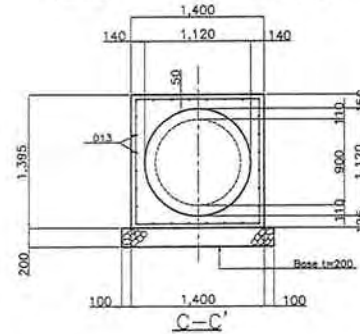
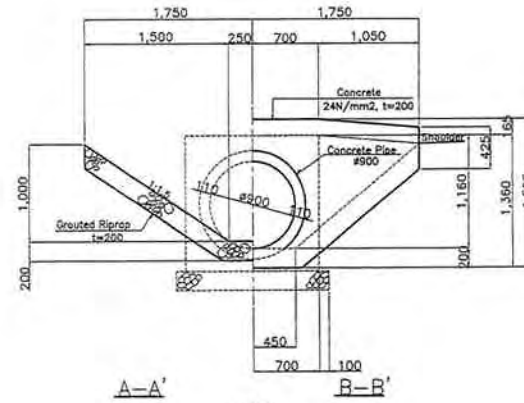
Ditch A (Earth Ditch) Scale 1:100



Ditch Protection (Velocity Type)

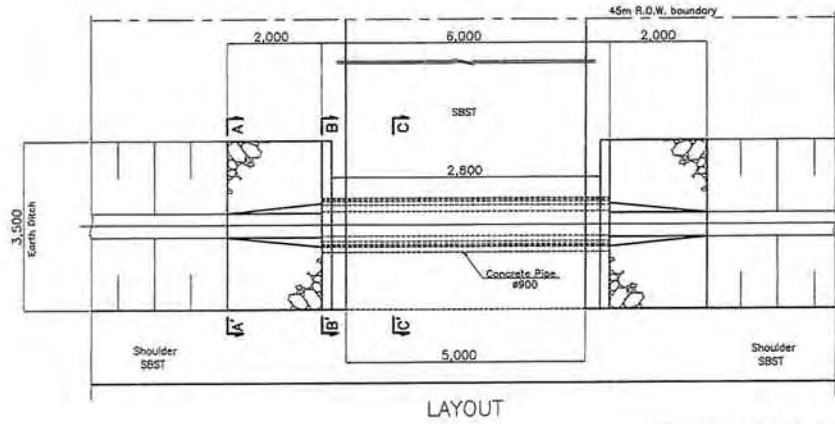


ENTRANCE CULVERT



ENTRANCE CULVERT INSTALLATION

NO.	Location	Side		NO.	Location	Side	
		R	L			R	L
1	00+000			31			
2				32			
3				33			
4				34			
5				35			
6				36			
7				37			
8				38			
9				39			
10				40			
11				41			
12				42			
13				43			
14				44			
15				45			
16				46			
17				47			
18				48			
19				49			
20				50			
21				51			
22				52			
23				53			
24				54			
25				55			
26				56			
27				57			
28				58			
29				59			
30				60			



Note: All dimensions are in millimeters, unless otherwise noted.

- The Ministry of Infrastructure Development of United Republic of Tanzania
- Japan International Cooperation Agency

CONSULTANTS:
Construction Project Consultants, Inc. (CPC)

PROJECT NAME:
The Project for Upgrading Masasi-Mangaka Road

DRAWING TITLE:
INCIDENTAL WORKS-1
DITCH AND ENTRANCE CULVERT
SCALE 1:50, 1:100, 1:200

Date: Mar. 2007
Prepared by:
Checked by:

