

CROSS SECTION TYPE	TYPE 7	TYPE 7
STATION	30+800	30+800
GROUND	8.88	8.88
PAVEMENT	8.91	8.91
GRADE	8.94	8.94
STATION	30+820	30+820
GROUND	8.91	8.91
PAVEMENT	8.94	8.94
GRADE	8.94	8.94
STATION	30+840	30+840
GROUND	8.93	8.93
PAVEMENT	8.93	8.93
GRADE	8.93	8.93
STATION	30+860	30+860
GROUND	8.90	8.90
PAVEMENT	8.90	8.90
GRADE	8.90	8.90
STATION	30+880	30+880
GROUND	8.92	8.92
PAVEMENT	8.92	8.92
GRADE	8.92	8.92
STATION	30+900	30+900
GROUND	8.88	8.88
PAVEMENT	8.88	8.88
GRADE	8.88	8.88
STATION	30+920	30+920
GROUND	8.87	8.87
PAVEMENT	8.87	8.87
GRADE	8.87	8.87
STATION	30+940	30+940
GROUND	8.86	8.86
PAVEMENT	8.86	8.86
GRADE	8.86	8.86
STATION	30+960	30+960
GROUND	8.90	8.90
PAVEMENT	8.90	8.90
GRADE	8.90	8.90
STATION	30+980	30+980
GROUND	8.97	8.97
PAVEMENT	8.97	8.97
GRADE	8.97	8.97
STATION	30+1000	30+1000
GROUND	8.93	8.93
PAVEMENT	8.93	8.93
GRADE	8.93	8.93
STATION	30+1010	30+1010
GROUND	8.94	8.94
PAVEMENT	8.94	8.94
GRADE	8.94	8.94
STATION	30+1020	30+1020
GROUND	8.99	8.99
PAVEMENT	8.99	8.99
GRADE	8.99	8.99
STATION	30+1040	30+1040
GROUND	8.97	8.97
PAVEMENT	8.97	8.97
GRADE	8.97	8.97
STATION	30+1060	30+1060
GROUND	9.05	9.05
PAVEMENT	9.05	9.05
GRADE	9.05	9.05
STATION	30+1080	30+1080
GROUND	9.34	9.34
PAVEMENT	9.42	9.42
GRADE	9.42	9.42
STATION	30+1100	30+1100
GROUND	9.37	9.37
PAVEMENT	9.37	9.37
GRADE	9.37	9.37
STATION	30+1120	30+1120
GROUND	9.06	9.06
PAVEMENT	9.06	9.06
GRADE	9.06	9.06
STATION	30+1140	30+1140
GROUND	9.99	9.99
PAVEMENT	9.99	9.99
GRADE	9.99	9.99
STATION	30+1160	30+1160
GROUND	9.95	9.95
PAVEMENT	9.95	9.95
GRADE	9.95	9.95
STATION	30+1180	30+1180
GROUND	9.98	9.98
PAVEMENT	9.98	9.98
GRADE	9.98	9.98
STATION	30+1200	30+1200
GROUND	9.98	9.98
PAVEMENT	9.98	9.98
GRADE	9.98	9.98
STATION	30+1220	30+1220
GROUND	9.96	9.96
PAVEMENT	9.96	9.96
GRADE	9.96	9.96
STATION	30+1240	30+1240
GROUND	8.91	8.91
PAVEMENT	8.91	8.91
GRADE	8.91	8.91
STATION	30+1260	30+1260
GROUND	8.92	8.92
PAVEMENT	8.92	8.92
GRADE	8.92	8.92
STATION	30+1280	30+1280
GROUND	8.90	8.90
PAVEMENT	8.90	8.90
GRADE	8.90	8.90
STATION	30+1300	30+1300
GROUND	8.96	8.96
PAVEMENT	8.96	8.96
GRADE	8.96	8.96
STATION	30+1320	30+1320
GROUND	8.88	8.88
PAVEMENT	8.88	8.88
GRADE	8.88	8.88
STATION	30+1340	30+1340
GROUND	8.87	8.87
PAVEMENT	8.87	8.87
GRADE	8.87	8.87
STATION	30+1360	30+1360
GROUND	8.94	8.94
PAVEMENT	8.94	8.94
GRADE	8.94	8.94
STATION	30+1380	30+1380
GROUND	8.96	8.96
PAVEMENT	8.96	8.96
GRADE	8.96	8.96
STATION	30+1400	30+1400
GROUND	8.97	8.97
PAVEMENT	8.97	8.97
GRADE	8.97	8.97
STATION	30+1420	30+1420
GROUND	8.99	8.99
PAVEMENT	8.99	8.99
GRADE	8.99	8.99
STATION	30+1440	30+1440
GROUND	9.02	9.02
PAVEMENT	9.02	9.02
GRADE	9.02	9.02
STATION	30+1460	30+1460
GROUND	9.03	9.03
PAVEMENT	9.03	9.03
GRADE	9.03	9.03
STATION	30+1480	30+1480
GROUND	9.01	9.01
PAVEMENT	9.01	9.01
GRADE	9.01	9.01
STATION	30+1500	30+1500
GROUND	9.07	9.07
PAVEMENT	9.07	9.07
GRADE	9.07	9.07

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

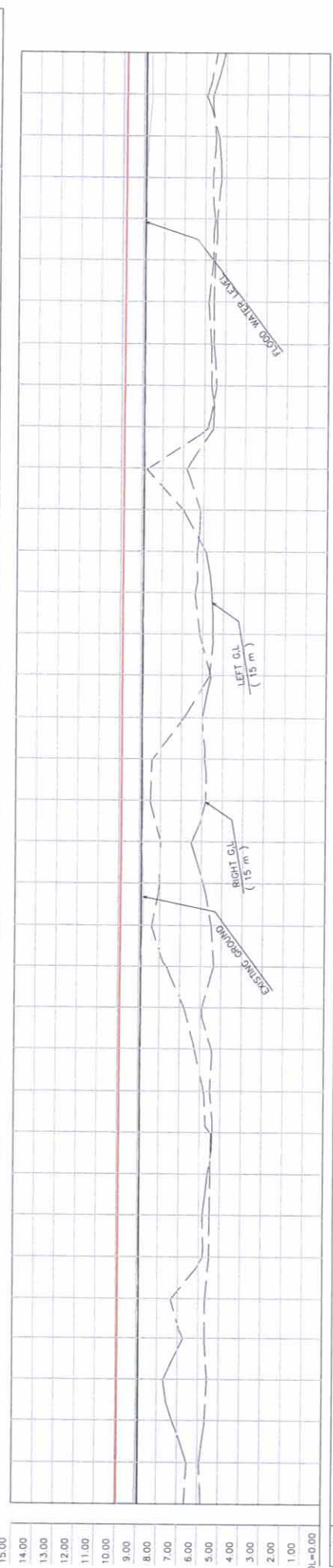
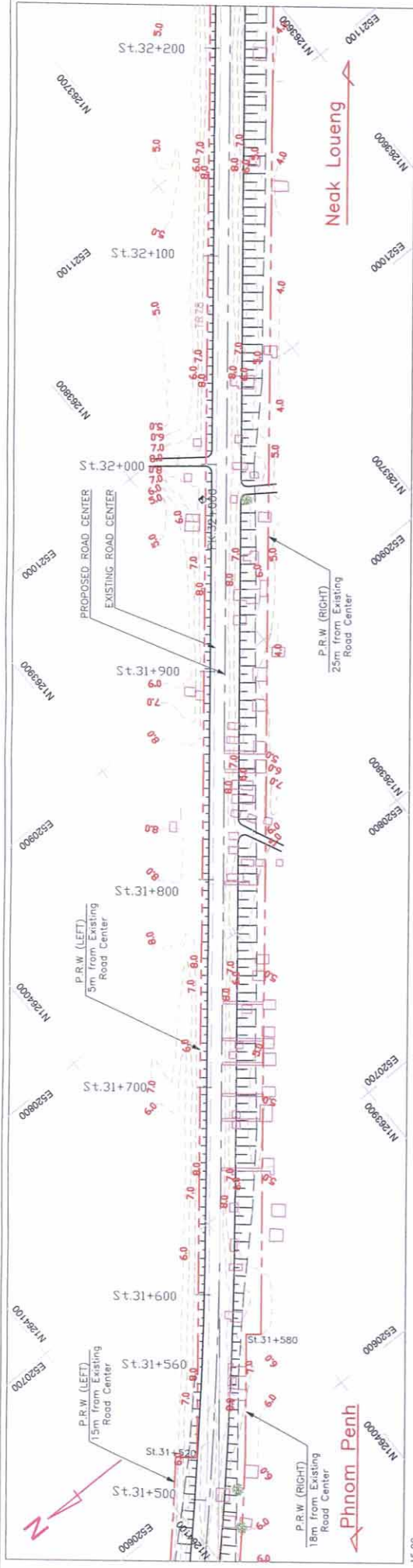
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

TITLE : PLAN AND PROFILE (STA.30+800—STA.31+500)

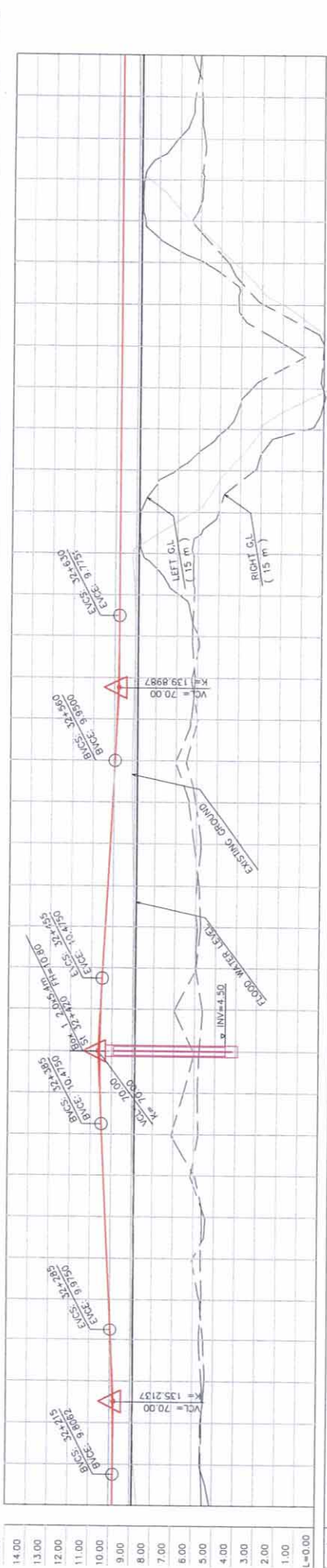
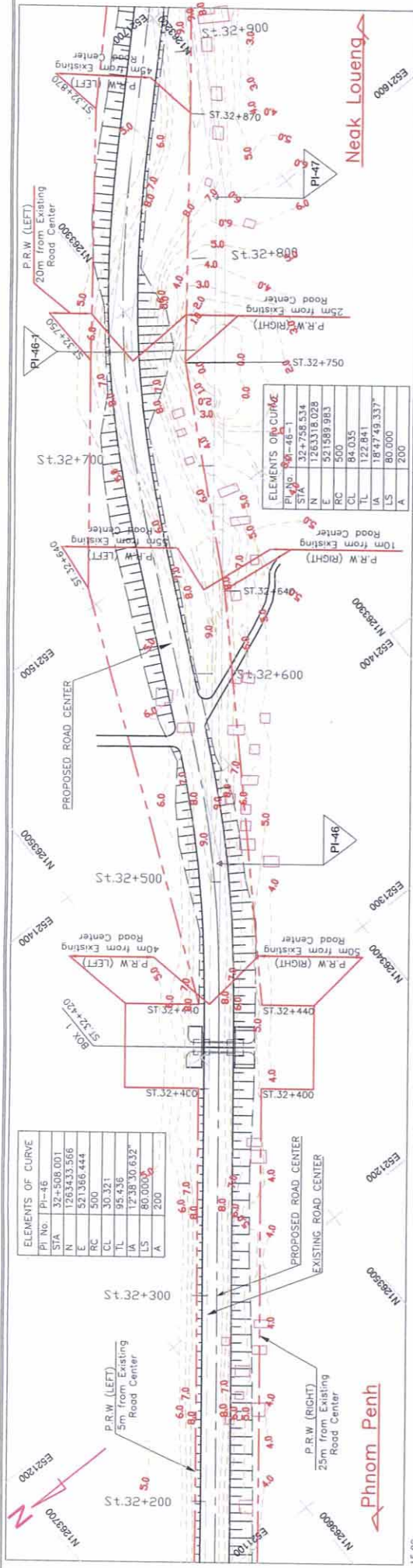
SCALE
H=1/2000
V=1/200

Drawing No.
Sheet No.
PL-45



STATION	GROUND HEIGHT	RIGHT G.L. (15 m)	LEFT G.L. (15 m)	FLOOD WATER LEVEL
-31+500	9.07	9.33	9.33	
-31+520	9.04	9.29	9.29	
-31+540	9.01	9.26	9.26	
-31+560	8.94	9.22	9.22	
-31+580	8.95	9.19	9.19	
-31+600	8.90	9.15	9.15	
-31+620	8.95	9.12	9.12	
-31+640	8.95	9.08	9.08	
-31+660	8.93	9.04	9.04	
-31+680	8.91	9.01	9.01	
-31+700	8.89	8.97	8.97	
-31+720	8.90	8.94	8.94	
-31+740	8.93	8.90	8.90	
-31+760	8.92	8.87	8.87	
-31+780	8.80	8.83	8.83	
-31+800	8.77	8.80	8.80	
-31+820	8.88	8.76	8.76	
-31+840	8.80	8.73	8.73	
-31+860	8.86	8.69	8.69	
-31+880	8.87	8.65	8.65	
-31+900	8.85	8.62	8.62	
-31+920	8.84	8.58	8.58	
-31+940	8.93	8.55	8.55	
-31+960	8.91	8.51	8.51	
-31+980	8.94	8.48	8.48	
-32+000	8.89	8.44	8.44	
-32+020	8.86	8.41	8.41	
-32+040	8.87	8.37	8.37	
-32+060	8.85	8.34	8.34	
-32+080	8.86	8.30	8.30	
-32+100	8.86	8.27	8.27	
-32+120	8.84	8.23	8.23	
-32+140	8.84	8.19	8.19	
-32+160	8.76	8.16	8.16	
-32+180	8.59	8.12	8.12	
-32+200	8.64	8.09	8.09	

