

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

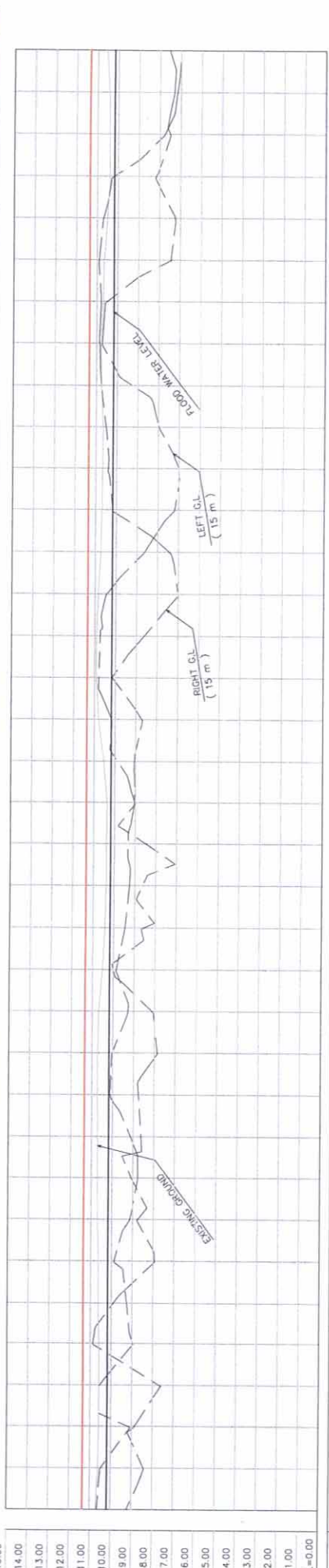
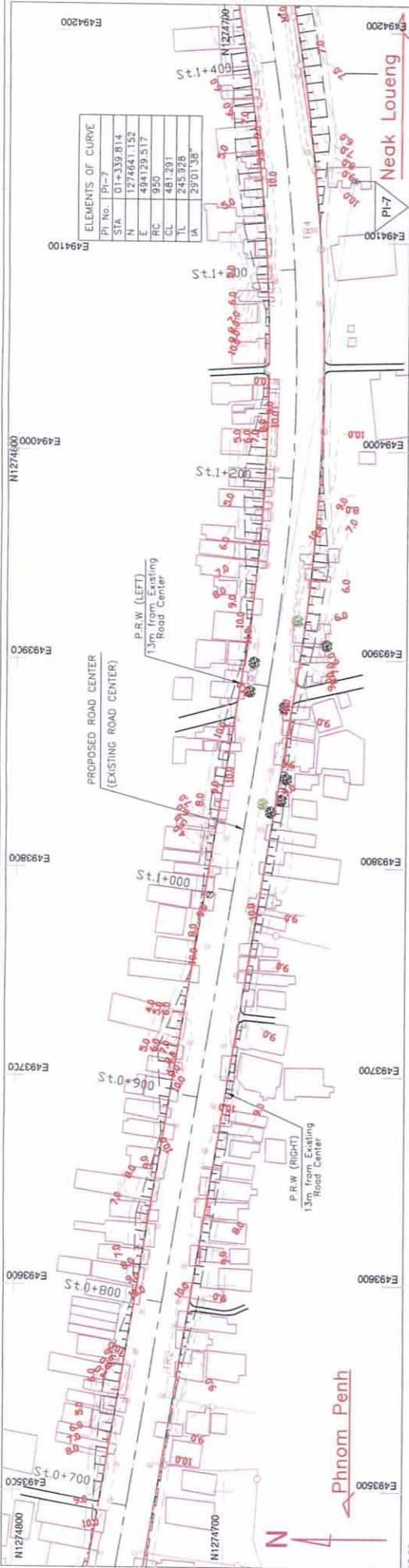
THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

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

TITLE : PLAN AND PROFILE (STA.0+000-ST.A.0+700)

SCALE H=1/2000 V=1/200

Drawing No. Sheet No. PL-1



CROSS SECTION TYPE	TYPE 2
SUPER-ELEVATION	NC
HORIZONTAL CURVATURE	BC Rc=950 Lc=481.291
STATION	0+700 10.71 11.350 +720 10.60 11.350 +740 10.58 11.350 +760 10.58 11.350 +780 10.58 11.350 +800 10.63 11.350 +820 10.62 11.350 +840 10.68 11.350 +860 10.70 11.350 +880 10.70 11.350 +900 10.73 11.350 +920 10.72 11.350 +940 10.69 11.350 +960 10.53 11.350 +980 10.42 11.350 +1000 10.37 11.350 +1020 10.37 11.350 +1040 10.36 11.350 +1060 10.53 11.350 +1080 10.78 11.350 +1100 10.91 11.350 +1120 10.91 11.350 +1140 10.84 11.350 +1160 10.73 11.350 +1180 10.69 11.350 +1200 10.66 11.350 +1220 10.66 11.350 +1240 10.75 11.350 +1260 10.78 11.350 +1280 10.69 11.350 +1300 10.65 11.350 +1320 10.50 11.350 +1340 10.39 11.350 +1360 10.40 11.350 +1380 10.42 11.350 +1400 10.54 11.350
GROUND HEIGHT	
PAVEMENT HEIGHT	
VERTICAL ALIGNMENT	LC=1500.00 LC=1500.00

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

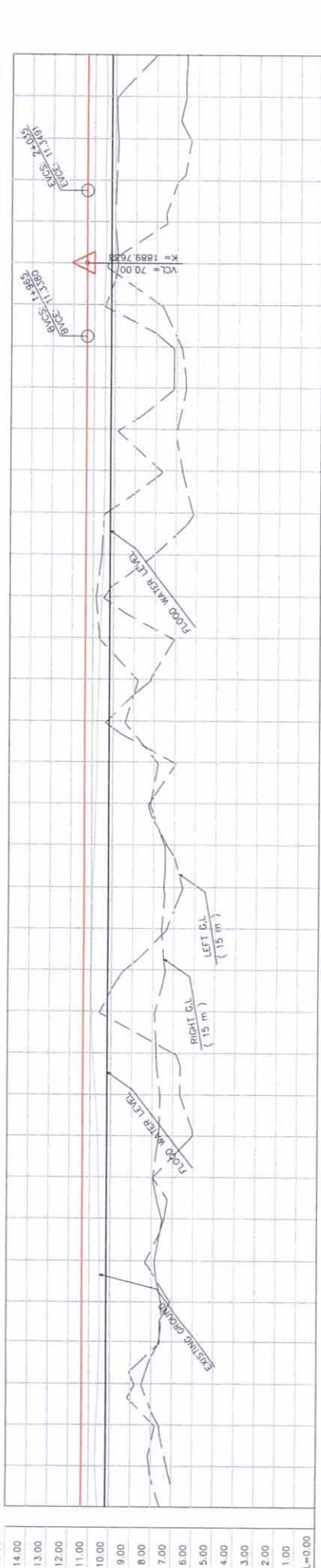
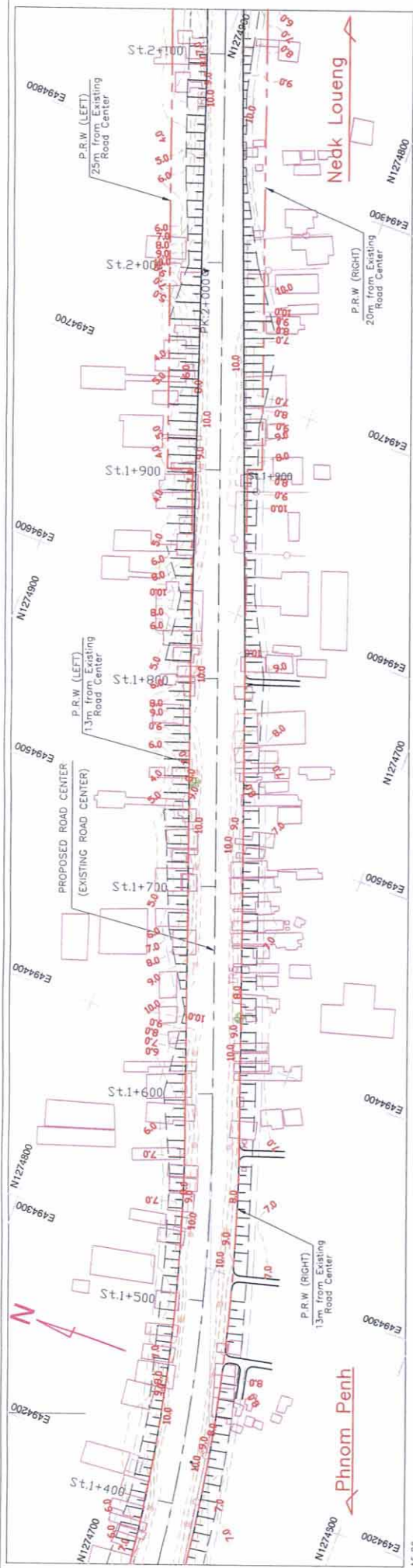
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE: PLAN AND PROFILE (STA.0+700-ST.1+400)

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

Drawing No. \_\_\_\_\_  
Sheet No. PL-2





CROSS SECTION TYPE	TYPE 1	TYPE 2	TYPE 3
SUPER-ELEVATION	NC	NC	NC
HORIZONTAL CURVATURE	Rc=950 Lc=481.281	Rc=∞ L=529.890	
STATION	1+400	1+420	2+100
GROUND HEIGHT	10.54	10.69	11.347
PAVEMENT HEIGHT	11.350	11.350	11.348
VERTICAL ALIGNMENT	11.350	11.350	11.348

**MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)**

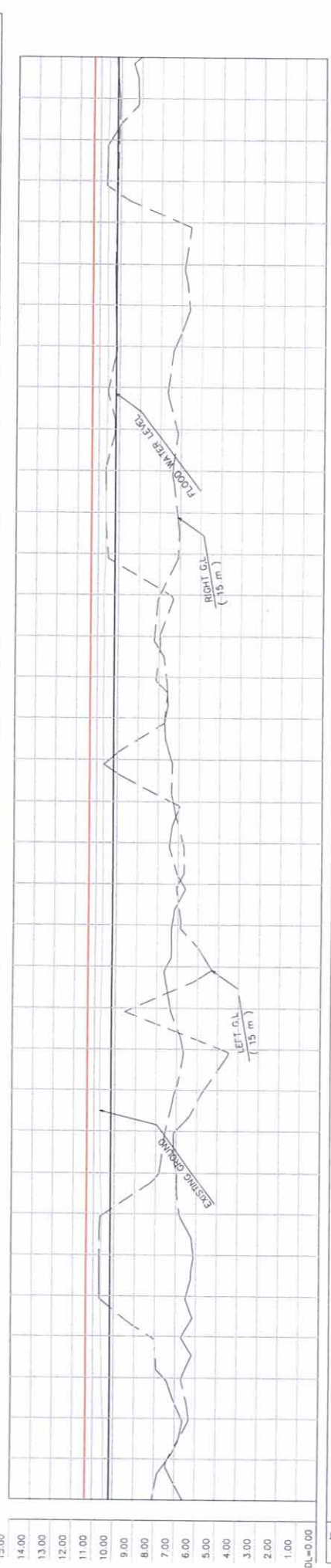
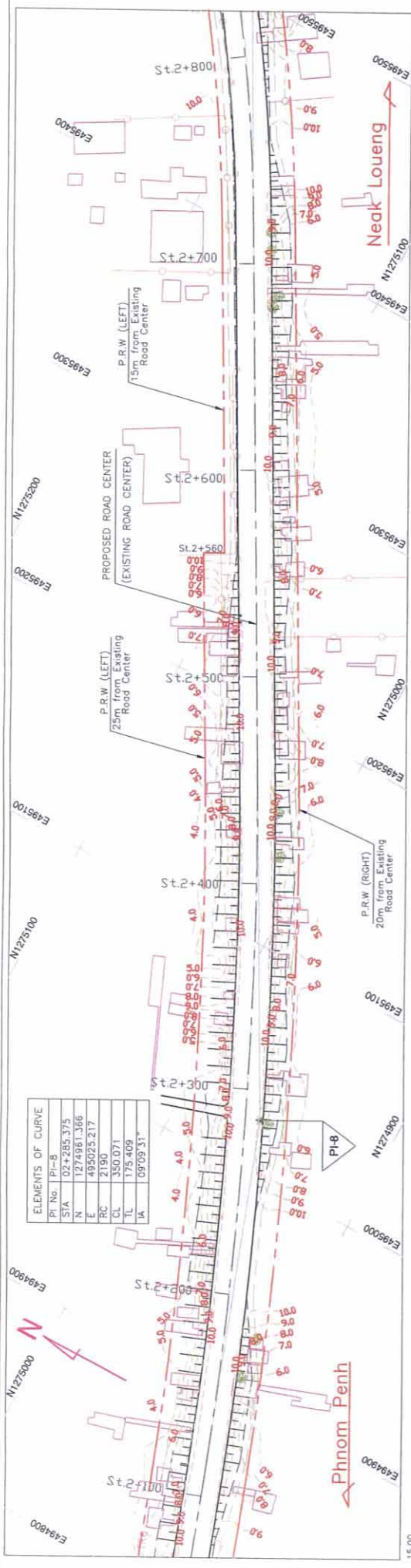
**THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA**

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

**TITLE : PLAN AND PROFILE (STA. 1+400 - STA. 2+100)**

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

Drawing No. \_\_\_\_\_  
 Sheet No. PL-3



VERTICAL ALIGNMENT	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	PROPOSED HEIGHT
BC	2+100	11.347	10.45	11.347
	2+120	11.347	10.48	11.347
	2+140	11.346	10.49	11.346
	2+160	11.346	10.57	11.346
	2+180	11.345	10.60	11.345
	2+200	11.345	10.64	11.345
	2+220	11.344	10.63	11.344
	2+240	11.344	10.60	11.344
	2+260	11.343	10.67	11.343
	2+280	11.343	10.71	11.343
EC	2+300	11.342	10.72	11.342
	2+320	11.341	10.73	11.341
	2+340	11.340	10.70	11.341
	2+360	11.340	10.66	11.340
	2+380	11.340	10.66	11.340
	2+400	11.339	10.65	11.339
	2+420	11.339	10.66	11.339
	2+440	11.338	10.67	11.338
	2+460	11.338	10.66	11.338
	2+480	11.337	10.69	11.337
EC	2+500	11.337	10.68	11.337
	2+520	11.336	10.67	11.336
	2+540	11.336	10.70	11.336
	2+560	11.335	10.62	11.335
	2+580	11.335	10.63	11.335
	2+600	11.334	10.62	11.334
	2+620	11.333	10.61	11.333
	2+640	11.333	10.58	11.333
	2+660	11.332	10.58	11.332
	2+680	11.332	10.59	11.332
EC	2+700	11.331	10.62	11.331
	2+720	11.331	10.60	11.331
	2+740	11.330	10.62	11.330
	2+760	11.330	10.63	11.330
	2+780	11.329	10.58	11.329
	2+800	11.329	10.57	11.329

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

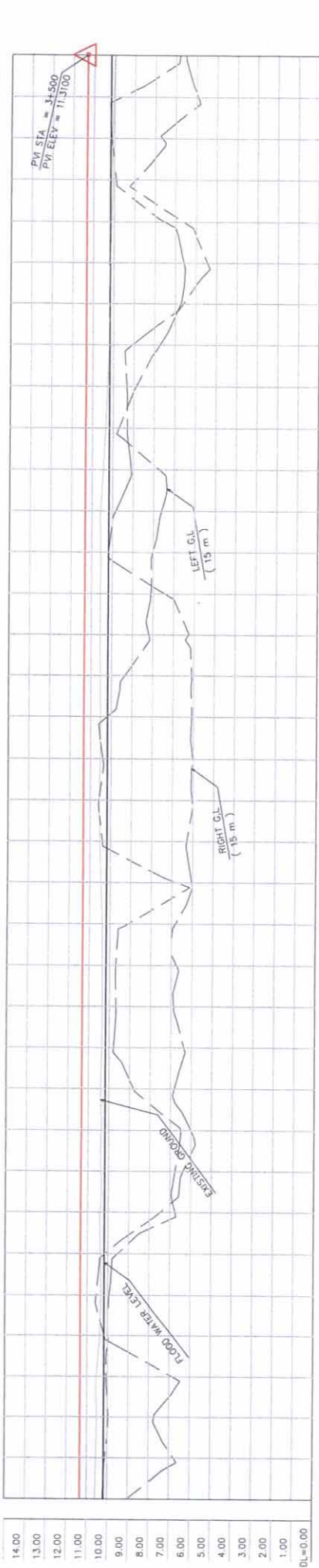
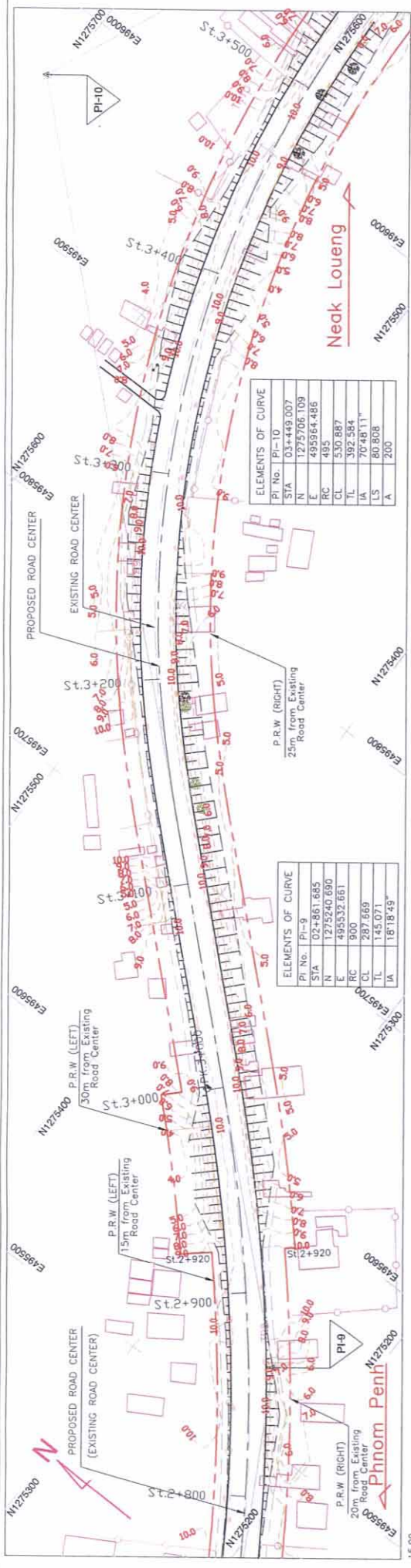
TITLE : PLAN AND PROFILE (STA.2+100—STA.2+800)

SCALE H=1/2000 V=1/200

Drawing No. Sheet No. PL-4

TYPE 3





CROSS SECTION TYPE	STATION	GROUND ELEVATION	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
TYPE 3	2+800	11.329	11.329	$R_c=900$ $L_c=287.668$
	2+820	11.328	11.328	
	2+840	10.52	11.328	
	2+860	11.327	11.327	
	2+880	10.38	11.327	
	2+900	11.326	11.326	
	2+920	10.35	11.325	
	2+940	10.38	11.325	
	2+960	10.35	11.324	
	2+980	10.36	11.324	
TYPE 3	3+000	10.39	11.323	$R_c=900$ $L_c=287.668$
	3+020	10.36	11.323	
	3+040	10.35	11.322	
	3+060	10.36	11.322	
	3+080	10.38	11.321	
	3+100	10.44	11.321	
	3+120	10.52	11.320	
	3+140	10.56	11.320	
	3+160	10.52	11.319	
	3+180	10.51	11.319	
TYPE 3	3+200	10.53	11.318	$R_c=900$ $L_c=287.668$
	3+220	10.56	11.317	
	3+240	10.56	11.317	
	3+260	10.55	11.316	
	3+280	10.57	11.316	
	3+300	10.45	11.315	
	3+320	10.35	11.315	
	3+340	10.28	11.314	
	3+360	10.22	11.314	
	3+380	10.20	11.313	
TYPE 3	3+400	10.17	11.313	$R_c=900$ $L_c=287.668$
	3+420	10.10	11.312	
	3+440	10.06	11.312	
	3+460	10.08	11.311	
	3+480	10.04	11.311	
	3+500	9.98	11.310	