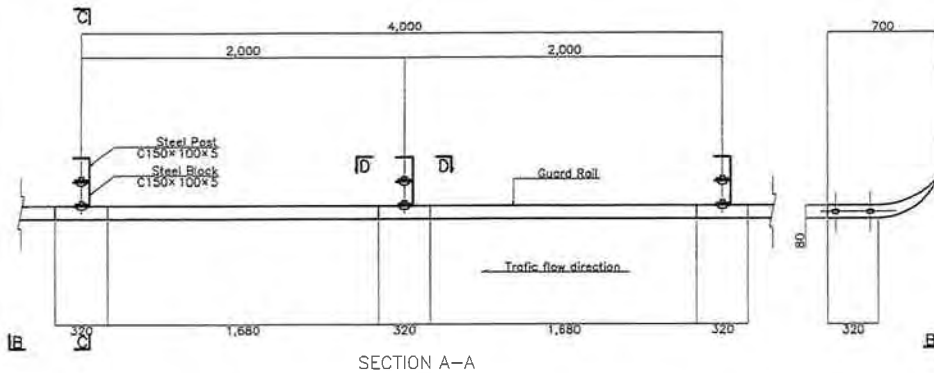
DRAWING No.:
MR DD G-1

GUARD RAIL Scale 1:30

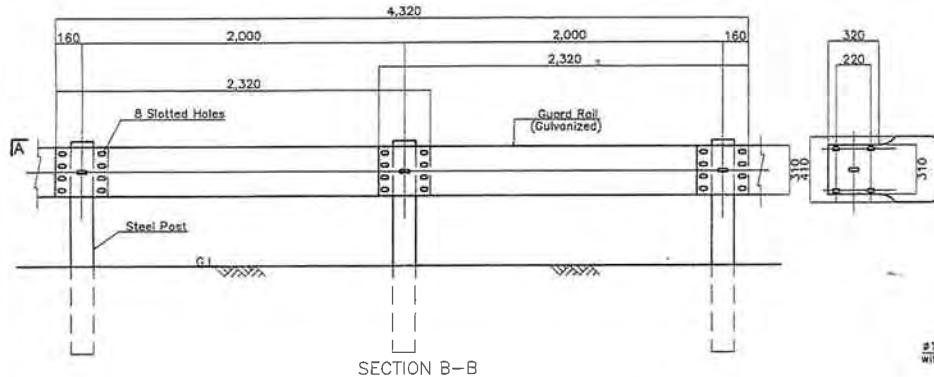
INSTALLATION GUARD RAIL AND GUARD POST

NO.	LOCATION	GUARD RAIL*		GUARD POST* (#)	REMARKS
		GROUND	STRUCTURE		
1	18+242	L=10m x 4	L=4.8m x 2	n=12	Box Culvert
2	22+659	L=10m x 4	L=4.8m x 2	n=12	Box Culvert
3	23+415	L=10m x 4	L=6.1m x 2	n=12	Box Culvert
4	28+587	L=10m x 4	L=6.1m x 2	n=12	Box Culvert
5	29+575	L=10m x 4	L=6.1m x 2	n=12	Box Culvert
6	32+105	L=10m x 4	L=22.75mx2	n=12	Box Culvert
7	34+012	L=10m x 4	L=4.8m x 2	n=12	Box Culvert
8	34+729	L=10m x 4	None	n=12	Bridge No.1
9	34+921	L=10m x 4	None	n=12	Bridge No.2
10	35+304	L=10m x 4	None	n=12	Bridge No.3
11	39+015	L=10m x 4	L=6.1m x 2	n=12	Box Culvert
12	47+592	L=10m x 4	L=4.8m x 2	n=12	Box Culvert
13	48+108	L=10m x 4	L=11.65mx2	n=12	Box Culvert
14	51+735	L=10m x 4	L=11.65mx2	n=12	Box Culvert

Note: Refer to the LAYOUT.