TYPE 7
 CROSS SECTION
 SURF- ELEVATION: 3.00, 3.00
 HORIZONTAL CURVATURE: RE, EC
 R_c=2050, L_c=428.059
 TYPE 7
 MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)
 THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA
 JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD
 TITLE : PLAN AND PROFILE (STA.31+500 – STA.32+200)
 SCALE: H=1/2000, V=1/200
 Drawing No. _____ Sheet No. PL-46



CROSS SECTION TYPE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
RC	St.32+200	8.64	9.809	9.809
RC	St.32+220	8.81	9.806	9.806
RC	St.32+240	8.85	9.825	9.825
RC	St.32+260	8.90	9.873	9.873
RC	St.32+280	8.94	9.951	9.951
RC	St.32+300	8.94	10.050	10.050
RC	St.32+320	8.90	10.150	10.150
RC	St.32+340	8.87	10.250	10.250
RC	St.32+360	8.91	10.350	10.350
RC	St.32+380	8.99	10.450	10.450
RC	St.32+400	8.92	10.534	10.534
RC	St.32+420	8.88	10.534	10.534
RC	St.32+440	8.95	10.534	10.534
RC	St.32+460	8.96	10.450	10.450
RC	St.32+480	8.95	10.350	10.350
RC	St.32+500	9.01	10.250	10.250
RC	St.32+520	9.07	10.150	10.150
RC	St.32+540	9.11	10.050	10.050
RC	St.32+560	9.13	9.950	9.950
RC	St.32+580	9.09	9.864	9.864
RC	St.32+600	9.03	9.807	9.807
RC	St.32+620	9.01	9.779	9.779
RC	St.32+640	9.06	9.775	9.775
RC	St.32+660	9.12	9.775	9.775
RC	St.32+680	6.29	9.775	9.775
RC	St.32+700	4.62	9.775	9.775
RC	St.32+720	2.99	9.775	9.775
RC	St.32+740	-0.22	9.776	9.776
RC	St.32+760	-0.31	9.776	9.776
RC	St.32+780	2.02	9.776	9.776
RC	St.32+800	4.38	9.776	9.776
RC	St.32+820	6.45	9.776	9.776
RC	St.32+840	8.43	9.776	9.776
RC	St.32+860	8.95	9.776	9.776
RC	St.32+880	9.02	9.776	9.776
RC	St.32+900	9.05	9.776	9.776

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

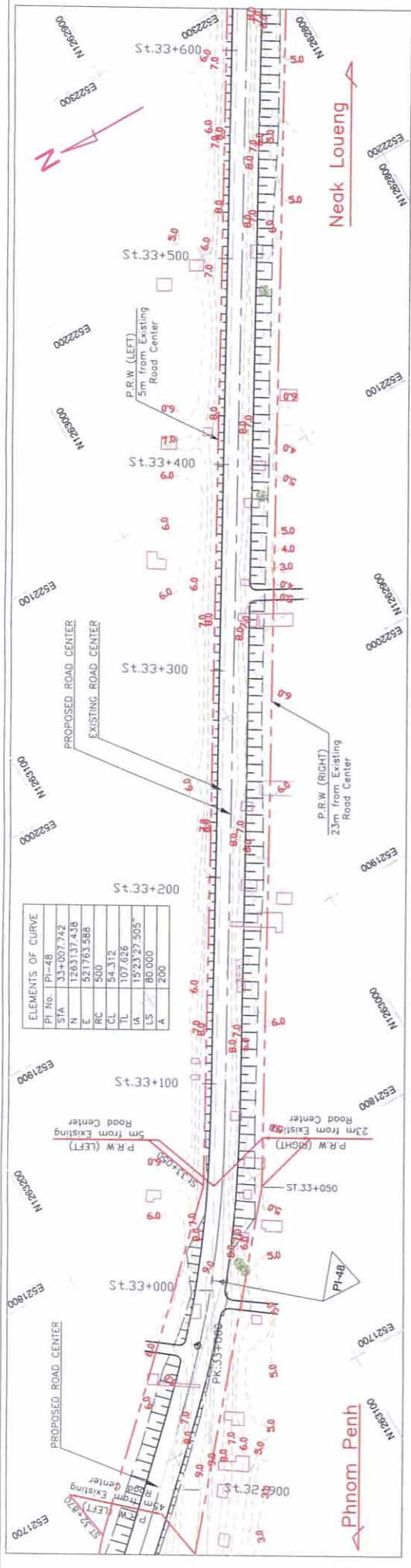
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE (STA.32+200 - STA.32+900)

SCALE H=1/2000 V=1/200

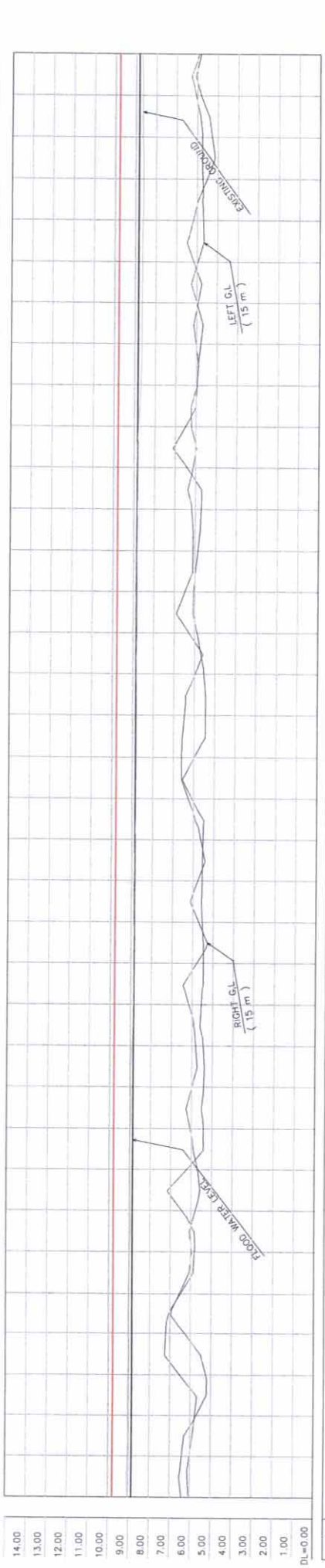
Drawing No. Sheet No. PL-47

TYPE 7



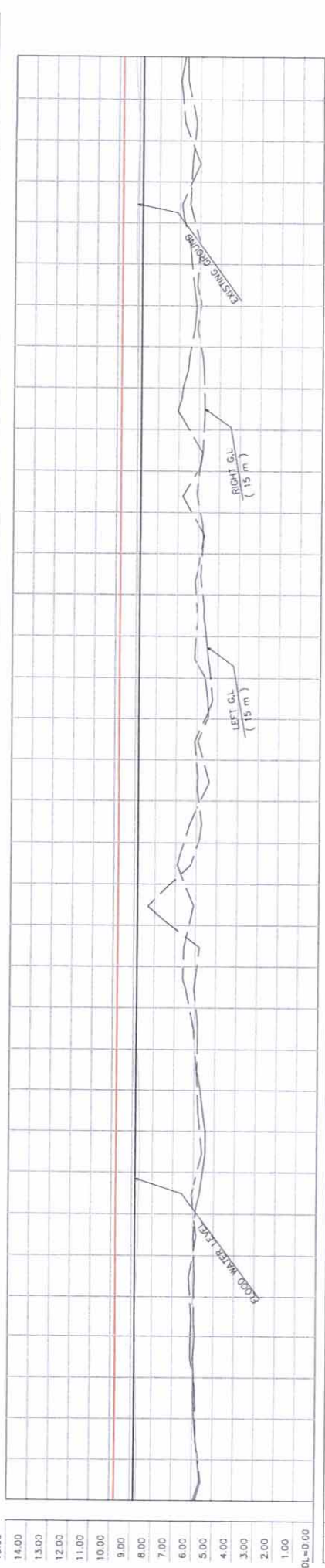
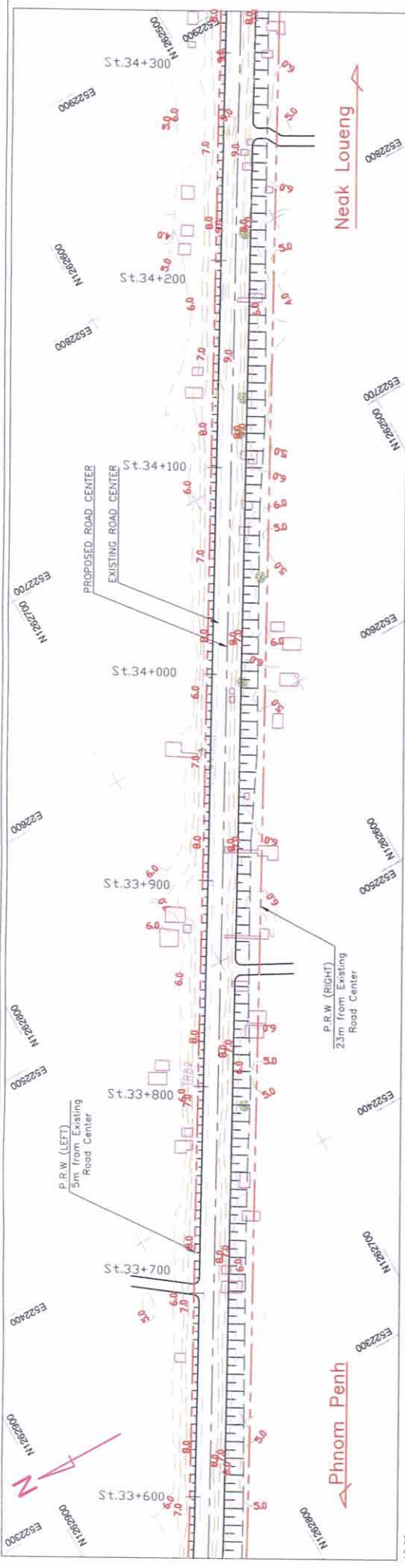
ELEMENTS OF CURVE

PI No.	PI-48
STA	33+007.742
N	1263137.438
E	521763.588
RC	500
CL	64.312
TL	107.658
LA	152327.505°
LS	80.000
A	200



CROSS SECTION TYPE	SURF ELEVATION	HORIZONTAL CURVATURE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	ALIGNMENT
TS	32+901	-3.00	9.776	9.05	9.776	0.000%
BC	32+960	4.00	9.776	9.03	9.776	0.000%
CS	33+040	4.00	9.777	8.98	9.777	0.000%
ST	33+055	4.00	9.777	8.96	9.777	0.000%
ST	33+055	-3.00	9.777	8.96	9.777	0.000%
ST	33+100	-3.00	9.777	8.92	9.777	0.000%
ST	33+140	-3.00	9.777	8.87	9.777	0.000%
ST	33+160	-3.00	9.777	8.85	9.777	0.000%
ST	33+180	-3.00	9.777	8.85	9.777	0.000%
ST	33+200	-3.00	9.777	8.85	9.777	0.000%
ST	33+220	-3.00	9.777	8.83	9.777	0.000%
ST	33+240	-3.00	9.777	8.90	9.777	0.000%
ST	33+260	-3.00	9.777	8.79	9.777	0.000%
ST	33+280	-3.00	9.777	8.80	9.777	0.000%
ST	33+300	-3.00	9.778	8.84	9.778	0.000%
ST	33+320	-3.00	9.778	8.84	9.778	0.000%
ST	33+340	-3.00	9.778	8.84	9.778	0.000%
ST	33+360	-3.00	9.778	8.82	9.778	0.000%
ST	33+380	-3.00	9.778	8.82	9.778	0.000%
ST	33+400	-3.00	9.778	8.84	9.778	0.000%
ST	33+420	-3.00	9.778	8.78	9.778	0.000%
ST	33+440	-3.00	9.778	8.69	9.778	0.000%
ST	33+460	-3.00	9.778	8.66	9.778	0.000%
ST	33+480	-3.00	9.778	8.65	9.778	0.000%
ST	33+500	-3.00	9.778	8.65	9.778	0.000%
ST	33+520	-3.00	9.778	8.63	9.778	0.000%
ST	33+540	-3.00	9.778	8.62	9.778	0.000%
ST	33+560	-3.00	9.778	8.65	9.778	0.000%
ST	33+580	-3.00	9.779	8.67	9.779	0.000%
ST	33+600	-3.00	9.779	8.69	9.779	0.000%

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	TITLE : PLAN AND PROFILE (STA.32+900 – STA.33+600)	SCALE H=1/2000 V=1/200	Drawing No. PL-48
TYPE-7			TYPE-7		



CROSS SECTION TYPE	TYPE-7	
SUPER-ELEVATION	NC	
HORIZONTAL CURVATURE	Rc=∞ L=1268.326	
STATION	GROUND HEIGHT	PAVEMENT HEIGHT
33+600	8.69	9.779
33+620	8.71	9.779
33+640	8.72	9.779
33+660	8.76	9.779
33+680	8.79	9.779
33+700	8.77	9.779
33+720	8.70	9.779
33+740	8.66	9.779
33+760	8.63	9.779
33+780	8.62	9.779
33+800	8.68	9.779
33+820	8.77	9.779
33+840	8.80	9.780
33+860	8.82	9.780
33+880	8.83	9.780
33+900	8.84	9.780
33+920	8.87	9.780
33+940	8.85	9.780
33+960	8.86	9.780
33+980	8.88	9.780
34+000	8.86	9.780
34+020	8.87	9.780
34+040	8.90	9.780
34+060	8.94	9.780
34+080	8.97	9.780
34+100	8.98	9.780
34+120	8.98	9.781
34+140	9.01	9.781
34+160	9.04	9.781
34+180	9.04	9.781
34+200	9.07	9.781
34+220	9.09	9.781
34+240	9.05	9.781
34+260	9.01	9.781
34+280	9.07	9.781
34+300	9.19	9.781