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

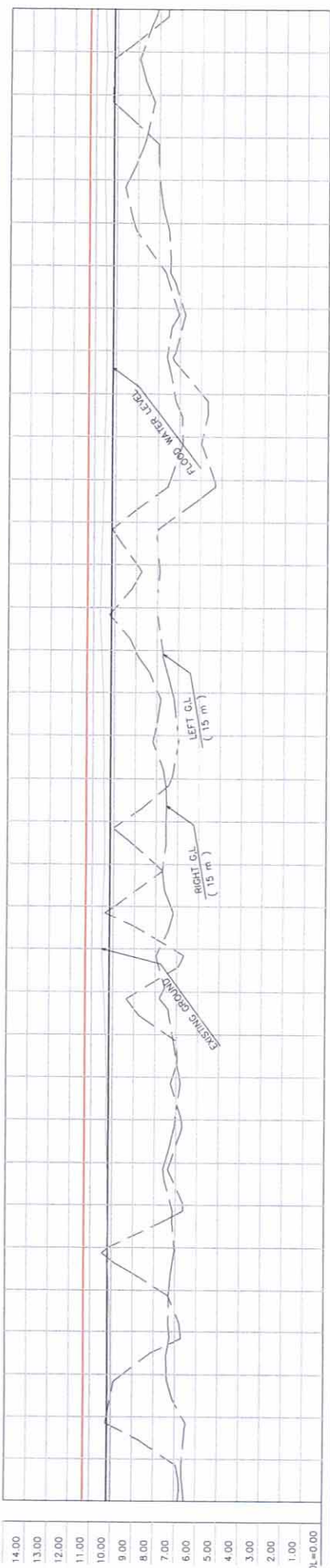
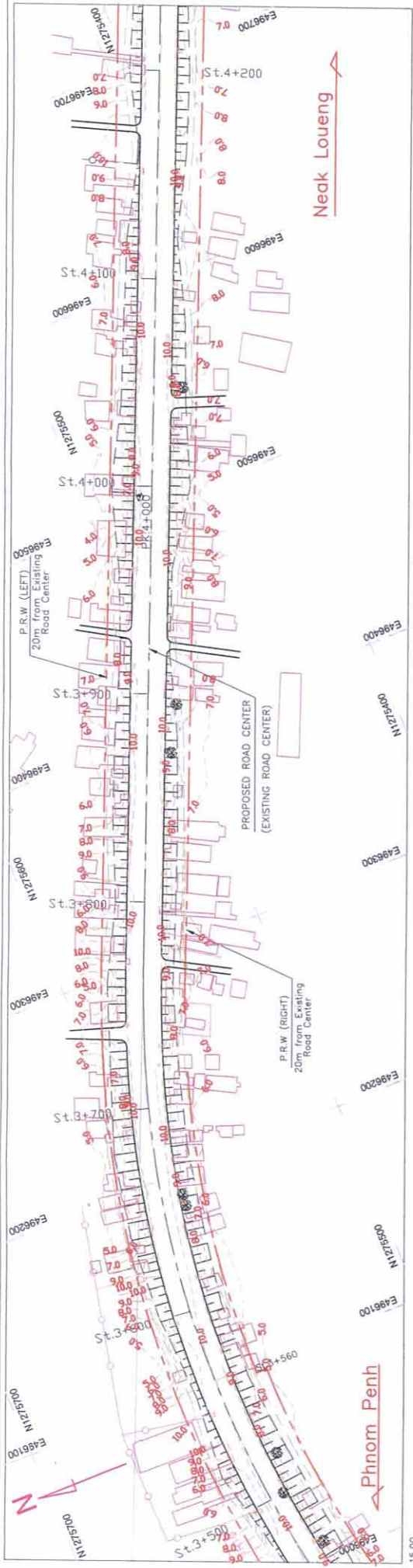
TITLE : PLAN AND PROFILE (STA.2+800 – STA.3+500)

SCALE H=1/2000 V=1/200

Drawing No. PL-5

SHEET No. PL-5

TYPE 3



VERTICAL ALIGNMENT	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	WATER HEIGHT
	9.98	11.310	3+500	
	9.98	11.309	3+520	
	10.02	11.307	3+540	
	10.05	11.306	3+580	
	10.11	11.305	3+600	
	10.19	11.304	3+620	
	10.21	11.303	3+640	
	10.24	11.303	3+660	
	10.29	11.302	3+680	
	10.27	11.301	3+700	
	10.33	11.300	3+720	
	10.42	11.299	3+740	
	10.52	11.298	3+760	
	10.50	11.297	3+780	
	10.43	11.296	3+800	
	10.47	11.294	3+840	
	10.48	11.293	3+860	
	10.51	11.292	3+880	
	10.60	11.291	3+900	
	10.68	11.290	3+920	
	10.65	11.289	3+940	
	10.59	11.289	3+960	
	10.54	11.288	3+980	
	10.52	11.287	4+000	
	10.46	11.286	4+020	
	10.45	11.285	4+040	
	10.47	11.284	4+060	
	10.50	11.283	4+080	
	10.53	11.282	4+100	
	10.57	11.281	4+120	
	10.58	11.280	4+140	
	10.56	11.279	4+160	
	10.50	11.278	4+180	
	10.57	11.277	4+200	

VERTICAL ALIGNMENT	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	WATER HEIGHT
	0+000	3.00	4.00	3.00
	0+200	3.00	4.00	3.00
	0+400	3.00	4.00	3.00
	0+600	3.00	4.00	3.00
	0+800	3.00	4.00	3.00
	1+000	3.00	4.00	3.00
	1+200	3.00	4.00	3.00
	1+400	3.00	4.00	3.00
	1+600	3.00	4.00	3.00
	1+800	3.00	4.00	3.00
	2+000	3.00	4.00	3.00
	2+200	3.00	4.00	3.00
	2+400	3.00	4.00	3.00
	2+600	3.00	4.00	3.00
	2+800	3.00	4.00	3.00
	3+000	3.00	4.00	3.00
	3+200	3.00	4.00	3.00
	3+400	3.00	4.00	3.00
	3+600	3.00	4.00	3.00
	3+800	3.00	4.00	3.00
	4+000	3.00	4.00	3.00
	4+200	3.00	4.00	3.00

VERTICAL ALIGNMENT	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	WATER HEIGHT
	0+000	3.00	4.00	3.00
	0+200	3.00	4.00	3.00
	0+400	3.00	4.00	3.00
	0+600	3.00	4.00	3.00
	0+800	3.00	4.00	3.00
	1+000	3.00	4.00	3.00
	1+200	3.00	4.00	3.00
	1+400	3.00	4.00	3.00
	1+600	3.00	4.00	3.00
	1+800	3.00	4.00	3.00
	2+000	3.00	4.00	3.00
	2+200	3.00	4.00	3.00
	2+400	3.00	4.00	3.00
	2+600	3.00	4.00	3.00
	2+800	3.00	4.00	3.00
	3+000	3.00	4.00	3.00
	3+200	3.00	4.00	3.00
	3+400	3.00	4.00	3.00
	3+600	3.00	4.00	3.00
	3+800	3.00	4.00	3.00
	4+000	3.00	4.00	3.00
	4+200	3.00	4.00	3.00

VERTICAL ALIGNMENT	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	WATER HEIGHT
	0+000	3.00	4.00	3.00
	0+200	3.00	4.00	3.00
	0+400	3.00	4.00	3.00
	0+600	3.00	4.00	3.00
	0+800	3.00	4.00	3.00
	1+000	3.00	4.00	3.00
	1+200	3.00	4.00	3.00
	1+400	3.00	4.00	3.00
	1+600	3.00	4.00	3.00
	1+800	3.00	4.00	3.00
	2+000	3.00	4.00	3.00
	2+200	3.00	4.00	3.00
	2+400	3.00	4.00	3.00
	2+600	3.00	4.00	3.00
	2+800	3.00	4.00	3.00
	3+000	3.00	4.00	3.00
	3+200	3.00	4.00	3.00
	3+400	3.00	4.00	3.00
	3+600	3.00	4.00	3.00
	3+800	3.00	4.00	3.00
	4+000	3.00	4.00	3.00
	4+200	3.00	4.00	3.00

VERTICAL ALIGNMENT	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	WATER HEIGHT
	0+000	3.00	4.00	3.00
	0+200	3.00	4.00	3.00
	0+400	3.00	4.00	3.00
	0+600	3.00	4.00	3.00
	0+800	3.00	4.00	3.00
	1+000	3.00	4.00	3.00
	1+200	3.00	4.00	3.00
	1+400	3.00	4.00	3.00
	1+600	3.00	4.00	3.00
	1+800	3.00	4.00	3.00
	2+000	3.00	4.00	3.00
	2+200	3.00	4.00	3.00
	2+400	3.00	4.00	3.00
	2+600	3.00	4.00	3.00
	2+800	3.00	4.00	3.00
	3+000	3.00	4.00	3.00
	3+200	3.00	4.00	3.00
	3+400	3.00	4.00	3.00
	3+600	3.00	4.00	3.00
	3+800	3.00	4.00	3.00
	4+000	3.00	4.00	3.00
	4+200	3.00	4.00	3.00