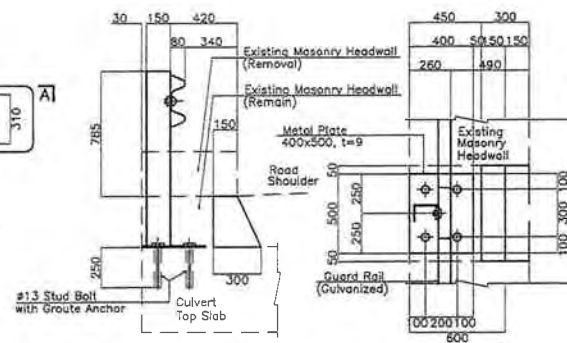


SECTION A-A



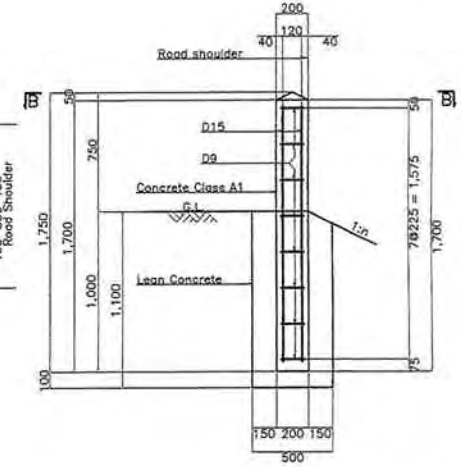
SECTION B-B

GUARD RAIL:STRUCTURE TYPE



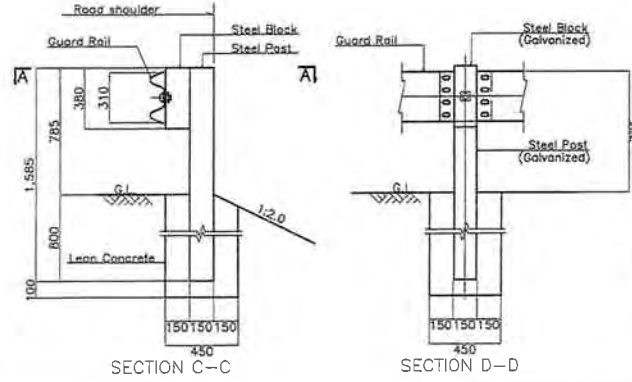
Note: This structure shall be applied for the existing headwall portions where the shoulder width is insufficient.

GUARD POST Scale 1:30



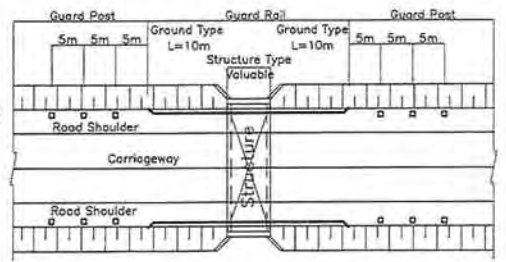
SECTION A-A

GUARD RAIL:GROUND TYPE



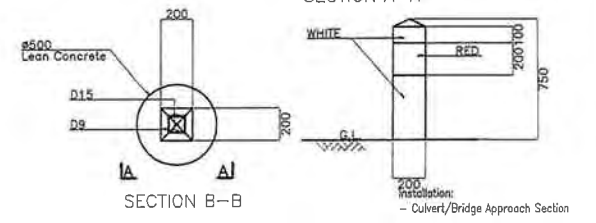
SECTION C-C

SECTION D-D



LAYOUT OF GUARD RAIL AND GUARD POST FOR STRUCTURE SECTION

NON-SCALE



SECTION B-B

Note: All dimensions are in millimeters, unless otherwise noted.

● The Ministry of Infrastructure Development of United Republic of Tanzania
● Japan International Cooperation Agency

CONSULTANTS:
Construction Project Consultants, Inc. (CPC)

PROJECT NAME:
The Project for Upgrading Masasi-Mangaka Road

DRAWING TITLE:
INCIDENTAL WORKS-2
GUARD RAIL AND GUARD POST
SCALE 1:30

Date: Mar. 2007
Prepared by:
Checked by:

DRAWING No.:
MR DD G-2

TRAFFIC SIGNS

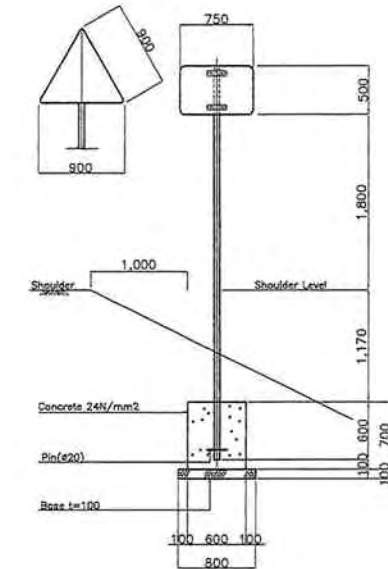
TRAFFIC SIGNS

TYPE	DESCRIPTION	TYPE	TOTAL (pc)
A	Gateway	△	11
B	Pedestrian Crossing	□	24
C	Bus Stop	□	28

TRAFFIC SIGN INSTALLATION

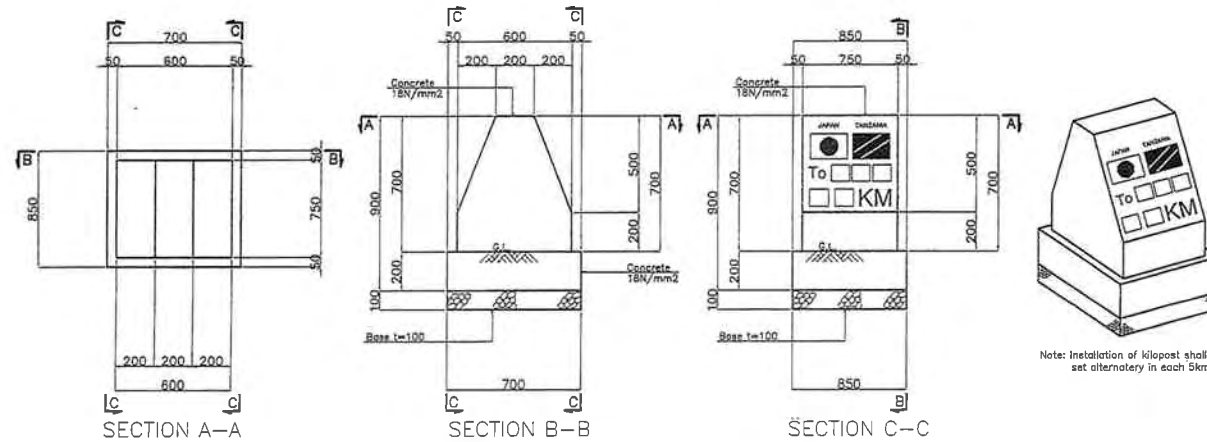
NO.	LOCATION	TYPE	NO.	LOCATION	TYPE	NO.	LOCATION	TYPE
1	00+000 L	A	31			61		
2			32			62		
3			33			63		
4			34					
5			35					
6			36					
7			37					
8			38					
9			39					
10			40					
11			41					
12			42					
13			43					
14			44					
15			45					
16			46					
17			47					
18			48					
19			49					
20			50					
21			51					
22			52					
23			53					
24			54					
25			55					
26			56					
27			57					
28			58					
29			59					
30			60					

SIGN POST Scale 1:50



KILOMETER POST

Scale 1:25



Note: Installation of Kilopost shall be set alternately in each 5km

Note: All dimensions are in millimeters, unless otherwise noted.

- The Ministry of Infrastructure Development of United Republic of Tanzania
- Japan International Cooperation Agency

CONSULTANTS:
Construction Project Consultants, Inc. (CPC)

PROJECT NAME:
The Project for Upgrading Masasi-Mangaka Road

DRAWING TITLE:
INCIDENTAL WORKS-3
TRAFFIC SIGNS AND KILOMETER POST
SCALE 1:25, 1:50

Date: Mar. 2007

Prepared by:

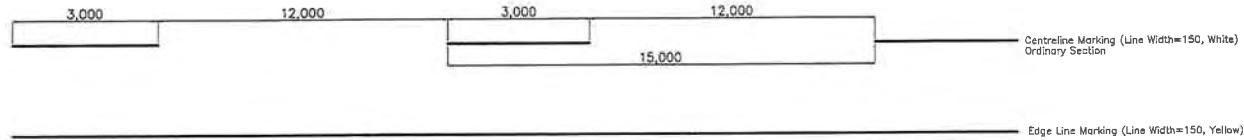
Checked by:

DRAWING No.:

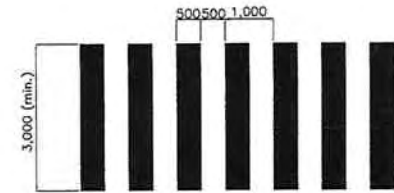
MR DD G-3

PAVEMENT MARKINGS

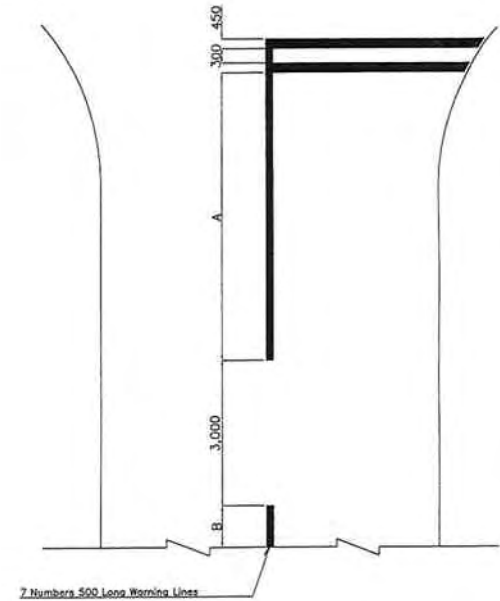
LINE MARKINGS



PEDESTRIAN CROSSING

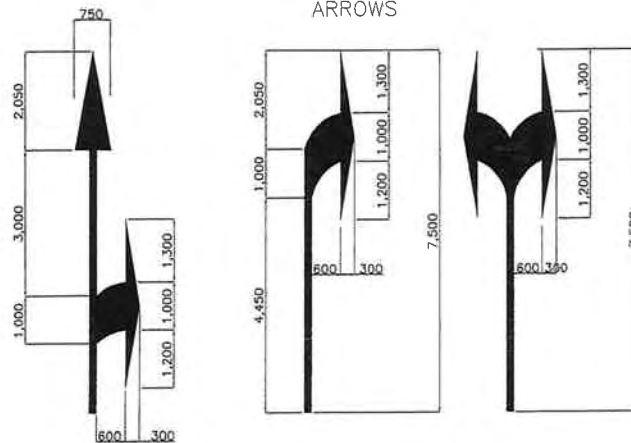


STOPLINE MARKING



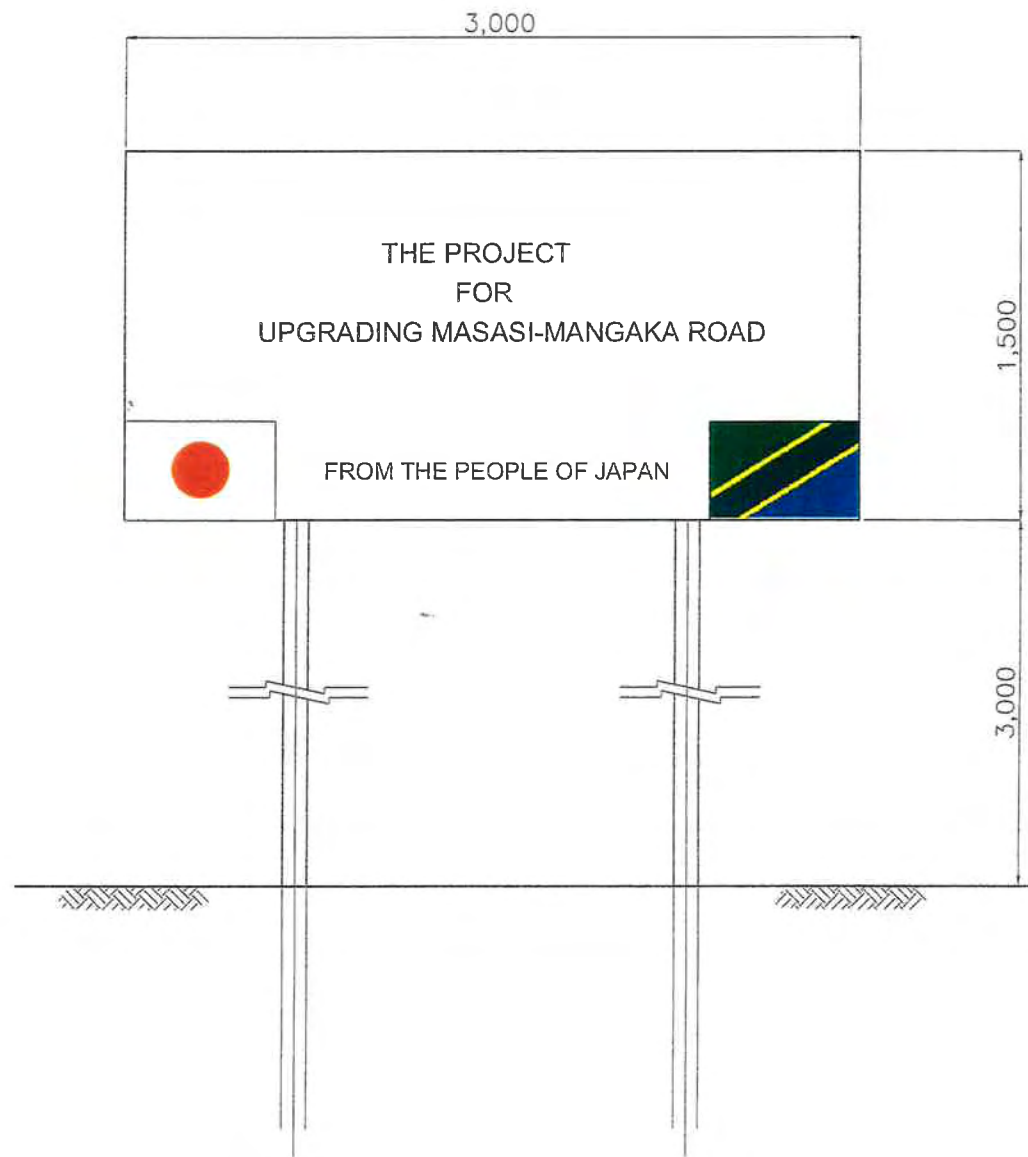
A: 30m long Solid Line Marking before the junction,
B: Warning line shall be placed for 27m.

ARROWS



Note:
1. The Contractor shall submit shop drawings to the Engineer for his approval prior to commencement of the relevant works.
2. All dimensions are in millimeters, unless otherwise noted.

<ul style="list-style-type: none"> The Ministry of Infrastructure Development of United Republic of Tanzania Japan International Cooperation Agency 	CONSULTANTS:	PROJECT NAME:	DRAWING TITLE:	Date: Mar. 2007	DRAWING No.:
	Construction Project Consultants, Inc. (CPC)	The Project for Upgrading Masasi-Mangaka Road	INCIDENTAL WORKS-4 PAVEMENT MARKINGS	Prepared by:	MR DD G-4
			NON-SCALE	Checked by:	



- The Ministry of Infrastructure Development of United Republic of Tanzania
- Japan International Cooperation Agency

CONSULTANTS:
Construction Project Consultants, Inc. (CPC)

PROJECT NAME:
The Project for Upgrading Masasi-Mangaka Road

DRAWING TITLE:
INCIDENTAL WORKS-5
PROJECT INFORMATION BOARD
NON-SCALE

Date: Mar. 2007
Prepared by:
Checked by:

DRAWING No.:
MR DD G-5