$I=0.000\%$
 $L=4145.00$

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

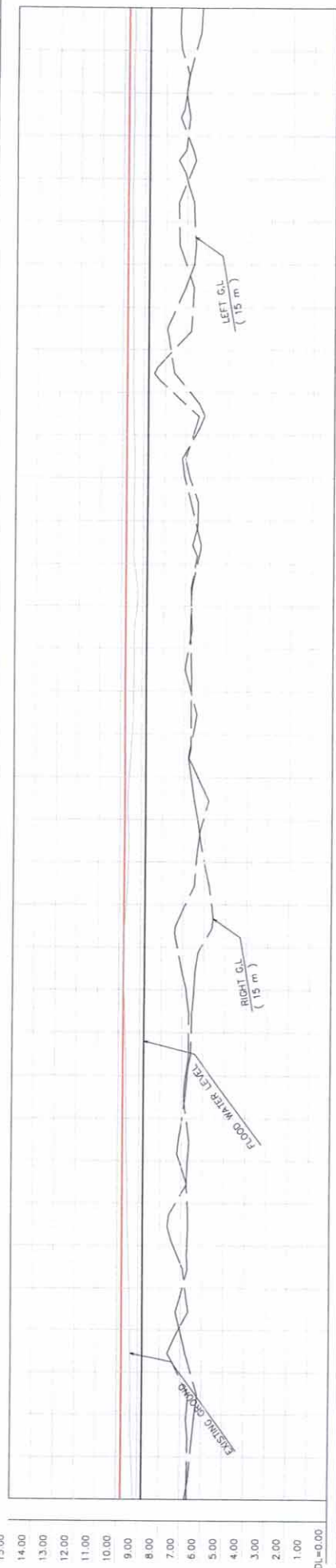
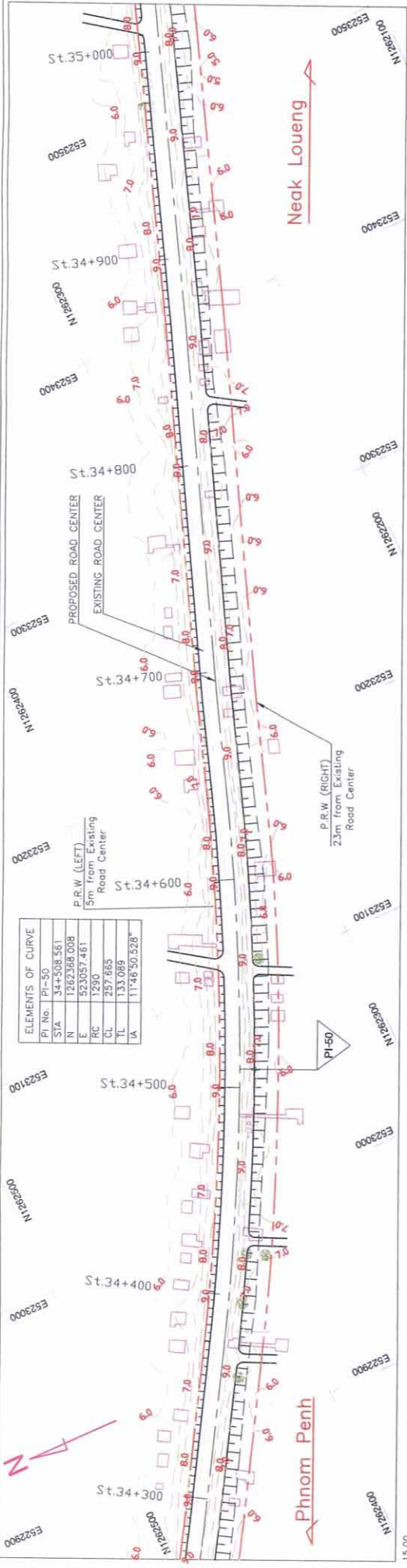
JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL
 CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE
 STA. 33+600 - STA. 34+300

SCALE
 H=1/2000
 V=1/200

Drawing No. _____
 Sheet No. _____
 PL-49

TYPE-7



VERTICAL ALIGNMENT	STATION	GROUND HEIGHT	PROPOSED HEIGHT	VERTICAL CURVATURE
BC	34+500	9.19	9.781	
BC	34+520	9.29	9.781	
BC	34+540	9.34	9.781	
BC	34+560	9.36	9.781	
BC	34+580	9.39	9.781	
BC	34+600	9.43	9.782	
BC	34+620	9.49	9.782	
BC	34+640	9.53	9.782	
BC	34+660	9.58	9.782	
BC	34+680	9.62	9.782	
BC	34+700	9.64	9.782	
BC	34+720	9.68	9.782	
BC	34+740	9.77	9.782	
BC	34+760	9.75	9.782	
BC	34+780	9.75	9.782	
BC	34+800	9.68	9.782	
BC	34+820	9.59	9.782	
BC	34+840	9.59	9.782	
BC	34+860	9.61	9.782	
BC	34+880	9.58	9.782	
BC	34+900	9.45	9.782	
BC	34+920	9.44	9.783	
BC	34+940	9.44	9.783	
BC	34+960	9.49	9.783	
BC	34+980	9.51	9.783	
BC	35+000	9.57	9.783	
EC	34+500	9.53	9.784	
EC	34+520	9.53	9.784	
EC	34+540	9.54	9.784	
EC	34+560	9.54	9.784	
EC	34+580	9.54	9.784	
EC	34+600	9.54	9.784	
EC	34+620	9.54	9.784	
EC	34+640	9.54	9.784	
EC	34+660	9.54	9.784	
EC	34+680	9.54	9.784	
EC	34+700	9.54	9.784	
EC	34+720	9.54	9.784	
EC	34+740	9.54	9.784	
EC	34+760	9.54	9.784	
EC	34+780	9.54	9.784	
EC	34+800	9.54	9.784	
EC	34+820	9.54	9.784	
EC	34+840	9.54	9.784	
EC	34+860	9.54	9.784	
EC	34+880	9.54	9.784	
EC	34+900	9.54	9.784	
EC	34+920	9.54	9.784	
EC	34+940	9.54	9.784	
EC	34+960	9.54	9.784	
EC	34+980	9.54	9.784	
EC	35+000	9.53	9.784	

TYPE-7

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

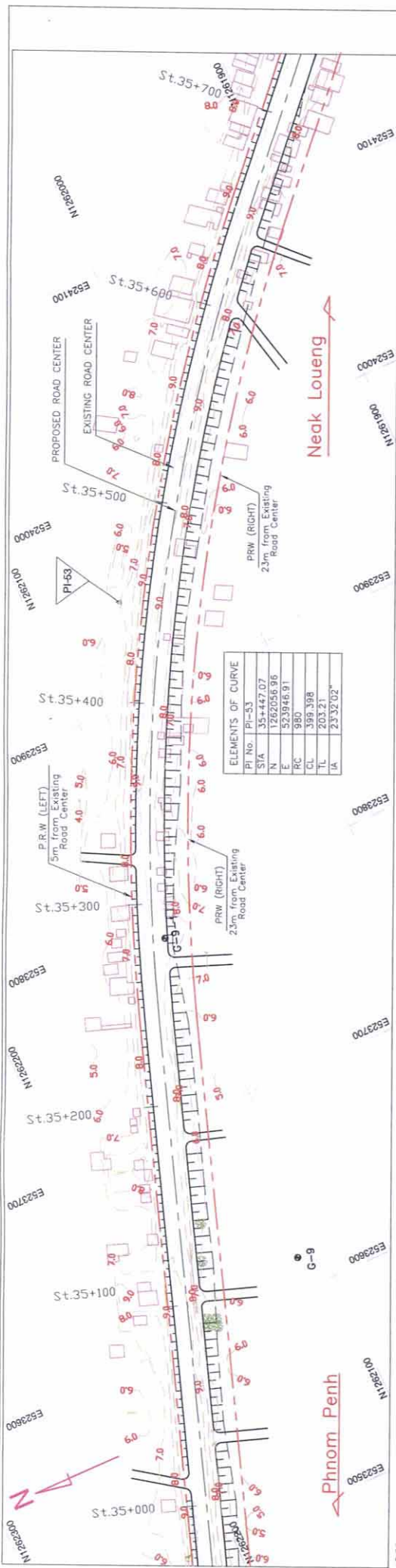
THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

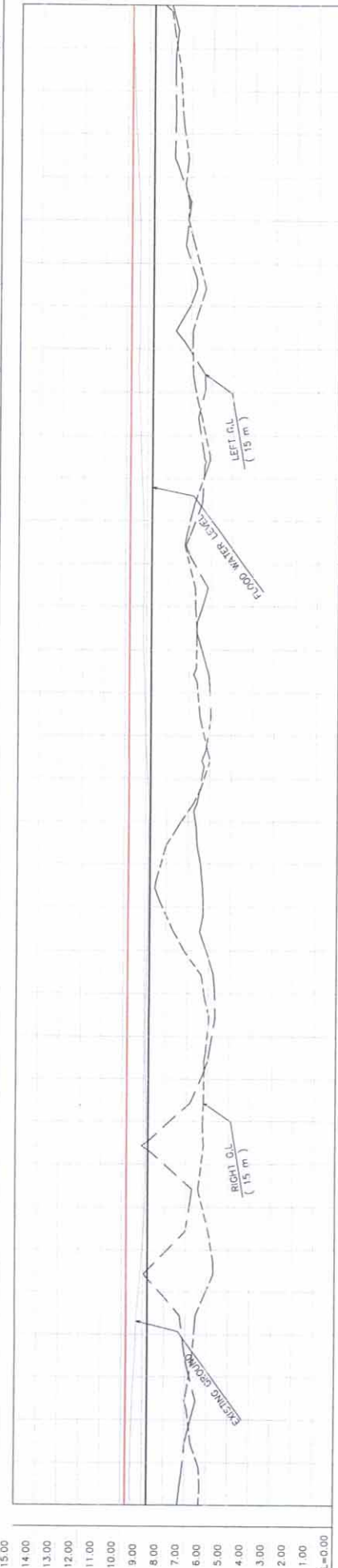
TITLE : PLAN AND PROFILE STA. 34+300 - STA. 35+000

SCALE H=1/2000 V=1/200

Drawing No. Sheet No. 50



ELEMENTS OF CURVE	
PI No.	PI-53
STA	35+447.07
N	1262056.96
E	523946.91
RC	990
CL	399.398
TL	203.21
LA	23°32'02"



TYPE	CROSS SECTION	SUPER-ELEVATION	HORIZONTAL CURVATURE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	PAVEMENT VERTICAL ALIGNMENT
TYPE-7	TYPE-7	NG	Rc=∞ L=610.982	35+000	9.784	9.784	0.00
				35+020	9.54	9.784	0.00
				35+040	9.50	9.784	0.00
				35+060	9.41	9.784	0.00
				35+080	9.33	9.784	0.00
				35+100	9.20	9.784	0.00
				35+120	9.03	9.784	0.00
				35+140	8.92	9.784	0.00
				35+160	8.88	9.784	0.00
				35+180	8.88	9.784	0.00
				35+200	8.91	9.784	0.00
				35+220	8.94	9.784	0.00
				35+240	8.92	9.785	0.00
				35+260	8.88	9.785	0.00
				35+280	8.87	9.785	0.00
				35+300	8.86	9.785	0.00
				35+320	8.84	9.785	0.00
				35+340	8.90	9.785	0.00
				35+360	9.01	9.785	0.00
				35+380	9.07	9.785	0.00
				35+400	9.13	9.785	0.00
				35+420	9.15	9.785	0.00
				35+440	9.13	9.785	0.00
				35+460	9.16	9.785	0.00
				35+480	9.24	9.785	0.00
				35+500	9.32	9.786	0.00
				35+520	9.40	9.786	0.00
				35+540	9.41	9.786	0.00
				35+560	9.41	9.786	0.00
				35+580	9.40	9.786	0.00
				35+600	9.42	9.786	0.00
				35+620	9.49	9.786	0.00
				35+640	9.59	9.786	0.00
				35+660	9.67	9.786	0.00
				35+680	9.74	9.786	0.00
				35+700	9.79	9.786	0.00

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

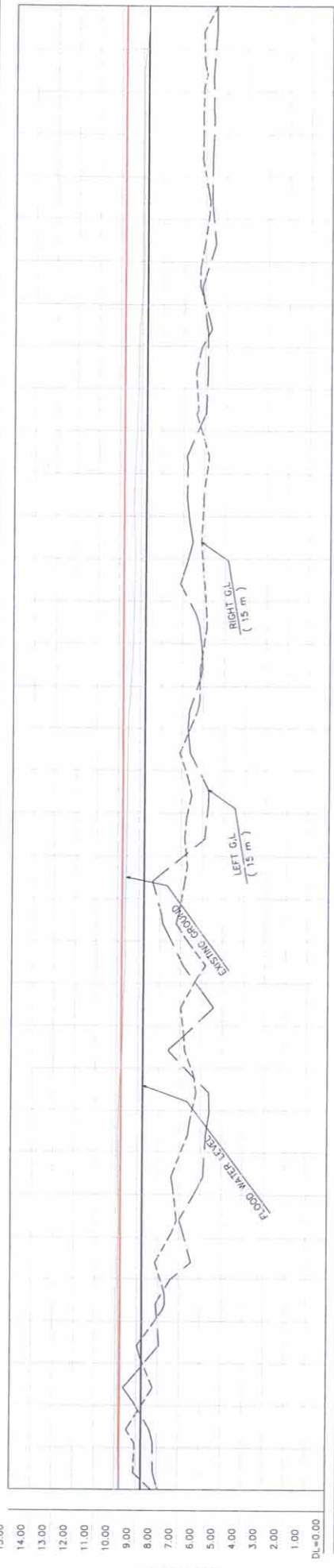
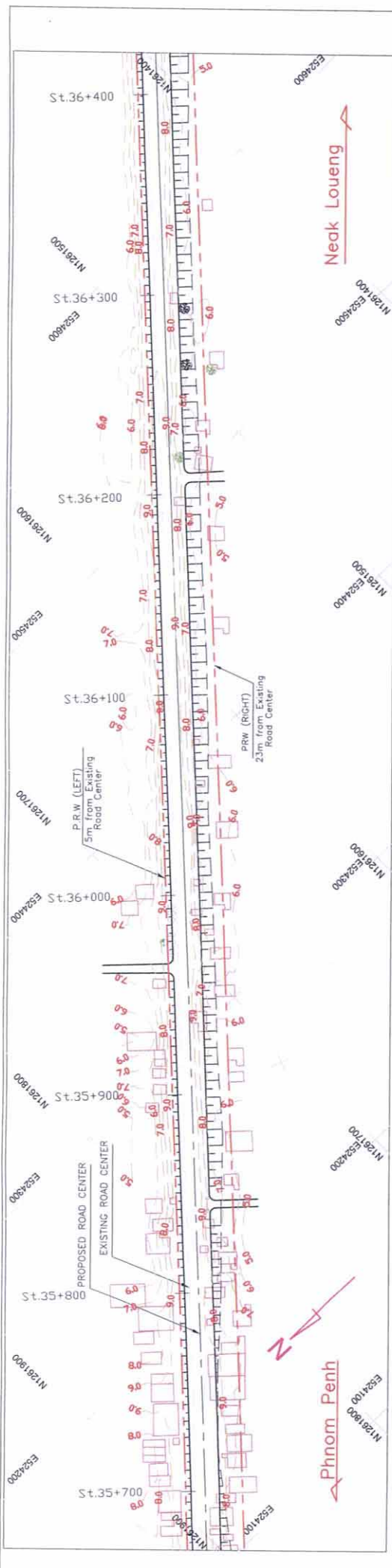
THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE STA.35+000 - STA.35+700