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.3+500—STA.4+200)

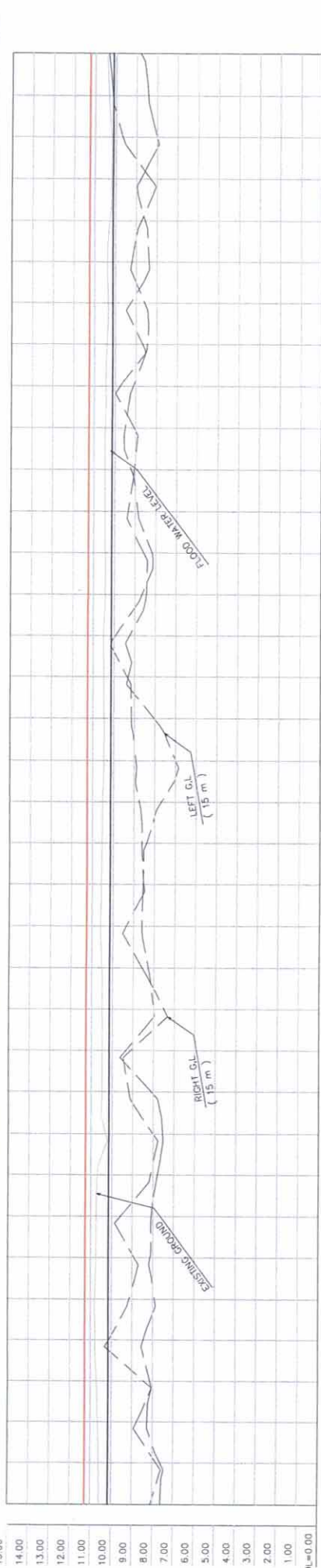
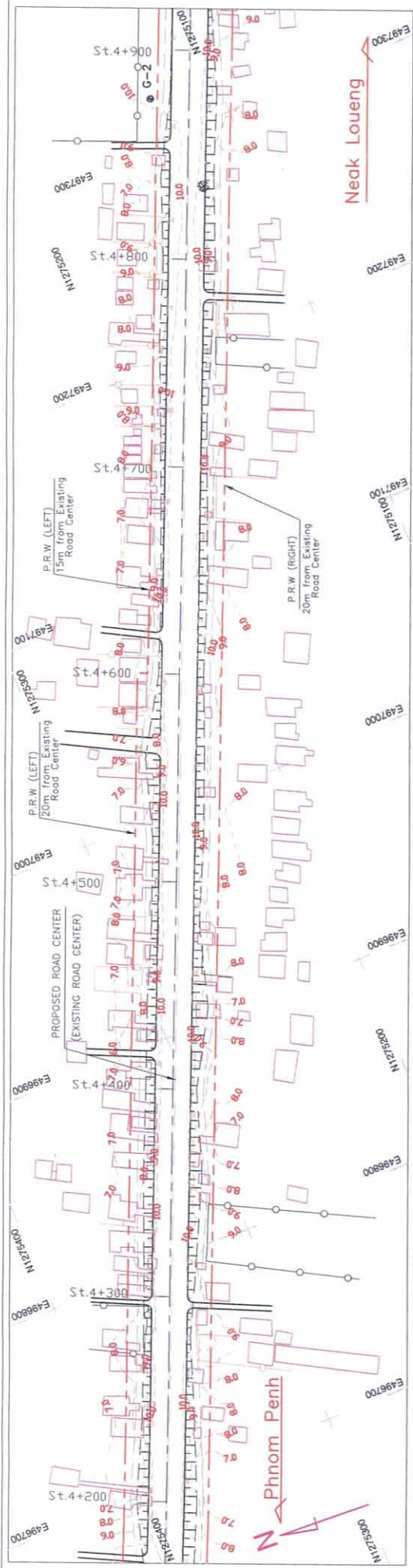
SCALE H=1/2000 V=1/200

Drawing No. PL-6

Sheet No. PL-6

TYPE 3





STATION	GROUND HEIGHT	PROPOSED HEIGHT	VERTICAL ALIGNMENT
++200	11.277	11.277	
++220	10.59	11.276	
++240	10.64	11.275	
++260	10.70	11.275	
++280	10.78	11.274	
++300	10.79	11.273	
++320	10.74	11.272	
++340	10.73	11.271	
++360	10.69	11.270	
++380	10.29	11.269	
++400	10.48	11.268	
++420	10.48	11.267	
++440	10.48	11.266	
++460	10.50	11.265	
++480	10.57	11.264	
++500	10.56	11.263	
++520	10.54	11.262	
++540	10.52	11.261	
++560	10.46	11.261	
++580	10.45	11.260	
++600	10.47	11.259	
++620	10.49	11.258	
++640	10.43	11.257	
++660	10.43	11.256	
++680	10.46	11.255	
++700	10.48	11.254	
++720	10.46	11.253	
++740	10.44	11.252	
++760	10.39	11.251	
++780	10.34	11.250	
++800	10.37	11.249	
++820	10.26	11.248	
++840	10.20	11.247	
++860	10.20	11.247	
++880	10.33	11.246	
++900	10.42	11.245	

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

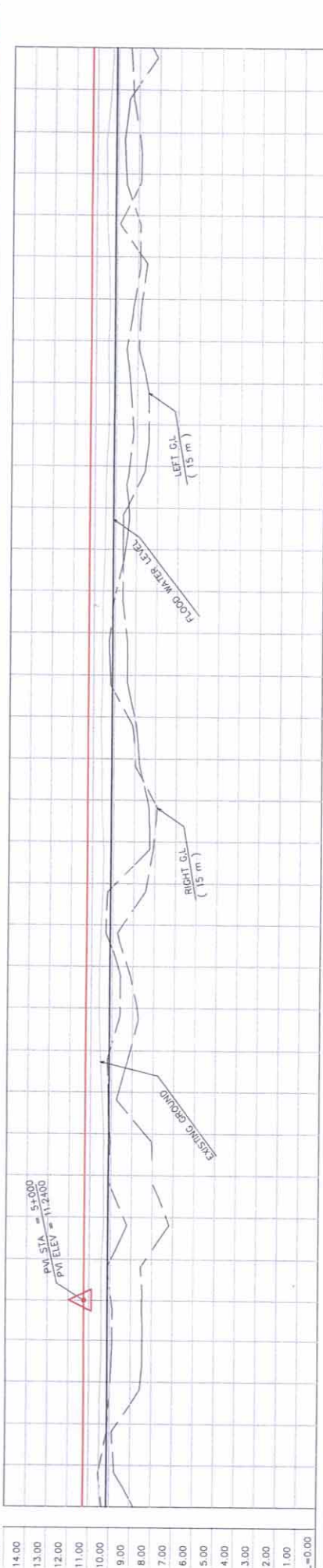
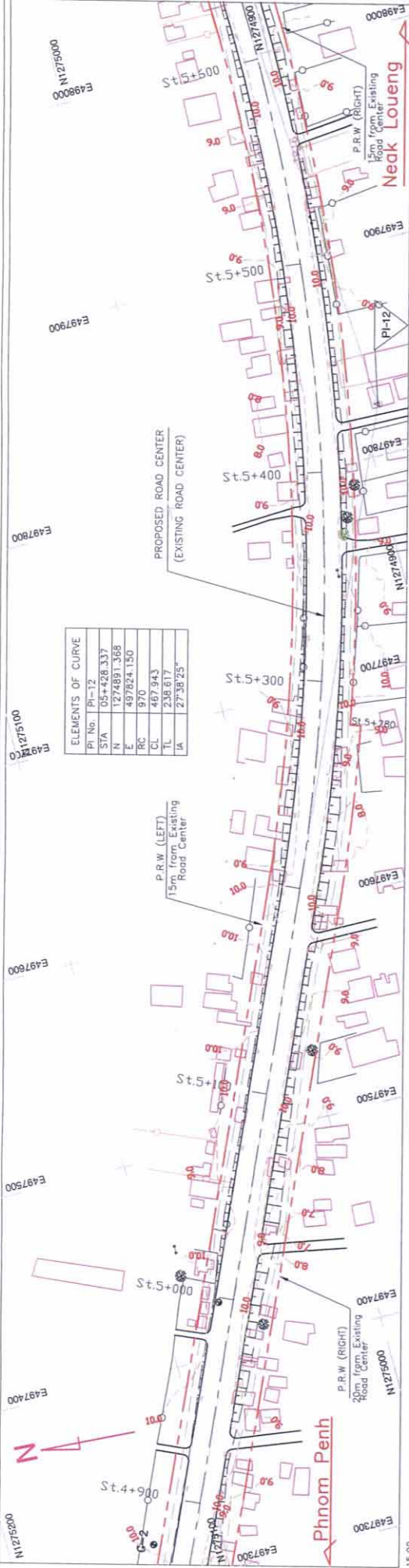
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO., LTD

TITLE : PLAN AND PROFILE (STA. 4+200 - STA. 4+900)

SCALE  
H = 1/2000  
V = 1/200

Drawing No. \_\_\_\_\_  
Sheet No. PL-7

TYPE 3



CROSS SECTION TYPE	TYPE 3	TYPE 3	TYPE 4	TYPE 4
SUPER-ELEVATION	NC	NC	NC	NC
HORIZONTAL CURVATURE	Rc=∞ L=1389.108	Rc=∞ L=1389.108	Rc=970 Lc=167.943	Rc=970 Lc=167.943
STATION	4+900	4+900	4+900	4+900
GROUND HEIGHT	11.245	11.244	11.235	11.231
PAVEMENT HEIGHT	11.243	11.241	11.235	11.231
VERTICAL ALIGNMENT	11.240	11.240	11.235	11.231