SCALE H=1/2000 V=1/200

Drawing No. Sheet No. 51



CROSS SECTION TYPE	TYPE=7	
SUPER-ELEVATION	NC	
HORIZONTAL CURVATURE	R=∞	
STATION	L=1550.018	
GROUND HEIGHT	I=0.0005%	
PROFICIENT HEIGHT	L=4145.00	
VERTICAL ALIGNMENT		
9.786	-35+700	9.786
9.786	-35+720	9.83
9.786	-35+740	9.86
9.786	-35+760	9.86
9.787	-35+780	9.87
9.787	-35+800	9.90
9.787	-35+820	9.88
9.787	-35+840	9.88
9.787	-35+860	9.91
9.787	-35+880	9.89
9.787	-35+900	9.80
9.787	-35+920	9.71
9.787	-35+940	9.66
9.787	-35+960	9.64
9.787	-35+980	9.63
9.787	-36+000	9.60
9.787	-36+020	9.57
9.787	-36+040	9.56
9.788	-36+060	9.54
9.788	-36+080	9.43
9.788	-36+100	9.33
9.788	-36+120	9.29
9.788	-36+140	9.28
9.788	-36+160	9.32
9.788	-36+180	9.29
9.788	-36+200	9.21
9.788	-36+220	9.15
9.788	-36+240	9.12
9.788	-36+260	9.01
9.788	-36+280	8.94
9.788	-36+300	8.94
9.788	-36+320	8.95
9.789	-36+340	8.94
9.789	-36+360	8.95
9.789	-36+380	8.84
9.789	-36+400	8.76

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

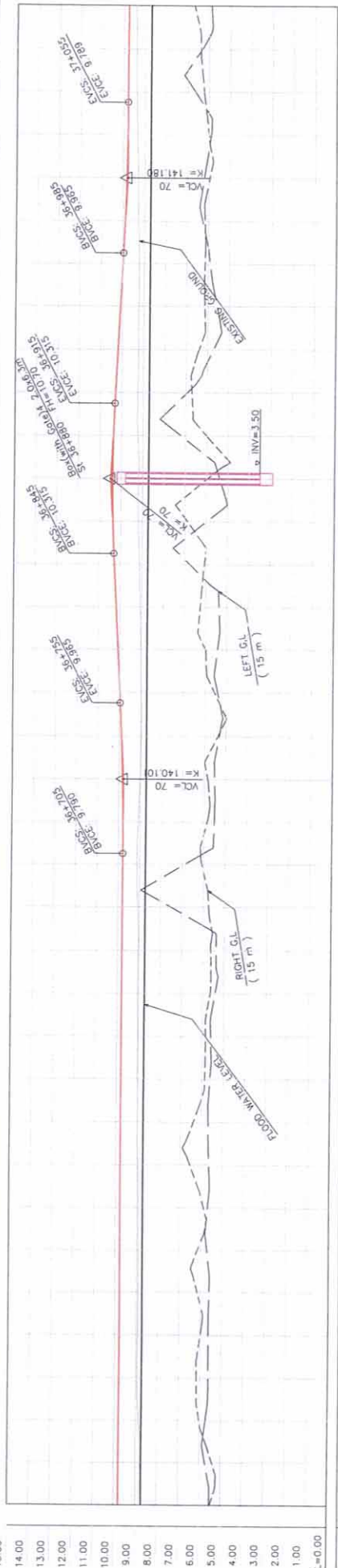
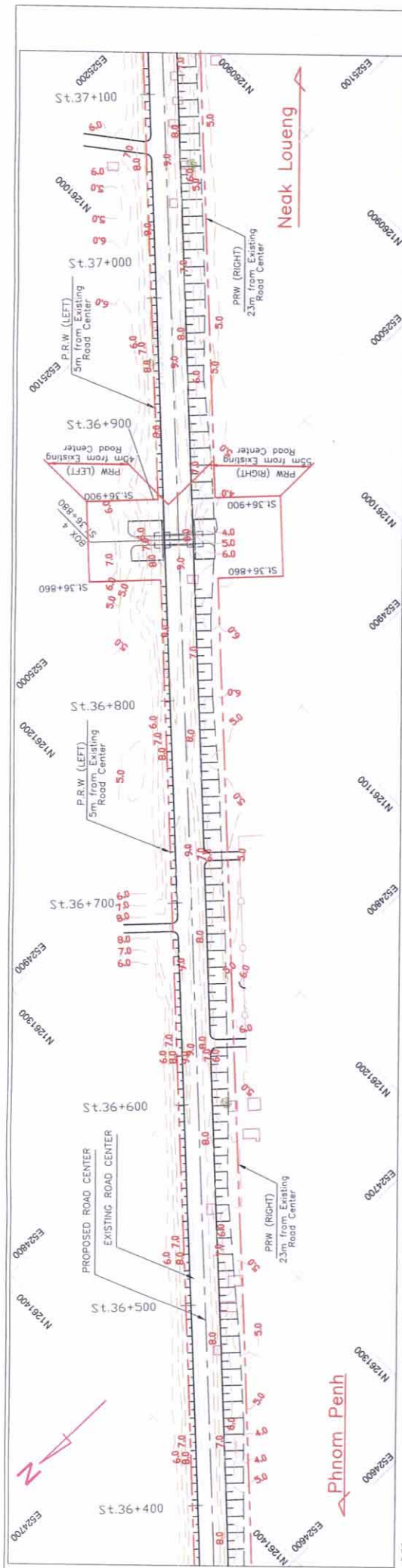
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE STA.35+700 - STA.36+400

SCALE H=1/2000 V=1/200

Drawing No. Sheet No. 52

TYPE=7



CROSS SECTION TYPE	TYPE-7	
SURF-ELEVATION	NC	
HORIZONTAL CURVATURE	Rc=∞ L=1550.018	
GROUND ELEVATION	9.789	9.789
STATION	36+400	36+420
GROUND HEIGHT	8.76	8.78
STATION	36+440	8.85
GROUND HEIGHT	8.93	9.789
STATION	36+460	8.93
GROUND HEIGHT	8.93	9.789
STATION	36+480	8.92
GROUND HEIGHT	8.92	9.789
STATION	36+500	8.92
GROUND HEIGHT	8.92	9.789
STATION	36+520	8.93
GROUND HEIGHT	8.93	9.789
STATION	36+540	8.93
GROUND HEIGHT	8.93	9.789
STATION	36+560	8.96
GROUND HEIGHT	8.96	9.789
STATION	36+580	8.99
GROUND HEIGHT	8.99	9.789
STATION	36+600	9.02
GROUND HEIGHT	9.02	9.789
STATION	36+620	9.02
GROUND HEIGHT	9.02	9.790
STATION	36+640	9.04
GROUND HEIGHT	9.04	9.790
STATION	36+660	9.03
GROUND HEIGHT	9.03	9.790
STATION	36+680	9.07
GROUND HEIGHT	9.07	9.790
STATION	36+700	9.12
GROUND HEIGHT	9.12	9.790
STATION	36+720	9.08
GROUND HEIGHT	9.08	9.798
STATION	36+740	9.01
GROUND HEIGHT	9.01	9.834
STATION	36+760	9.06
GROUND HEIGHT	9.06	9.898
STATION	36+780	8.98
GROUND HEIGHT	8.98	9.990
STATION	36+800	9.02
GROUND HEIGHT	9.02	10.090
STATION	36+820	9.06
GROUND HEIGHT	9.06	10.190
STATION	36+840	9.11
GROUND HEIGHT	9.11	10.290
STATION	36+860	9.17
GROUND HEIGHT	9.17	10.374
STATION	36+880	9.18
GROUND HEIGHT	9.18	10.402
STATION	36+900	9.23
GROUND HEIGHT	9.23	10.374
STATION	36+920	9.25
GROUND HEIGHT	9.25	10.290
STATION	36+940	9.22
GROUND HEIGHT	9.22	10.190
STATION	36+960	9.23
GROUND HEIGHT	9.23	10.090
STATION	36+980	9.24
GROUND HEIGHT	9.24	9.990
STATION	37+000	9.28
GROUND HEIGHT	9.28	9.898
STATION	37+020	9.31
GROUND HEIGHT	9.31	9.833
STATION	37+040	9.35
GROUND HEIGHT	9.35	9.797
STATION	37+060	9.38
GROUND HEIGHT	9.38	9.788
STATION	37+080	9.40
GROUND HEIGHT	9.40	9.787
STATION	37+100	9.42
GROUND HEIGHT	9.42	9.787

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

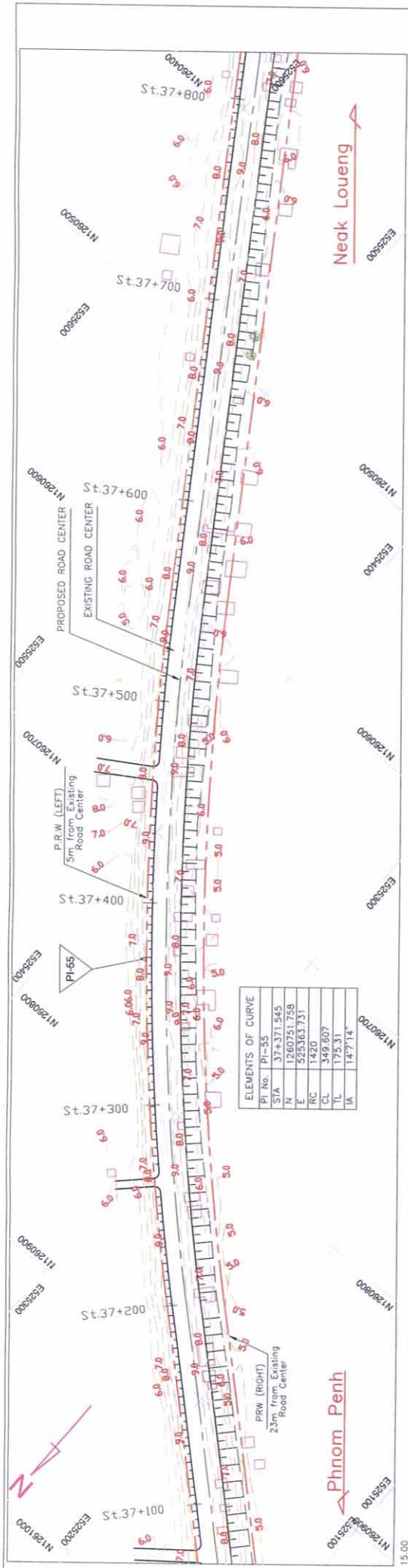
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE STA.36+400 - STA.37+100

SCALE H=1/2000 V=1/200

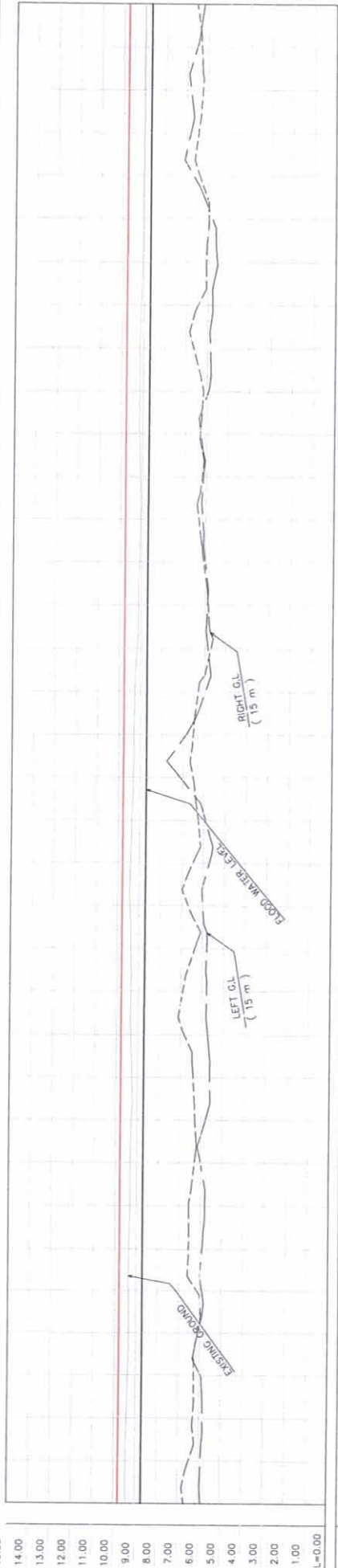
Drawing No. Sheet No. 53

TYPE-7



ELEMENTS OF CURVE

PI No.	PI=55
S/A	37+371.545
N	1280751.758
E	523363.731
RC	1420
CL	349.607
TL	175.31
LA	147.714



CROSS SECTION TYPE	TYPE-7	TYPE-7
SURFACE ELEVATION	3.00 - 3.00	3.00 - 3.00
GROUND ELEVATION	3.00 - 3.00	3.00 - 3.00
STATION	37+100	37+800
PAVEMENT HEIGHT	9.42	9.757
GROUND HEIGHT	9.44	9.786
STATION	37+120	37+140
PAVEMENT HEIGHT	9.41	9.785
GROUND HEIGHT	9.36	9.784
STATION	37+160	37+180
PAVEMENT HEIGHT	9.36	9.784
GROUND HEIGHT	9.33	9.783
STATION	37+200	37+220
PAVEMENT HEIGHT	9.35	9.782
GROUND HEIGHT	9.33	9.782
STATION	37+240	37+260
PAVEMENT HEIGHT	9.30	9.781
GROUND HEIGHT	9.29	9.780
STATION	37+280	37+300
PAVEMENT HEIGHT	9.26	9.778
GROUND HEIGHT	9.26	9.779
STATION	37+320	37+340
PAVEMENT HEIGHT	9.32	9.777
GROUND HEIGHT	9.32	9.777
STATION	37+360	37+380
PAVEMENT HEIGHT	9.35	9.776
GROUND HEIGHT	9.40	9.775
STATION	37+400	37+420
PAVEMENT HEIGHT	9.40	9.774
GROUND HEIGHT	9.35	9.773
STATION	37+440	37+460
PAVEMENT HEIGHT	9.31	9.772
GROUND HEIGHT	9.31	9.772
STATION	37+480	37+500
PAVEMENT HEIGHT	9.26	9.771
GROUND HEIGHT	9.17	9.770
STATION	37+520	37+540
PAVEMENT HEIGHT	9.12	9.769
GROUND HEIGHT	9.09	9.768
STATION	37+560	37+580
PAVEMENT HEIGHT	9.05	9.767
GROUND HEIGHT	9.08	9.767
STATION	37+600	37+620
PAVEMENT HEIGHT	9.13	9.766
GROUND HEIGHT	9.13	9.766
STATION	37+640	37+660
PAVEMENT HEIGHT	9.16	9.764
GROUND HEIGHT	9.15	9.765
STATION	37+680	37+700
PAVEMENT HEIGHT	9.07	9.762
GROUND HEIGHT	9.07	9.762
STATION	37+720	37+740
PAVEMENT HEIGHT	9.03	9.761
GROUND HEIGHT	9.01	9.760
STATION	37+760	37+780
PAVEMENT HEIGHT	9.02	9.759
GROUND HEIGHT	9.01	9.758
STATION	37+800	37+800
PAVEMENT HEIGHT	9.00	9.757
GROUND HEIGHT	9.00	9.757

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

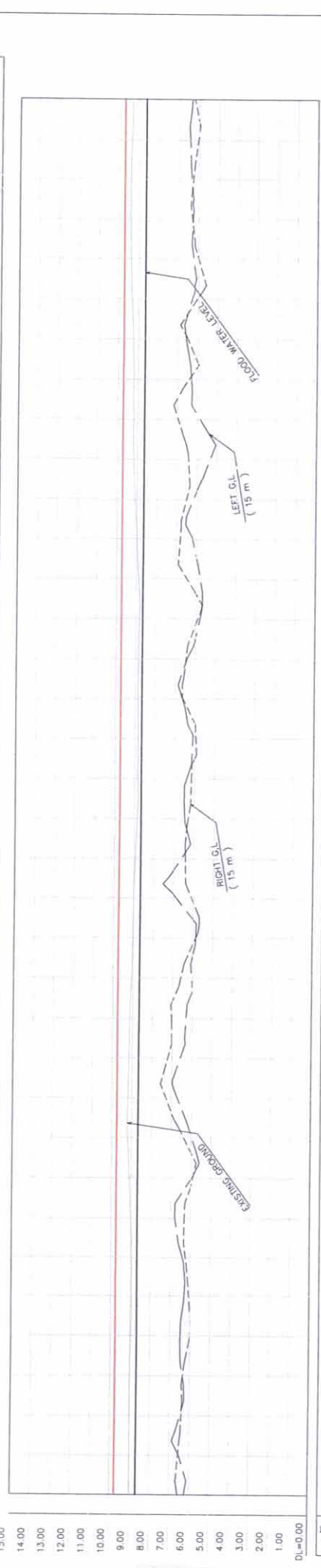
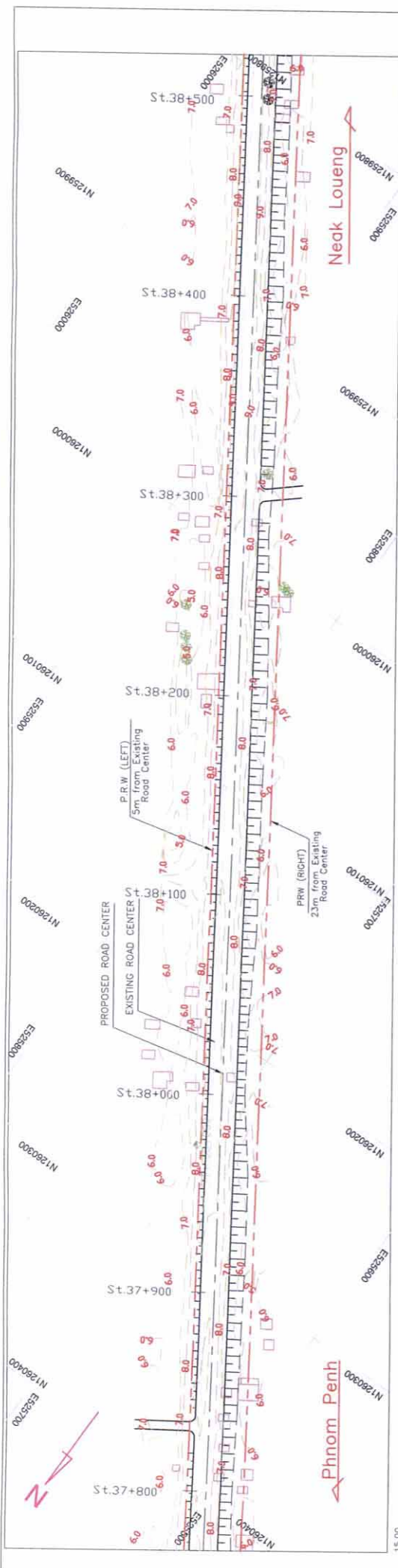
THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL
CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE
STA.37+100 - STA.37+800

SCALE
H=1/2000
V=1/200

Drawing No.
Sheet No.
54



CROSS SECTION TYPE	SUPER-ELEVATION	HORIZONTAL CURVATURE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
			37+800	9.00	9.757	
			37+820	9.00	9.757	
			37+840	9.01	9.756	
			37+860	9.01	9.755	
			37+880	8.97	9.754	
			37+900	8.94	9.753	
			37+920	8.94	9.752	
			37+940	9.01	9.752	
			37+960	9.10	9.751	
			37+980	9.19	9.750	
			38+000	9.19	9.749	
			38+020	9.16	9.748	
			38+040	9.13	9.747	
			38+060	9.07	9.747	
			38+080	9.03	9.746	
			38+100	9.01	9.745	
			38+120	8.95	9.744	
			38+140	8.86	9.743	
			38+160	8.84	9.742	
			38+180	8.85	9.742	
			38+200	8.86	9.741	
			38+220	8.86	9.740	
			38+240	8.83	9.739	
			38+260	8.89	9.738	
			38+280	8.99	9.737	
			38+300	9.10	9.737	
			38+320	9.19	9.736	
			38+340	9.21	9.735	
			38+360	9.22	9.734	
			38+380	9.26	9.733	
			38+400	9.33	9.732	
			38+420	9.39	9.732	
			38+440	9.43	9.731	
			38+460	9.42	9.730	
			38+480	9.38	9.729	
			38+500	9.35	9.728	

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

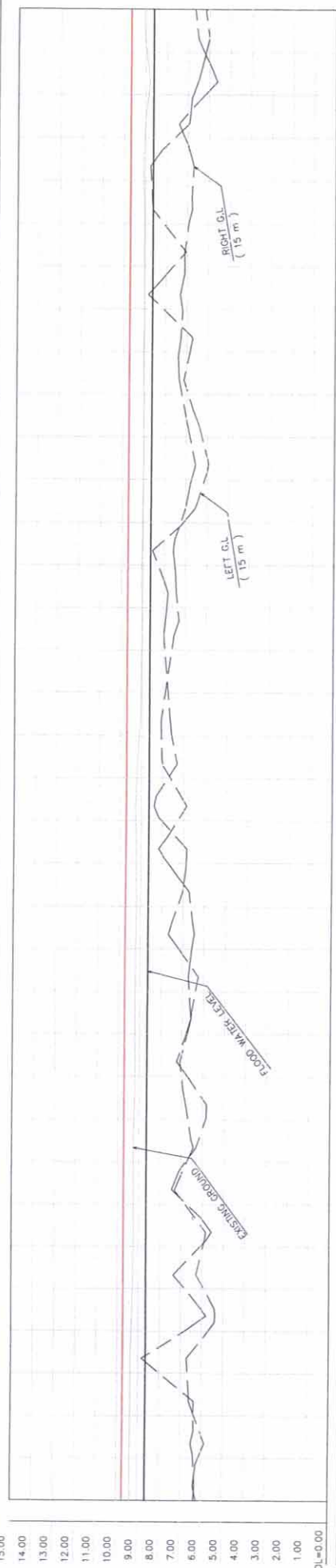
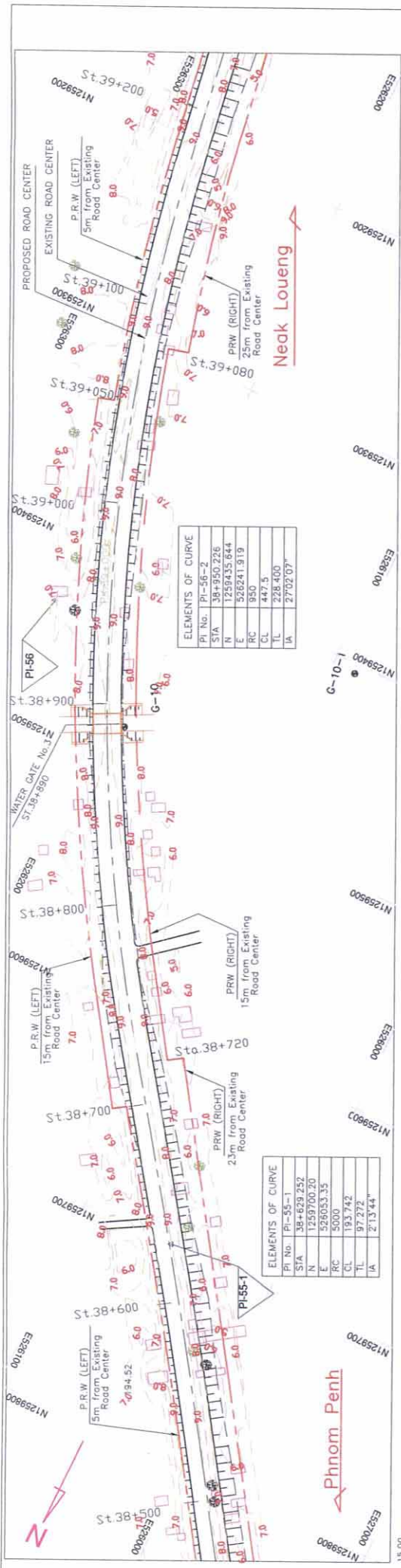
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE STA.37+800 - STA.38+500

SCALE H=1/2000 V=1/200

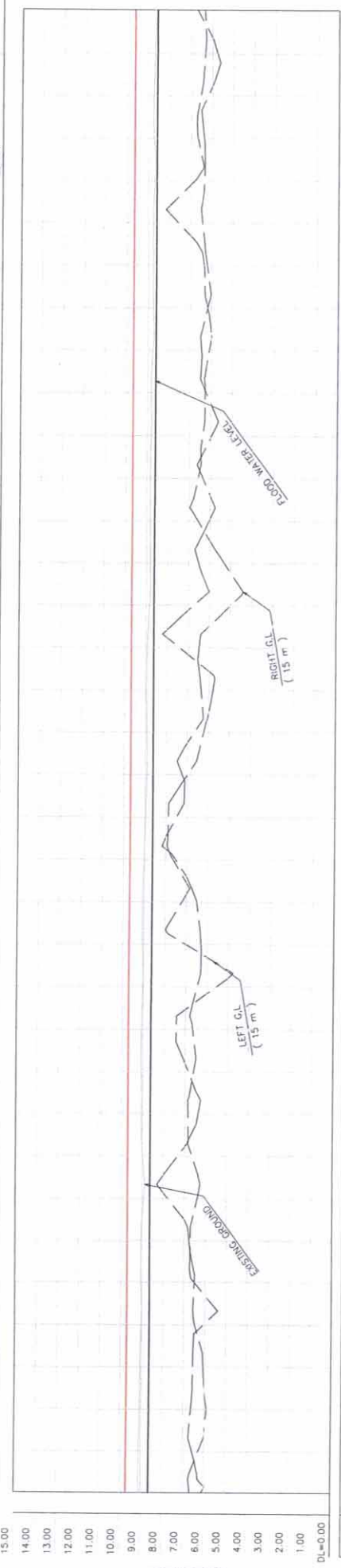
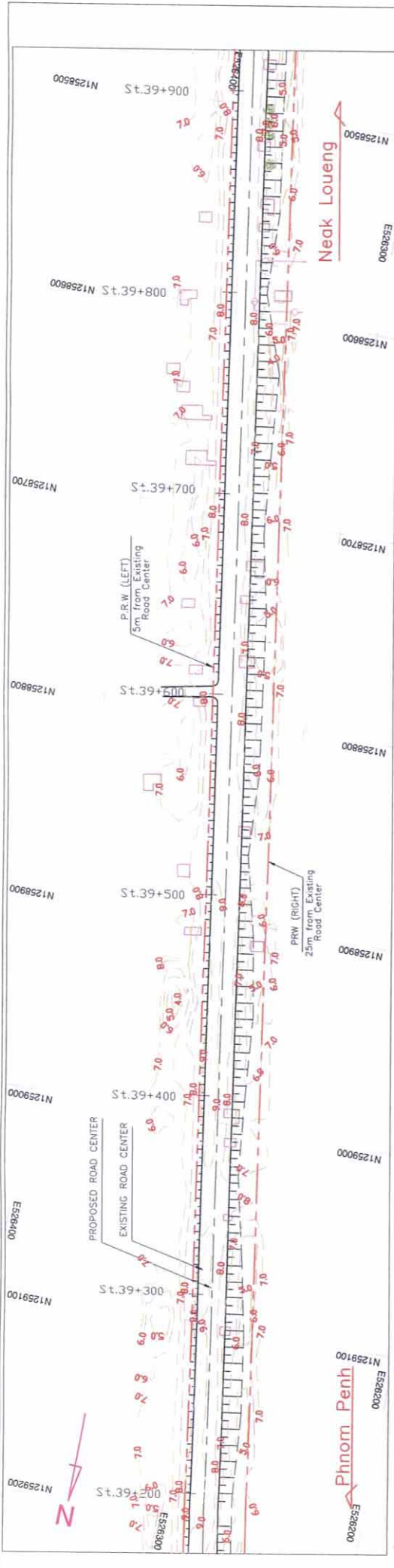
Drawing No. Sheet No. 55