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

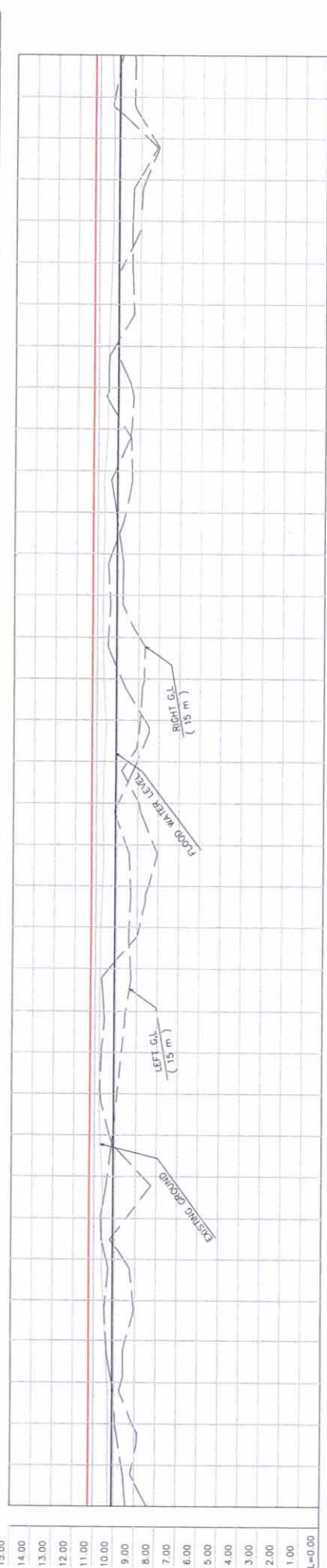
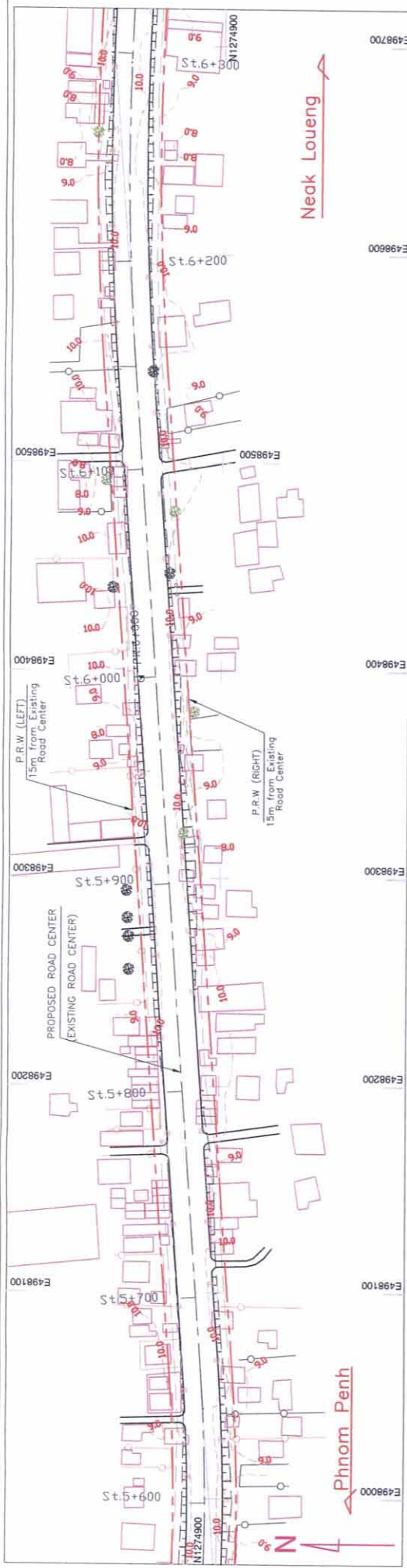
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE (STA.4+900--STA.5+600)

SCALE H=1/2000 V=1/200

Drawing No. Sheet No. PL-8





CROSS SECTION TYPE	SUPER-ELEVATION	HORIZONTAL CURVATURE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
TYPE 4	3.00	3.00	5+600	11.226		$L = -0.000$ $L = -870.221$
	3.00	3.00	5+620	11.226		
TYPE 4	3.00	3.00	5+640	11.226		$R_c=970$ $L_c=467.943$
	3.00	3.00	5+660	11.225		
TYPE 4	3.00	3.00	5+680	11.225		$R_c=1400$ $L_c=366.269$
	3.00	3.00	5+700	11.224		
TYPE 4	3.00	3.00	5+720	11.224		$R_c=800$ $L_c=484.908$
	3.00	3.00	5+740	11.223		
TYPE 4	3.00	3.00	5+760	11.223		$e=3\%$
	3.00	3.00	5+780	11.222		
TYPE 4	3.00	3.00	5+800	10.78		$e=3\%$
	3.00	3.00	5+820	10.77		
TYPE 4	3.00	3.00	5+840	10.78		$e=3\%$
	3.00	3.00	5+860	10.75		
TYPE 4	3.00	3.00	5+880	10.75		$e=3\%$
	3.00	3.00	5+900	10.68		
TYPE 4	3.00	3.00	5+920	10.64		$e=3\%$
	3.00	3.00	5+940	10.67		
TYPE 4	3.00	3.00	5+960	10.62		$e=3\%$
	3.00	3.00	5+980	10.56		
TYPE 4	3.00	3.00	6+000	10.66		$e=3\%$
	3.00	3.00	6+020	10.72		
TYPE 4	3.00	3.00	6+040	10.73		$e=3\%$
	3.00	3.00	6+060	11.216		
TYPE 4	3.00	3.00	6+080	10.67		$e=3\%$
	3.00	3.00	6+100	11.215		
TYPE 4	3.00	3.00	6+120	10.56		$e=3\%$
	3.00	3.00	6+140	10.54		
TYPE 4	3.00	3.00	6+160	10.50		$e=3\%$
	3.00	3.00	6+180	10.45		
TYPE 4	3.00	3.00	6+200	10.36		$e=3\%$
	3.00	3.00	6+220	10.33		
TYPE 4	3.00	3.00	6+240	11.212		$e=3\%$
	3.00	3.00	6+260	10.31		
TYPE 4	3.00	3.00	6+280	10.34		$e=3\%$
	3.00	3.00	6+300	10.42		

**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**

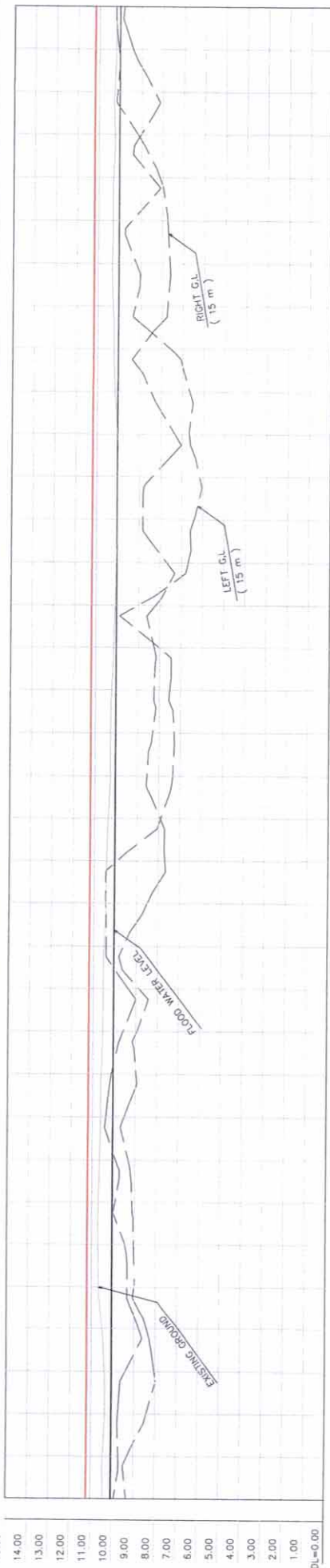
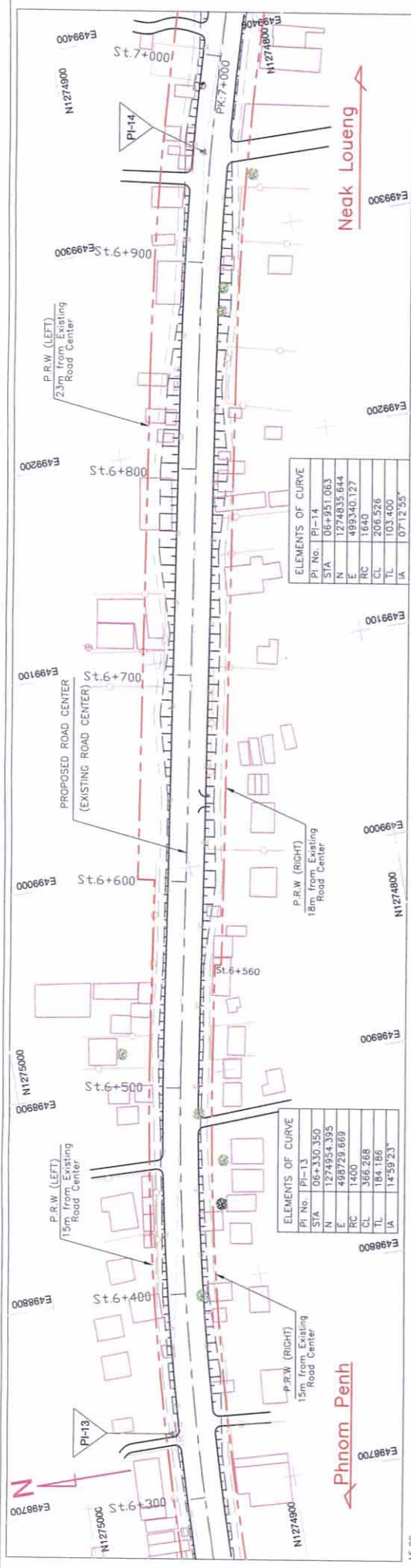
**JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD**