TYPE-7



CROSS SECTION TYPE	TYPE-6
STATION	38+500
GROUND HEIGHT	9.35
PAVEMENT HEIGHT	9.36
VERTICAL ALIGNMENT	9.35
STATION	38+520
GROUND HEIGHT	9.37
PAVEMENT HEIGHT	9.38
VERTICAL ALIGNMENT	9.37
STATION	38+540
GROUND HEIGHT	9.37
PAVEMENT HEIGHT	9.38
VERTICAL ALIGNMENT	9.37
STATION	38+560
GROUND HEIGHT	9.33
PAVEMENT HEIGHT	9.34
VERTICAL ALIGNMENT	9.33
STATION	38+580
GROUND HEIGHT	9.27
PAVEMENT HEIGHT	9.28
VERTICAL ALIGNMENT	9.27
STATION	38+600
GROUND HEIGHT	9.25
PAVEMENT HEIGHT	9.26
VERTICAL ALIGNMENT	9.25
STATION	38+620
GROUND HEIGHT	9.25
PAVEMENT HEIGHT	9.26
VERTICAL ALIGNMENT	9.25
STATION	38+640
GROUND HEIGHT	9.22
PAVEMENT HEIGHT	9.23
VERTICAL ALIGNMENT	9.22
STATION	38+660
GROUND HEIGHT	9.21
PAVEMENT HEIGHT	9.22
VERTICAL ALIGNMENT	9.21
STATION	38+680
GROUND HEIGHT	9.24
PAVEMENT HEIGHT	9.25
VERTICAL ALIGNMENT	9.24
STATION	38+700
GROUND HEIGHT	9.22
PAVEMENT HEIGHT	9.23
VERTICAL ALIGNMENT	9.22
STATION	38+720
GROUND HEIGHT	9.21
PAVEMENT HEIGHT	9.22
VERTICAL ALIGNMENT	9.21
STATION	38+740
GROUND HEIGHT	9.23
PAVEMENT HEIGHT	9.24
VERTICAL ALIGNMENT	9.23
STATION	38+760
GROUND HEIGHT	9.22
PAVEMENT HEIGHT	9.23
VERTICAL ALIGNMENT	9.22
STATION	38+780
GROUND HEIGHT	9.21
PAVEMENT HEIGHT	9.22
VERTICAL ALIGNMENT	9.21
STATION	38+800
GROUND HEIGHT	9.23
PAVEMENT HEIGHT	9.24
VERTICAL ALIGNMENT	9.23
STATION	38+820
GROUND HEIGHT	9.27
PAVEMENT HEIGHT	9.28
VERTICAL ALIGNMENT	9.27
STATION	38+840
GROUND HEIGHT	9.24
PAVEMENT HEIGHT	9.25
VERTICAL ALIGNMENT	9.24
STATION	38+860
GROUND HEIGHT	9.12
PAVEMENT HEIGHT	9.13
VERTICAL ALIGNMENT	9.12
STATION	38+880
GROUND HEIGHT	9.05
PAVEMENT HEIGHT	9.06
VERTICAL ALIGNMENT	9.05
STATION	38+900
GROUND HEIGHT	9.03
PAVEMENT HEIGHT	9.04
VERTICAL ALIGNMENT	9.03
STATION	38+920
GROUND HEIGHT	9.04
PAVEMENT HEIGHT	9.05
VERTICAL ALIGNMENT	9.04
STATION	38+940
GROUND HEIGHT	9.05
PAVEMENT HEIGHT	9.06
VERTICAL ALIGNMENT	9.05
STATION	38+960
GROUND HEIGHT	9.03
PAVEMENT HEIGHT	9.04
VERTICAL ALIGNMENT	9.03
STATION	38+980
GROUND HEIGHT	9.01
PAVEMENT HEIGHT	9.02
VERTICAL ALIGNMENT	9.01
STATION	39+000
GROUND HEIGHT	9.00
PAVEMENT HEIGHT	9.01
VERTICAL ALIGNMENT	9.00
STATION	39+020
GROUND HEIGHT	9.06
PAVEMENT HEIGHT	9.07
VERTICAL ALIGNMENT	9.06
STATION	39+040
GROUND HEIGHT	9.03
PAVEMENT HEIGHT	9.04
VERTICAL ALIGNMENT	9.03
STATION	39+060
GROUND HEIGHT	9.01
PAVEMENT HEIGHT	9.02
VERTICAL ALIGNMENT	9.01
STATION	39+080
GROUND HEIGHT	9.02
PAVEMENT HEIGHT	9.03
VERTICAL ALIGNMENT	9.02
STATION	39+100
GROUND HEIGHT	9.03
PAVEMENT HEIGHT	9.04
VERTICAL ALIGNMENT	9.03
STATION	39+120
GROUND HEIGHT	9.08
PAVEMENT HEIGHT	9.09
VERTICAL ALIGNMENT	9.08
STATION	39+140
GROUND HEIGHT	9.04
PAVEMENT HEIGHT	9.05
VERTICAL ALIGNMENT	9.04
STATION	39+160
GROUND HEIGHT	8.85
PAVEMENT HEIGHT	8.86
VERTICAL ALIGNMENT	8.85
STATION	39+180
GROUND HEIGHT	8.96
PAVEMENT HEIGHT	8.97
VERTICAL ALIGNMENT	8.96
STATION	39+200
GROUND HEIGHT	9.09
PAVEMENT HEIGHT	9.10
VERTICAL ALIGNMENT	9.09
HORIZONTAL CURVATURE	BC Rc=5000 L=984.683
HORIZONTAL CURVATURE	EC Rc=950 Lc=447.500
SURFACE ELEVATION	38+701.476 38+751.476 3.00 3.00
SURFACE ELEVATION	39+149.425 3.00 3.00
GRADIENT	NG e=3%

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD	TITLE :	PLAN AND PROFILE	SCALE	Drawing No.
				STA.38+500 - STA.39+200	H=1/2000 V=1/200	Sheet No. 56



CROSS SECTION TYPE	SURF. ELEVATION	HORIZONTAL CURVATURE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT
TYPE-9	3.00		39+200	9.699	9.699
	3.00		39+220	9.698	9.698
	3.00		39+240	9.697	9.697
			39+260	9.696	9.696
			39+280	9.696	9.696
			39+300	9.695	9.695
			39+320	9.694	9.694
			39+340	9.693	9.693
			39+360	9.692	9.692
			39+380	9.691	9.691
			39+400	9.691	9.691
			39+420	9.690	9.690
			39+440	9.689	9.689
			39+460	9.688	9.688
			39+480	9.687	9.687
			39+500	9.686	9.686
			39+520	9.686	9.686
			39+540	9.685	9.685
			39+560	9.684	9.684
			39+580	9.683	9.683
			39+600	9.682	9.682
			39+620	9.681	9.681
			39+640	9.681	9.681
			39+660	9.680	9.680
			39+680	9.679	9.679
			39+700	9.678	9.678
			39+720	9.677	9.677
			39+740	9.676	9.676
			39+760	9.676	9.676
			39+780	9.675	9.675
			39+800	9.674	9.674
			39+820	9.673	9.673
			39+840	9.672	9.672
			39+860	9.671	9.671
			39+880	9.671	9.671
			39+900	9.670	9.670

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

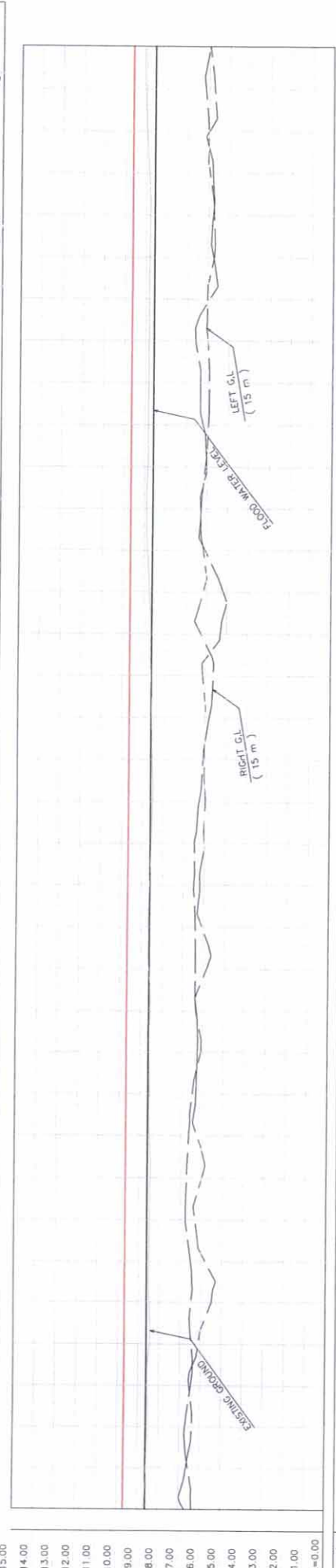
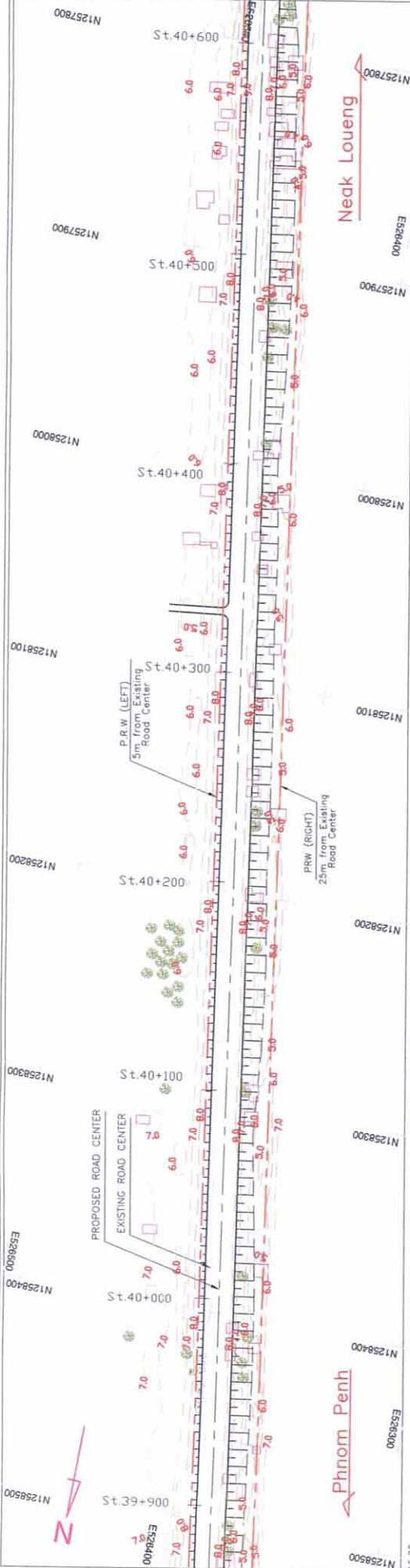
JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL
CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE
STA.39+200 - STA.39+900

SCALE
H=1/2000
V=1/200

Drawing No. _____
Sheet No. 57

TYPE-6



CROSS SECTION TYPE	SUPER-ELEVATION	HORIZONTAL CURVATURE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
TYPE-6			+39+900	8.67	9.670	
			+39+920	8.58	9.669	
			+39+940	8.53	9.668	
			+39+960	8.54	9.667	
			+39+980	8.46	9.666	
			+40+000	8.48	9.666	
			+40+020	8.50	9.665	
			+40+040	8.48	9.664	
			+40+060	8.46	9.663	
			+40+080	8.51	9.662	
			+40+100	8.53	9.661	
			+40+120	8.55	9.660	
			+40+140	8.52	9.660	
			+40+160	8.62	9.659	
			+40+180	8.67	9.658	
			+40+200	8.61	9.657	
			+40+220	8.55	9.656	
			+40+240	8.50	9.655	
			+40+260	8.52	9.655	
			+40+280	8.57	9.654	
			+40+300	8.61	9.653	
			+40+320	8.65	9.652	
			+40+340	8.72	9.651	
			+40+360	8.82	9.650	
			+40+380	8.88	9.650	
			+40+400	8.84	9.649	
			+40+420	8.83	9.648	
			+40+440	8.84	9.647	
			+40+460	8.84	9.646	
			+40+480	8.84	9.645	
			+40+500	8.83	9.645	
			+40+520	8.80	9.644	
			+40+540	8.87	9.643	
			+40+560	8.98	9.642	
			+40+580	9.07	9.641	
			+40+600	9.10	9.640	

TYPE-6

Rc=∞
L=1790.993

NC

TYPE-6

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

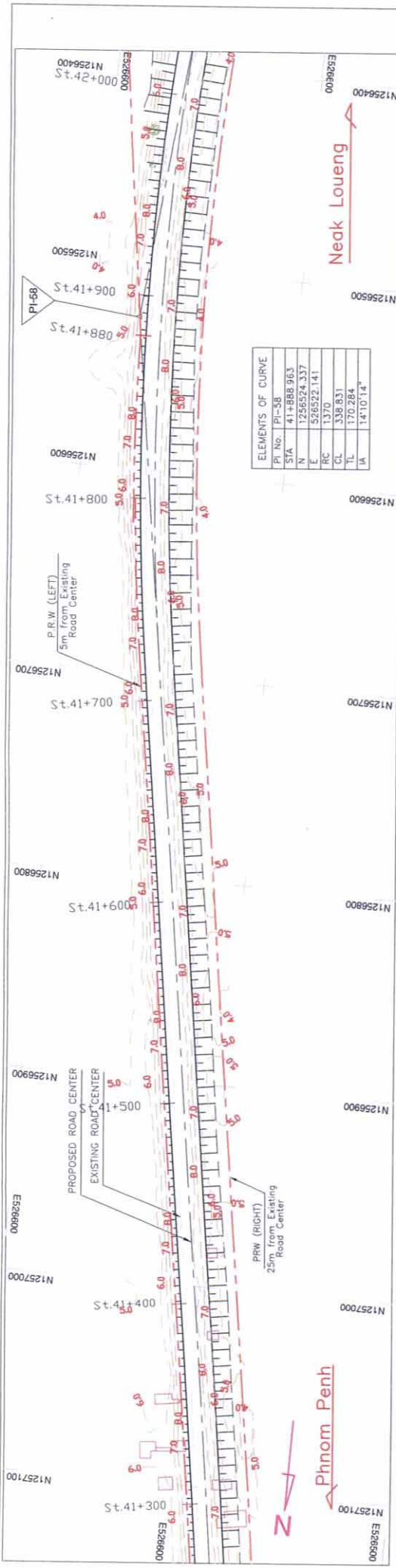
THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL
CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE
STA.39+900 - STA.40+600