**TITLE : PLAN AND PROFILE (STA.5+600 - STA.6+300)**

**SCALE**  
 H= 1/2000  
 V= 1/200

**Drawing No.**  
 Sheet No.  
 PL-9

**TYPE 4**



CROSS SECTION TYPE	TYPE 4	TYPE 4
SURFACE ELEVATION	3.00	3.00
GROUND ELEVATION	3.00	3.00
STATION	6+490	6+830
GROUND HEIGHT	3.00	3.00
PAVEMENT HEIGHT	3.00	3.00
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+400	6+820
GROUND HEIGHT	10.66	10.17
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+420	6+800
GROUND HEIGHT	10.66	10.04
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+440	6+780
GROUND HEIGHT	10.66	10.01
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+460	6+760
GROUND HEIGHT	10.66	10.02
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+480	6+740
GROUND HEIGHT	10.62	10.06
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+500	6+700
GROUND HEIGHT	10.61	10.16
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+520	6+680
GROUND HEIGHT	10.55	10.24
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+540	6+640
GROUND HEIGHT	10.53	10.28
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+560	6+600
GROUND HEIGHT	10.51	10.44
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+580	6+580
GROUND HEIGHT	10.50	10.44
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+600	6+540
GROUND HEIGHT	10.42	10.53
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+620	6+520
GROUND HEIGHT	10.36	10.55
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+640	6+480
GROUND HEIGHT	10.28	10.62
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+660	6+460
GROUND HEIGHT	10.28	10.66
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+680	6+440
GROUND HEIGHT	10.24	10.70
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+700	6+420
GROUND HEIGHT	10.16	10.70
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+720	6+400
GROUND HEIGHT	10.11	10.66
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+740	6+380
GROUND HEIGHT	10.06	10.50
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+760	6+360
GROUND HEIGHT	10.02	10.38
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+780	6+340
GROUND HEIGHT	10.01	10.36
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+800	6+320
GROUND HEIGHT	10.04	10.44
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+820	6+300
GROUND HEIGHT	10.17	10.42
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+840	6+280
GROUND HEIGHT	10.25	10.44
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+860	6+260
GROUND HEIGHT	10.29	10.53
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+880	6+240
GROUND HEIGHT	10.34	10.51
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+900	6+220
GROUND HEIGHT	10.31	10.42
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+920	6+200
GROUND HEIGHT	10.30	10.30
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+940	6+180
GROUND HEIGHT	11.96	10.28
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+960	6+160
GROUND HEIGHT	11.96	10.28
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	6+980	6+140
GROUND HEIGHT	11.95	10.21
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526
STATION	7+000	6+120
GROUND HEIGHT	11.95	10.20
PAVEMENT HEIGHT	10.70	10.30
VERTICAL ALIGNMENT	EC	RC
HORIZONTAL CURVATURE	RC=1400 LC=366.268	RC=1640 LC=206.526

**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**

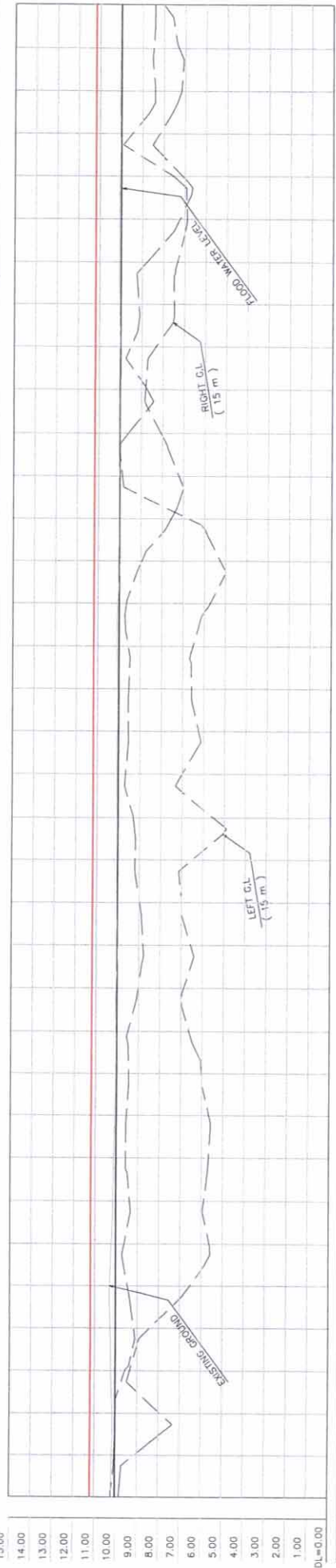
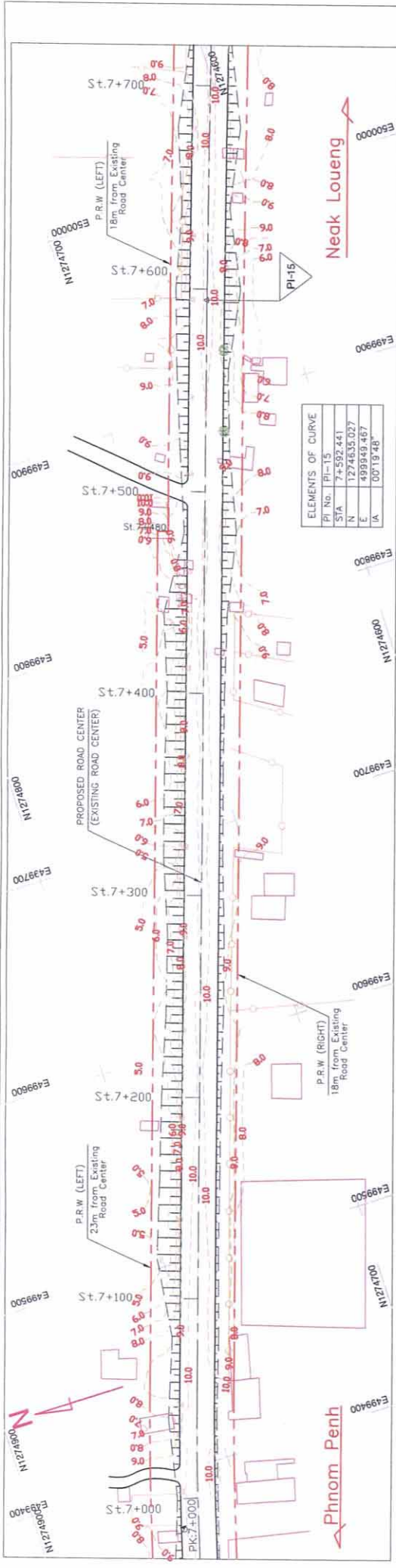
**JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD**

**TITLE : PLAN AND PROFILE (STA.6+300-STA.7+000)**

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

Drawing No. Sheet No. PL-10





CROSS SECTION TYPE	SUPER-ELEVATION	HORIZONTAL	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
TYPE-4	RC 3.00	RC=1640 Lc=206.526	7+000	11.195		[L=20.0023] [R=420.00]
	RC 3.00		7+020	11.194		
TYPE-4	RC 3.00		7+040	10.16		Rc=∞ L=538.115
	RC 3.00		7+060	11.194		
TYPE-4	RC 3.00		7+080	11.193		Rc=∞ L=538.115
	RC 3.00		7+100	10.29		
TYPE-4	RC 3.00		7+120	11.192		Rc=∞ L=538.115
	RC 3.00		7+140	11.192		
TYPE-4	RC 3.00		7+160	11.191		Rc=∞ L=538.115
	RC 3.00		7+180	11.191		
TYPE-4	RC 3.00		7+200	11.190		Rc=∞ L=538.115
	RC 3.00		7+220	11.190		
TYPE-4	RC 3.00		7+240	11.189		Rc=∞ L=538.115
	RC 3.00		7+260	11.189		
TYPE-4	RC 3.00		7+280	11.189		Rc=∞ L=538.115
	RC 3.00		7+300	11.188		
TYPE-4	RC 3.00		7+320	11.188		Rc=∞ L=538.115
	RC 3.00		7+340	11.187		
TYPE-4	RC 3.00		7+360	11.187		Rc=∞ L=538.115
	RC 3.00		7+380	11.186		
TYPE-4	RC 3.00		7+400	11.186		Rc=∞ L=538.115
	RC 3.00		7+420	11.185		
TYPE-4	RC 3.00		7+440	11.185		Rc=∞ L=538.115
	RC 3.00		7+460	11.184		
TYPE-4	RC 3.00		7+480	11.184		Rc=∞ L=538.115
	RC 3.00		7+500	11.184		
TYPE-4	RC 3.00		7+520	11.183		Rc=∞ L=538.115
	RC 3.00		7+540	11.183		
TYPE-4	RC 3.00		7+560	11.182		Rc=∞ L=538.115
	RC 3.00		7+580	11.182		
TYPE-4	RC 3.00		7+600	11.181		Rc=∞ L=538.115
	RC 3.00		7+620	11.181		
TYPE-4	RC 3.00		7+640	11.180		Rc=∞ L=538.115
	RC 3.00		7+660	11.180		
TYPE-4	RC 3.00		7+680	11.180		Rc=∞ L=538.115
	RC 3.00		7+700	11.179		

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

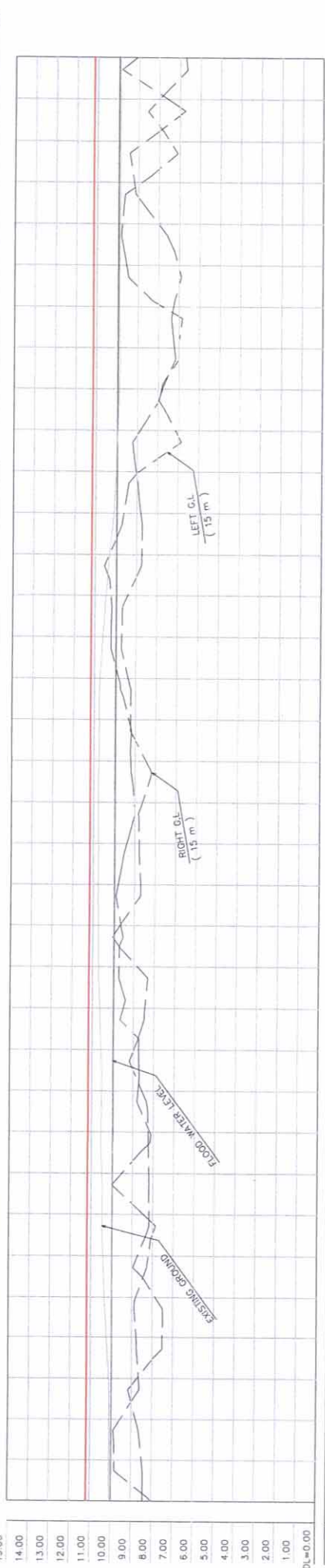
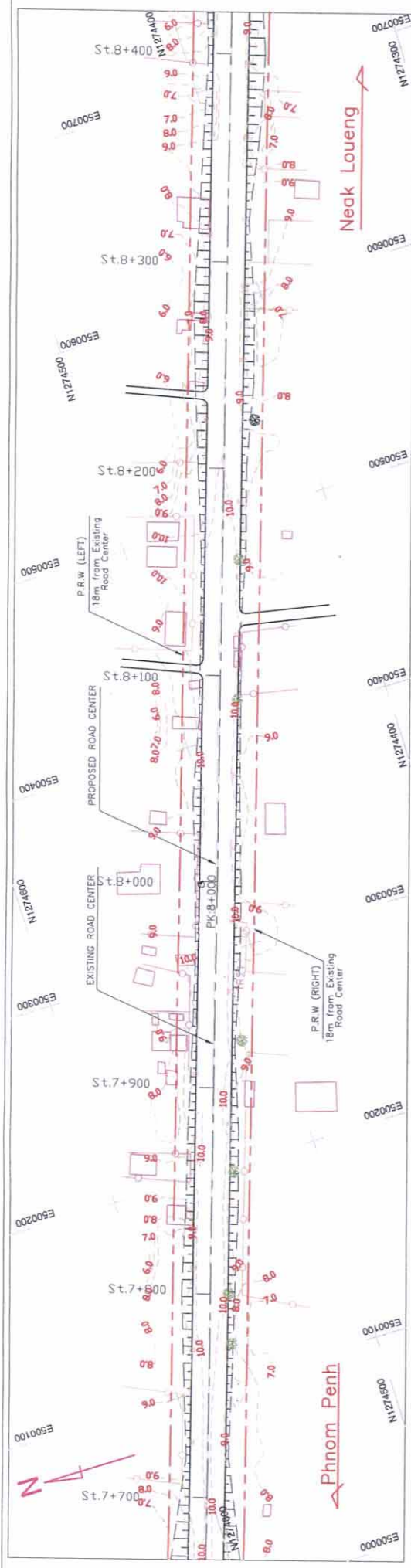
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE (STA.7+000 - STA.7+700)

SCALE  
H= 1/2000  
V= 1/200

Drawing No.  
Sheet No.  
PL-11

TYPE-4



CROSS SECTION TYPE	TYPE-4	
SUPER-ELEVATION	NC	
HORIZONTAL CURVATURE	Rc=∞ L=1963.997	
STATION	GROUND HEIGHT	PAVEMENT HEIGHT
7+700	10.05	11.179
7+720	10.06	11.179
7+740	10.07	11.178
7+760	10.10	11.178
7+780	10.22	11.177
7+800	10.32	11.177
7+820	10.40	11.176
7+840	10.46	11.176
7+860	10.48	11.175
7+880	10.53	11.175
7+900	10.51	11.175
7+920	10.56	11.174
7+940	10.63	11.174
7+960	10.70	11.173
7+980	10.73	11.173
8+000	10.76	11.172
8+020	10.75	11.172
8+040	10.77	11.171
8+060	10.75	11.171
8+080	10.74	11.170
8+100	10.72	11.170
8+120	10.60	11.170
8+140	10.46	11.169
8+160	10.30	11.169
8+180	10.11	11.168
8+200	10.01	11.168
8+220	9.94	11.167
8+240	9.87	11.167
8+260	9.84	11.166
8+280	9.88	11.166
8+300	9.89	11.166
8+320	9.86	11.165
8+340	9.84	11.165
8+360	9.86	11.164
8+380	9.88	11.164
8+400	9.89	11.163

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.7+700-STA.8+400)

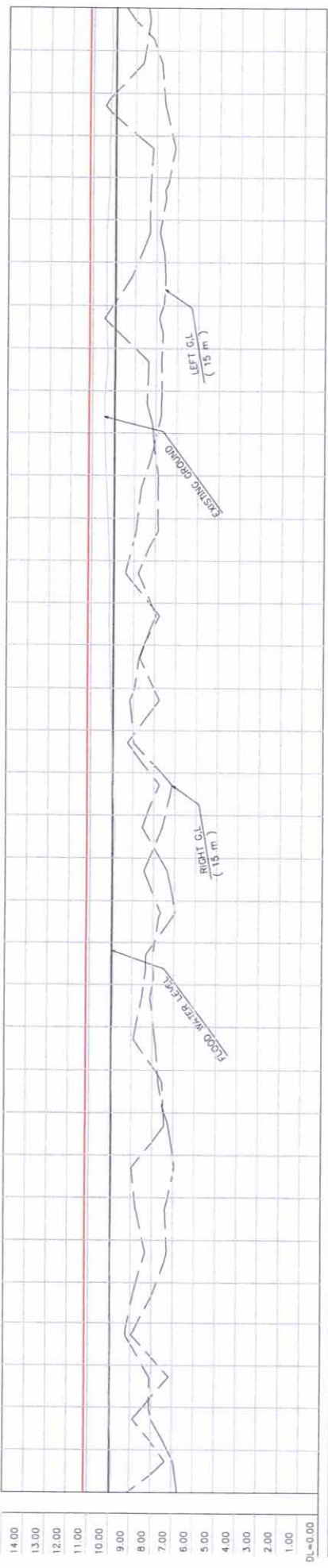
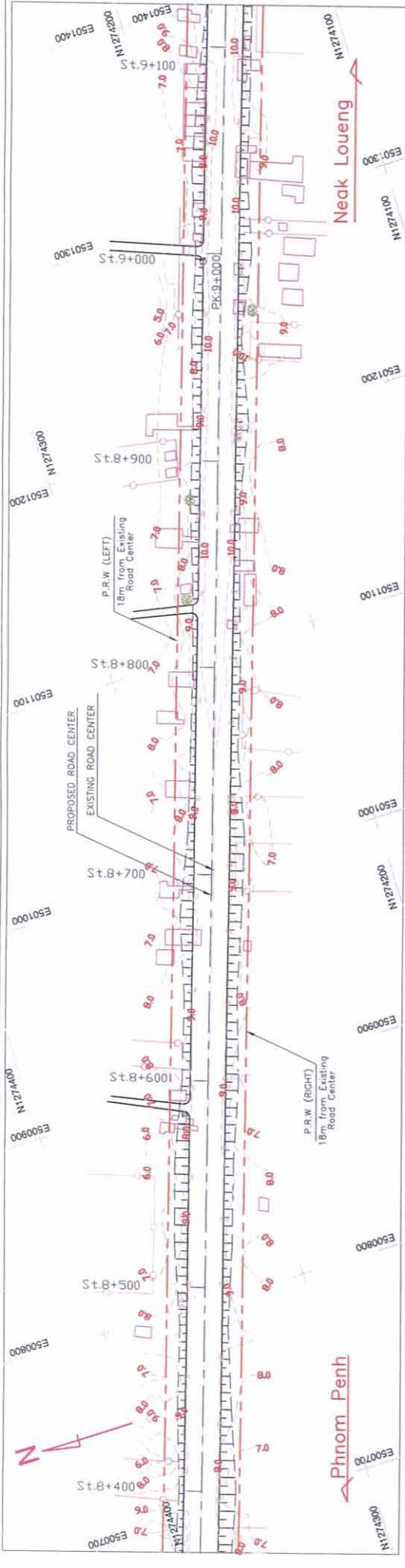
SCALE H=1/2000 V=1/200

Drawing No. PL-12

Sheet No. PL-12

TYPE-4





VERTICAL ALIGNMENT	PAYMENT HEIGHT	GROUND HEIGHT	STATION	HORIZONTAL CURVATURE	CROSS SECTION TYPE
$\frac{1}{L} = \frac{0.0025}{9+20.00}$	11.163	9.89	8+400		TYPE-4
	11.162	9.88	8+420		
	11.162	9.95	8+440		
	11.162	9.93	8+460		
	11.161	9.94	8+480		
	11.161	9.92	8+500		
	11.161	9.92	8+520		
	11.160	9.89	8+540		
	11.160	9.88	8+560		
	11.157	9.88	8+580		
	11.157	9.86	8+600		
	11.158	9.91	8+620		
	11.158	9.96	8+640		
	11.157	9.96	8+660		
	11.156	9.95	8+740		
11.155	9.98	8+760			
11.155	10.06	8+780			
11.154	10.12	8+800			
11.154	10.13	8+820			
11.153	10.15	8+840			
11.153	10.23	8+860			
11.152	10.33	8+880			
11.152	10.40	8+900			
11.152	10.39	8+920			
11.151	10.30	8+940			
11.151	10.35	8+960			
11.151	10.36	8+980			
11.150	10.33	9+000			
11.149	10.21	9+020			
11.149	10.21	9+040			
11.148	10.17	9+060			
11.148	10.11	9+080			
11.147	10.16	9+100			