SCALE
H=1/2000
V=1/200

Drawing No.
Sheet No.
58



CROSS SECTION TYPE	SUPER-ELEVATION	HORIZONTAL CHAINAGE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
TYPE-6	NG		41+300	8.61	9.685	10.010
			41+340	8.54	9.706	
			41+360	8.51	9.716	
			41+380	8.54	9.726	
			41+400	8.53	9.737	
			41+420	8.53	9.747	
			41+440	8.57	9.758	
			41+460	8.61	9.768	
			41+480	8.63	9.778	
			41+500	8.70	9.789	
			41+520	8.70	9.799	
			41+540	8.62	9.809	
			41+560	8.60	9.820	
			41+580	8.63	9.830	
			41+600	8.64	9.840	
			41+620	8.67	9.851	
			41+640	8.67	9.861	
			41+660	8.66	9.872	
			41+680	8.64	9.882	
			41+700	8.62	9.892	
			41+720	8.63	9.903	
			41+740	8.64	9.913	
			41+760	8.66	9.923	
			41+780	8.68	9.934	
			41+800	8.70	9.944	
			41+820	8.69	9.955	
			41+840	8.67	9.965	
			41+860	8.63	9.975	
			41+880	8.58	9.986	
			41+900	8.58	10.000	
			41+920	8.58	10.059	
			41+940	8.55	10.173	
			41+960	8.57	10.340	
			41+980	8.56	10.540	
			42+000	8.54	10.740	

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

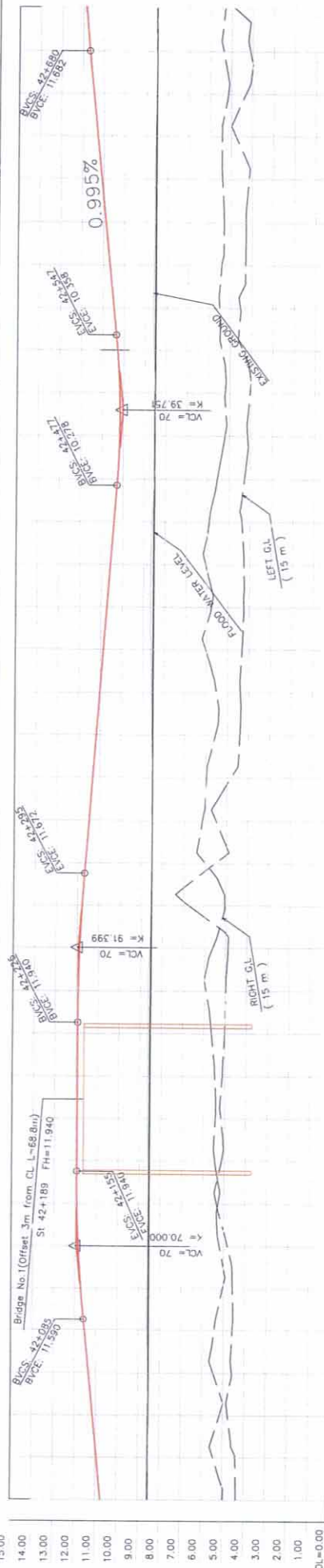
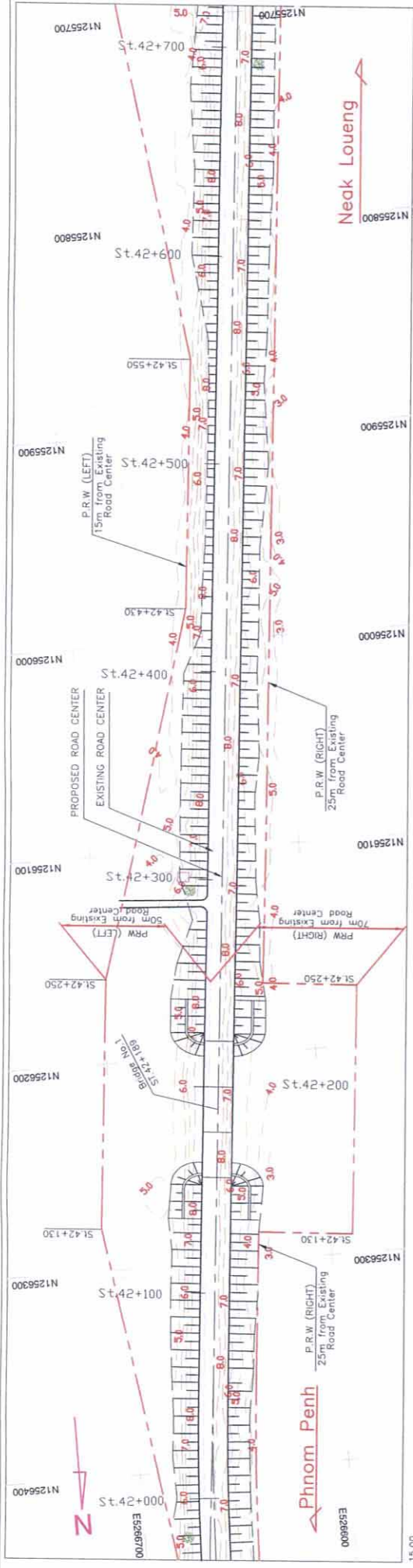
JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL
CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE
STA.41+300 - STA.42+000

SCALE
H=1/2000
V=1/200

Drawing No.
Sheet No.
60

TYPE-6



CROSS SECTION	TYPE	TYPE-7
42+000	8.54	10.740
42+020	8.51	10.940
42+040	8.53	11.140
42+060	8.56	11.340
42+080	8.61	11.540
42+100	8.60	11.724
42+120	8.59	11.852
42+140	8.57	11.924
42+160	8.60	11.940
42+180	8.63	11.940
42+200	8.62	11.940
42+220	8.63	11.940
42+240	8.64	11.928
42+260	8.58	11.873
42+280	8.56	11.775
42+300	8.54	11.634
42+320	8.54	11.480
42+340	8.54	11.327
42+360	8.56	11.174
42+380	8.59	11.021
42+400	8.63	10.868
42+420	8.66	10.715
42+440	8.66	10.561
42+460	8.67	10.408
42+480	8.52	10.256
42+500	8.48	10.168
42+520	8.52	10.181
42+540	8.59	10.295
42+560	8.62	10.488
42+580	8.61	10.687
42+600	8.58	10.886
42+620	8.59	11.085
42+640	8.56	11.284
42+660	8.54	11.483
42+680	8.53	11.682
42+700	8.47	11.852

Vertical Curve Data:
 L = 140.000
 L = 232.000
 L = 200.000
 L = 200.000

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

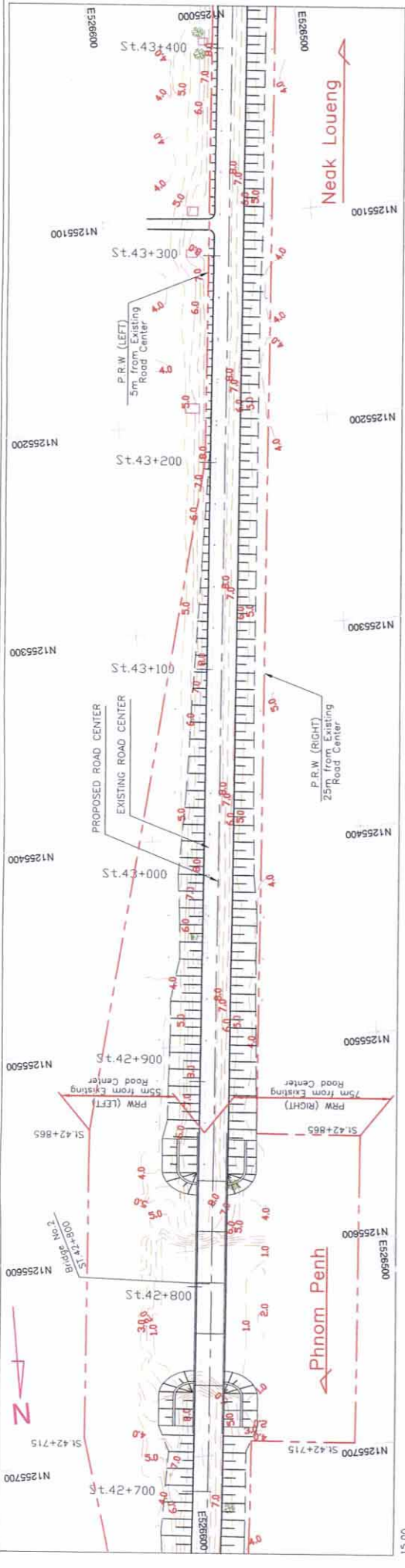
TITLE : PLAN AND PROFILE STA.42+000 - STA.42+700

SCALE H=1/2000 V=1/200

Drawing No. 61

Sheet No. 61

TYPE-7



CROSS SECTION TYPE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
TYPE-7	12.030	8.47	11.852	12.030
	12.030	8.41	11.966	12.030
	12.030	8.42	12.023	12.030
	12.030	0.60	12.030	12.030
TYPE-7	12.030	0.40	12.030	12.030
	12.030	2.39	12.030	12.030
	12.030	8.59	12.030	12.030
	12.030	8.53	12.026	12.030
TYPE-7	12.030	8.50	11.978	12.030
	12.030	8.48	11.872	12.030
	12.030	8.50	11.709	12.030
	12.030	8.48	11.510	12.030
TYPE-7	12.030	8.54	11.310	12.030
	12.030	8.54	11.110	12.030
	12.030	8.59	10.910	12.030
	12.030	8.62	10.710	12.030
TYPE-7	9.990	8.61	10.510	9.990
	9.979	8.57	10.311	9.979
	9.976	8.53	10.110	9.976
	9.972	8.56	9.910	9.972
TYPE-7	9.969	8.62	9.710	9.969
	9.966	8.63	9.510	9.966
	9.963	8.65	9.311	9.963
	9.960	8.67	9.110	9.960
TYPE-7	9.956	8.68	8.910	9.956
	9.953	8.61	8.710	9.953
	9.950	8.70	8.510	9.950
	9.947	8.72	8.311	9.947
TYPE-7	9.943	8.67	8.110	9.943
	9.940	8.67	7.910	9.940
	9.940	8.67	7.710	9.940
	9.940	8.67	7.510	9.940

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

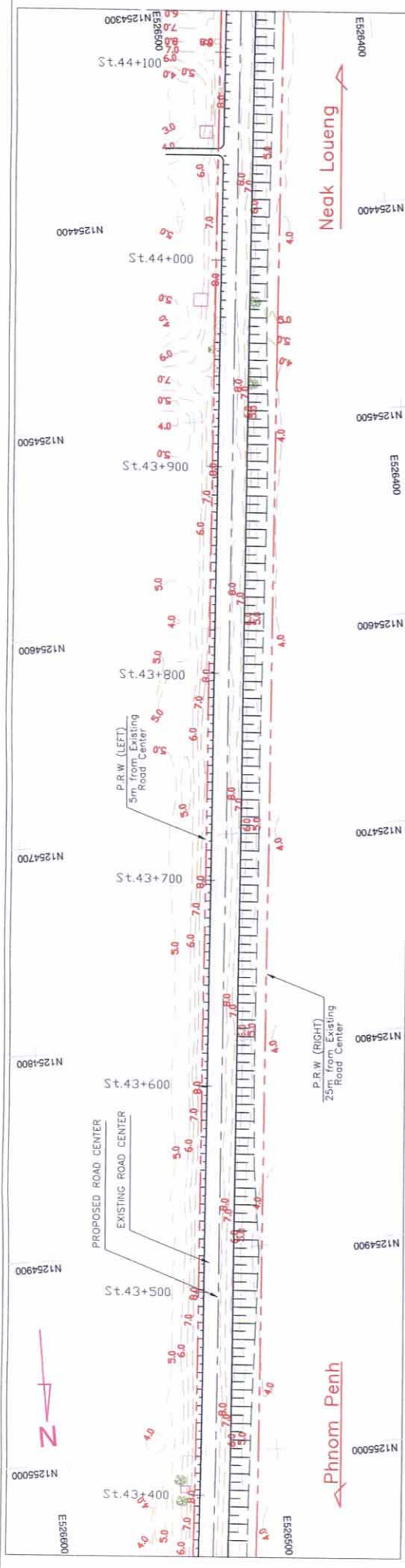
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE STA.42+700 - STA.43+400

SCALE H=1/2000 V=1/200

Drawing No. Sheet No. 62

TYPE-7



CROSS SECTION TYPE	SUPER-ELEVATION	HORIZONTAL CURVATURE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
			43+400	8.67	9.940	
			43+420	8.67	9.937	
			43+440	8.67	9.934	
			43+460	8.64	9.930	
			43+480	8.59	9.927	
			43+500	8.50	9.924	
			43+520	8.51	9.921	
			43+540	8.56	9.917	
			43+560	8.57	9.914	
			43+580	8.62	9.911	
			43+600	8.61	9.908	
			43+620	8.60	9.904	
			43+640	8.61	9.901	
			43+660	8.67	9.898	
			43+680	8.66	9.895	
			43+700	8.65	9.891	
			43+720	8.59	9.888	
			43+740	8.56	9.885	
			43+760	8.55	9.882	
			43+780	8.48	9.878	
			43+800	8.38	9.875	
			43+820	8.35	9.872	
			43+840	8.30	9.869	
			43+860	8.25	9.866	
			43+880	8.25	9.862	
			43+900	8.29	9.859	
			43+920	8.36	9.856	
			43+940	8.38	9.853	
			43+960	8.34	9.849	
			43+980	8.33	9.846	
			44+000	8.28	9.843	
			44+020	8.23	9.840	
			44+040	8.22	9.836	
			44+060	8.12	9.833	
			44+080	8.13	9.830	
			44+100	8.14	9.827	

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

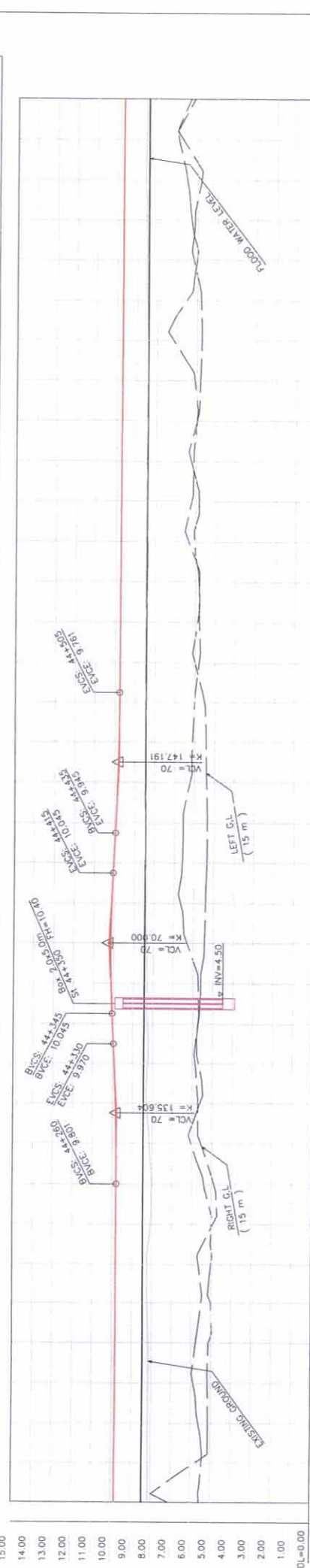
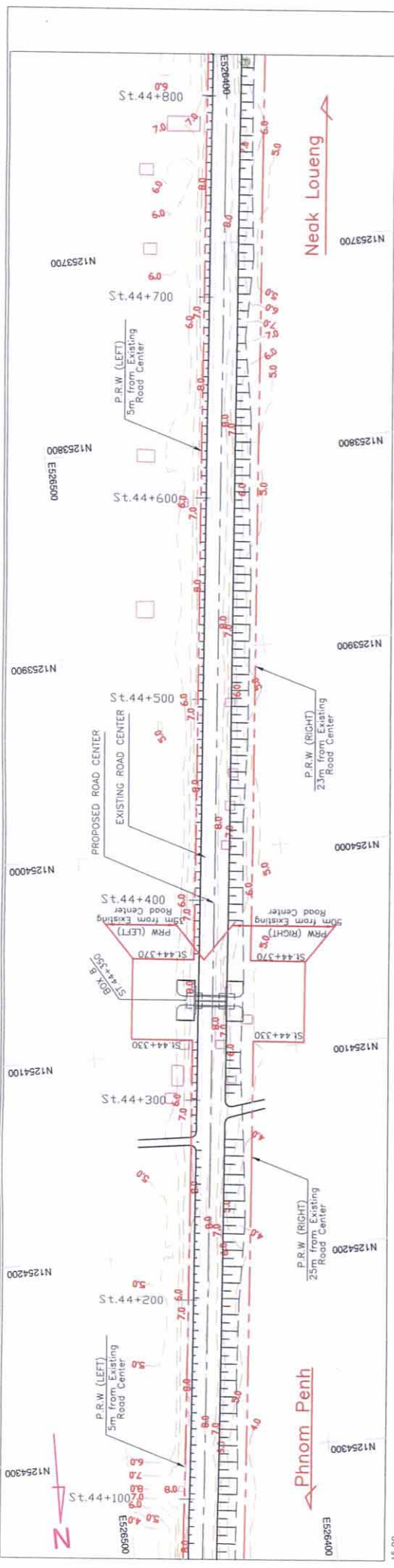
JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL
CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE
STA.43+400 - STA.44+100

SCALE
H=1/2000
V=1/200

Drawing No.
Sheet No.
63

TYPE-7



CROSS SECTION TYPE	TYPE-7	
SECTION TYPE	ELEVATION	NG
HORIZONTAL	CURVATURE	L=3881.684
STATION	GROUND HEIGHT	PROPOSED ALIGNMENT HEIGHT
44+100	8.14	9.827
44+120	8.14	9.823
44+140	8.16	9.820
44+160	8.15	9.817
44+180	8.17	9.814
44+200	8.22	9.810
44+220	8.23	9.807
44+240	8.06	9.804
44+260	8.04	9.801
44+280	8.14	9.812
44+300	8.29	9.853
44+320	8.24	9.924
44+340	8.28	10.020
44+360	8.29	10.104
44+380	8.36	10.132
44+400	8.40	10.104
44+420	8.44	10.020
44+440	8.46	9.921
44+460	8.40	9.841
44+480	8.41	9.789
44+500	8.45	9.764
44+520	8.49	9.758
44+540	8.48	9.753
44+560	8.39	9.748
44+580	8.40	9.743
44+600	8.42	9.738
44+620	8.48	9.733
44+640	8.44	9.728
44+660	8.45	9.724
44+680	8.47	9.719
44+700	8.52	9.714
44+720	8.53	9.709
44+740	8.55	9.704
44+760	8.60	9.699
44+780	8.57	9.694
44+800	8.59	9.689

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

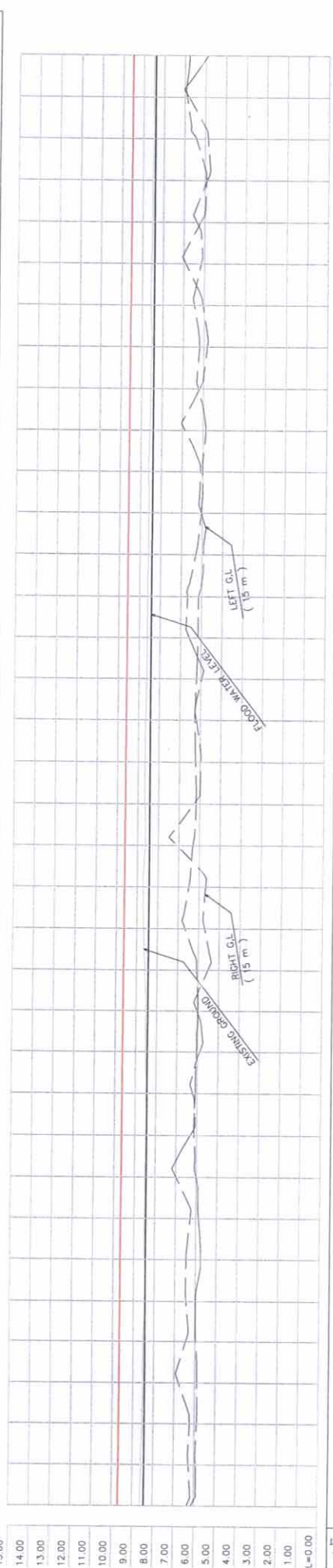
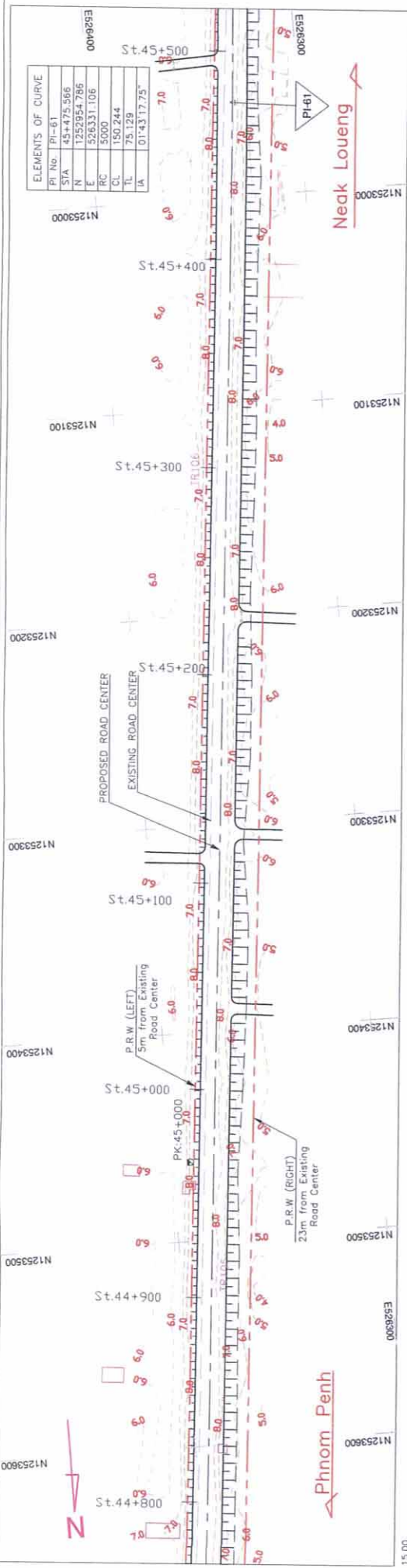
TITLE : PLAN AND PROFILE STA.44+100 - STA.44+800

SCALE H=1/2000 V=1/200

Drawing No. Sheet No. 64

TYPE-7

ELEMENTS OF CURVE	
PI No.	PI-61
STA	45+475.566
N	1252954.786
E	526331.106
PC	5000
CL	150.244
TL	25.129
IA	01°43'17.75"



CROSS SECTION TYPE	STATION	GROUND HEIGHT	PROPOSED HEIGHT	VERTICAL ALIGNMENT
	44+800	8.59	9.689	
	44+820	8.58	9.685	
	44+840	8.54	9.680	
	44+860	8.52	9.675	
	44+880	8.52	9.670	
	44+900	8.44	9.665	
	44+920	8.49	9.660	
	44+940	8.50	9.655	
	44+960	8.50	9.650	
	44+980	8.47	9.645	
	45+000	8.49	9.641	
	45+020	8.52	9.636	
	45+040	8.51	9.631	
	45+060	8.59	9.626	
	45+080	8.66	9.621	
	45+100	8.71	9.616	
	45+120	8.62	9.611	
	45+140	8.65	9.606	
	45+160	8.68	9.601	
	45+180	8.65	9.597	
	45+200	8.61	9.592	
	45+220	8.61	9.587	
	45+240	8.61	9.582	
	45+260	8.58	9.577	
	45+280	8.58	9.572	
	45+300	8.61	9.567	
	45+320	8.57	9.562	
	45+340	8.56	9.557	
	45+360	8.51	9.553	
	45+380	8.57	9.548	
	45+400	8.56	9.543	
	45+420	8.52	9.538	
	45+440	8.52	9.533	
	45+460	8.49	9.528	
	45+480	8.50	9.523	
	45+500	8.49	9.518	

TYPE 6

CROSS SECTION TYPE: SUPER-ELEVATION: NG

HORIZONTAL CURVATURE: R=5000, L=150.006

VERTICAL ALIGNMENT: BC, R=5000, L=150.006

TITLE: PLAN AND PROFILE (STA. 44+800—STA. 45+500)

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL
CTI ENGINEERING INTERNATIONAL CO.,LTD

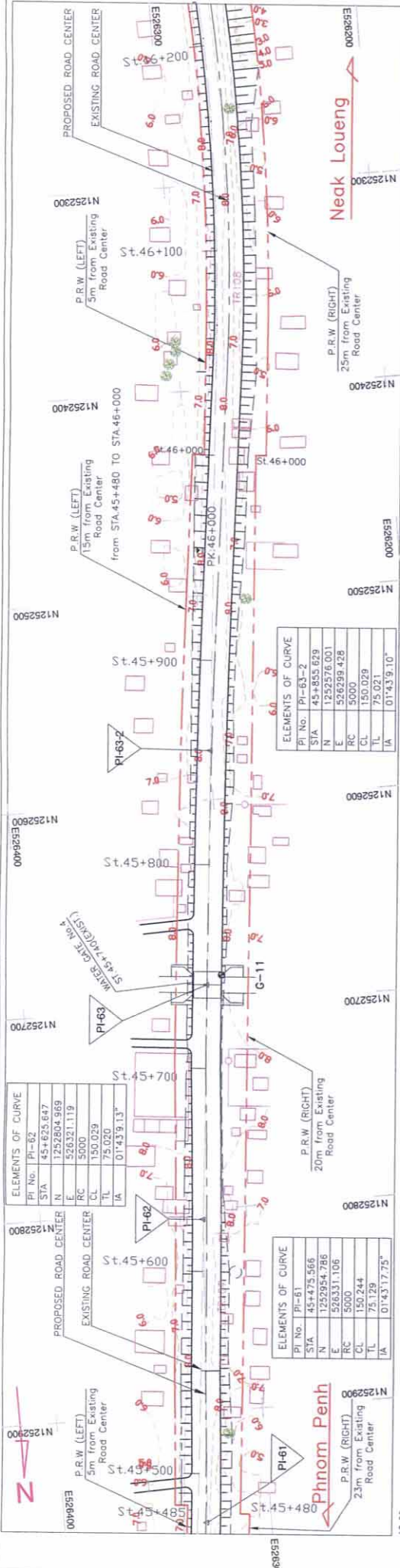
THE PROJECT FOR THE
IMPROVEMENT OF NATIONAL ROAD NO.1
(PHNOM PENH-NEAK LOUENG SECTION)
IN THE KINGDOM OF CAMBODIA

MINISTRY OF
PUBLIC WORKS AND TRANSPORT
(MPWT)

SCALE: H=1/2000, V=1/200

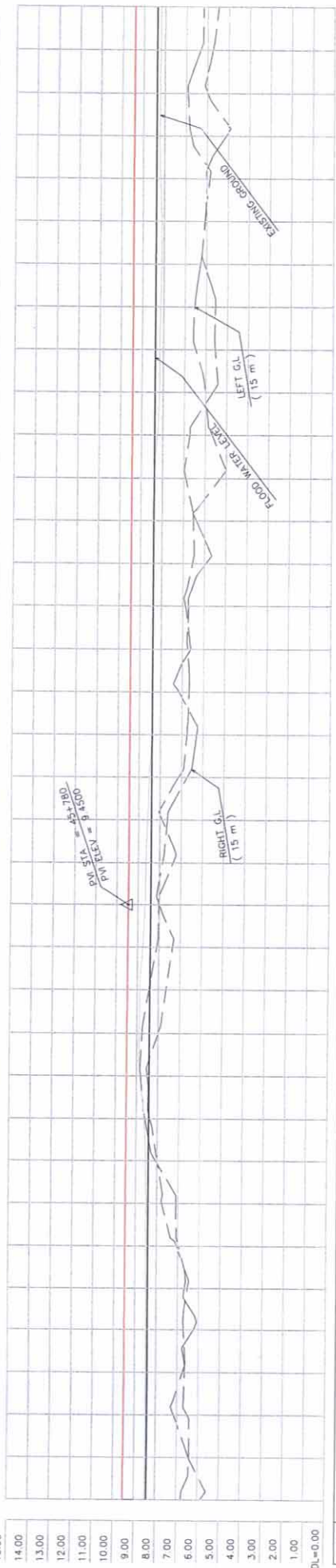
Drawing No. PL-65

Sheet No. PL-65



ELEMENTS OF CURVE	
PI No.	PI-63-2
S/A	45+855.629
N	1252576.001
E	526298.428
RC	5000
CL	150.029
TL	75.021
IA	01°43'9.10"

ELEMENTS OF CURVE	
PI No.	PI-61
S/A	45+475.566
N	1252954.786
E	526331.106
RC	5000
CL	150.244
TL	75.129
IA	01°43'17.75"



CROSS SECTION TYPE	TYPE 6
PAVEMENT HEIGHT	9.429
GROUND HEIGHT	8.19
STATION	46+200
HORIZONTAL CURVATURE	Rc=990 Lc=827.395
SURFACE ELEVATION	3.00
CROSS SECTION TYPE	TYPE 6

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE (STA.45+500-STA.46+200)

SCALE H=1/2000 V=1/200

Drawing No. Sheet No. PL-66