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

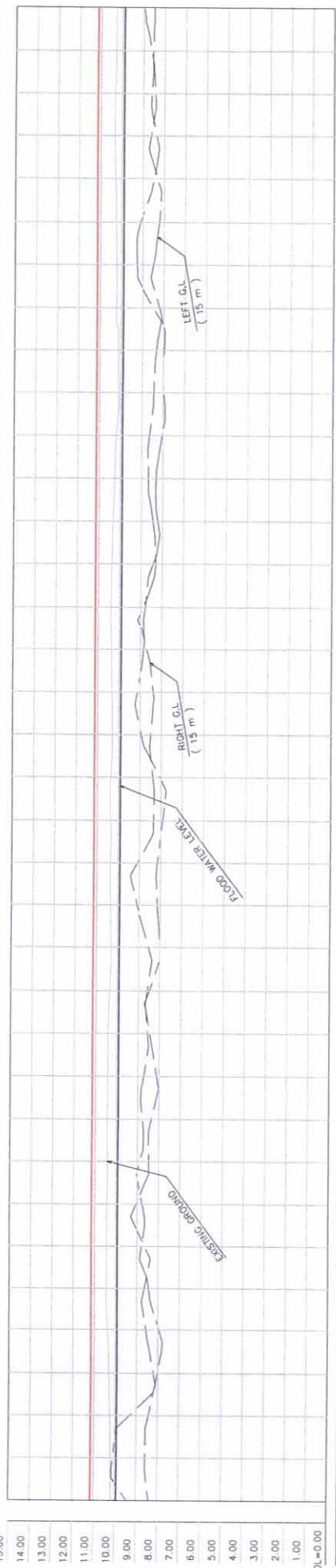
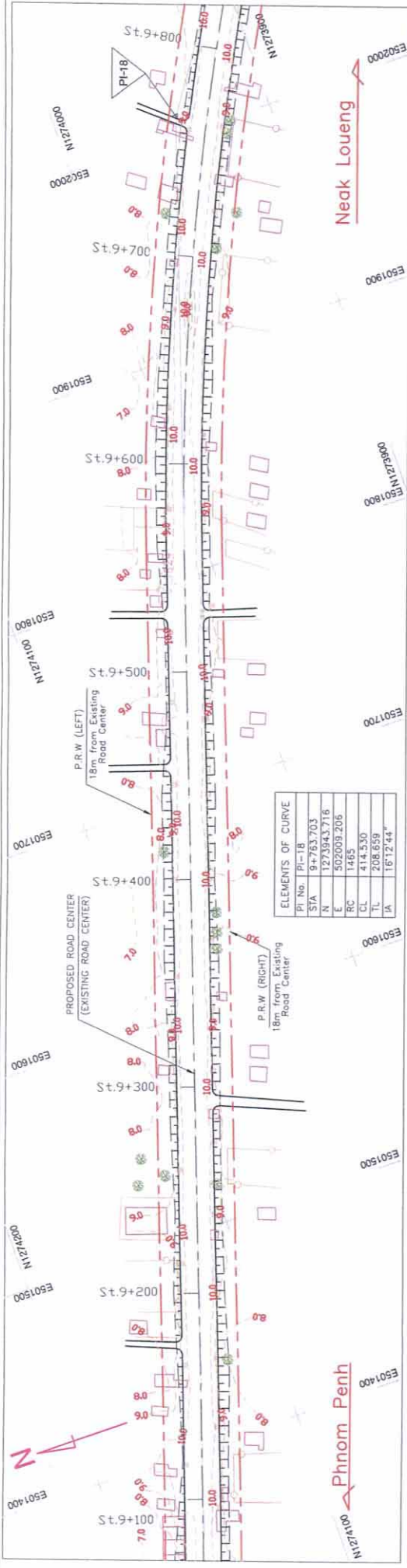
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE (STA.8+400 - STA.9+100)

SCALE  
H=1/2000  
V=1/200

Drawing No.  
Sheet No.  
PL-13

TYPE-4



CROSS SECTION TYPE	TYPE-4
STATION	9+100 9+120 9+140 9+160 9+180 9+200 9+220 9+240 9+260 9+280 9+300 9+320 9+340 9+360 9+380 9+400 9+420 9+440 9+460 9+480 9+500 9+520 9+540 9+560 9+580 9+600 9+620 9+640 9+660 9+680 9+700 9+720 9+740 9+760 9+780 9+800
GROUND HEIGHT	10.16 11.147 11.147 10.23 11.147 11.146 10.36 11.146 11.145 10.43 11.145 10.42 11.143 10.42 11.143 9+300 11.143 10.41 11.143 9+340 10.35 11.142 9+360 10.29 11.142 9+380 10.34 11.141 9+400 10.36 11.141 9+420 10.35 11.140 9+440 10.36 11.140 9+460 10.30 11.139 9+480 10.33 11.139 9+500 10.37 11.138 9+520 10.39 11.138 9+540 10.37 11.138 9+560 10.32 11.137 9+580 10.26 11.137 9+600 10.19 11.136 9+620 10.09 11.136 9+640 10.12 11.135 9+660 10.22 11.135 9+680 10.20 11.134 9+700 10.25 11.134 9+720 10.29 11.133 9+740 10.33 11.133 9+760 10.33 11.133 9+780 10.27 11.132 9+800 10.29 11.132
PAYMENT HEIGHT	
HORIZONTAL CURVATURE	Rc=∞ L=1953.997
SUPER-ELEVATION	NC
VERTICAL CURVATURE	Rc=1465 Lc=414.530

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

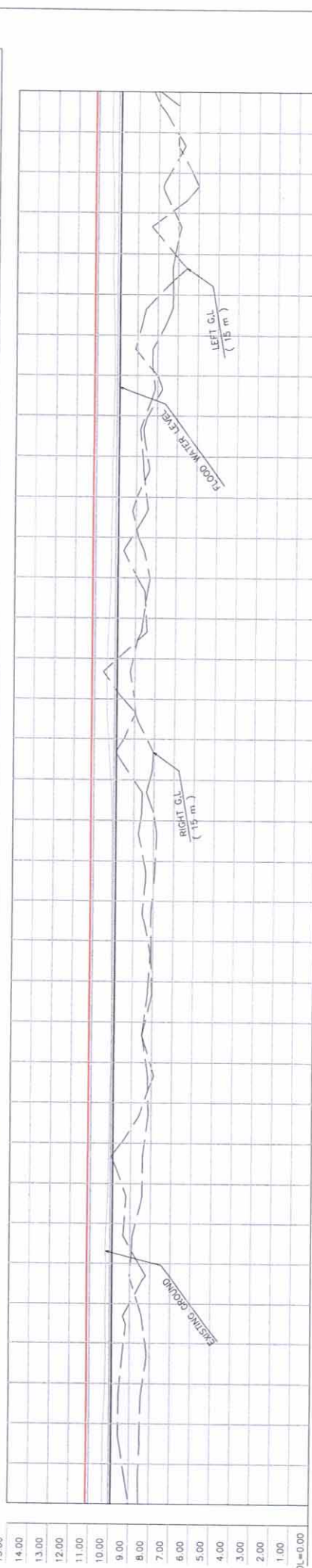
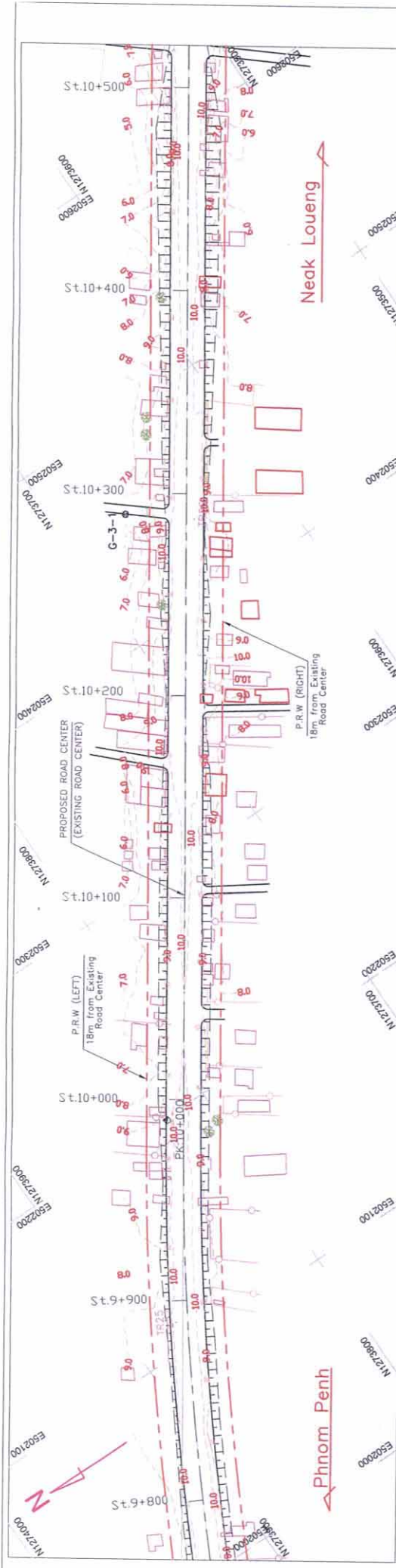
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE (STA.9+100-STA.9+800)

SCALE H=1/2000 V=1/200

Drawing No. Sheet No. PL-14





VERTICAL ALIGNMENT	STATION	GROUND HEIGHT	PAVEMENT HEIGHT
	9+800	11.32	
	9+820	11.31	
	9+840	11.31	
	9+860	11.30	
	9+880	11.30	
	9+900	11.29	
	9+920	11.29	
	9+940	11.29	
	9+960	11.28	
	9+980	11.28	
	10+000	11.27	
	10+020	11.27	
	10+040	11.26	
	10+060	11.26	
	10+080	11.25	
	10+100	11.25	
	10+120	11.24	
	10+140	11.24	
	10+160	11.24	
	10+180	11.23	
	10+200	11.23	
	10+220	11.22	
	10+240	11.22	
	10+260	11.21	
	10+280	11.21	
	10+300	11.20	
	10+320	11.20	
	10+340	11.20	
	10+360	11.19	
	10+380	11.19	
	10+400	11.18	
	10+420	11.18	
	10+440	11.17	
	10+460	11.17	
	10+480	11.16	
	10+500	11.16	

TYPE-4

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

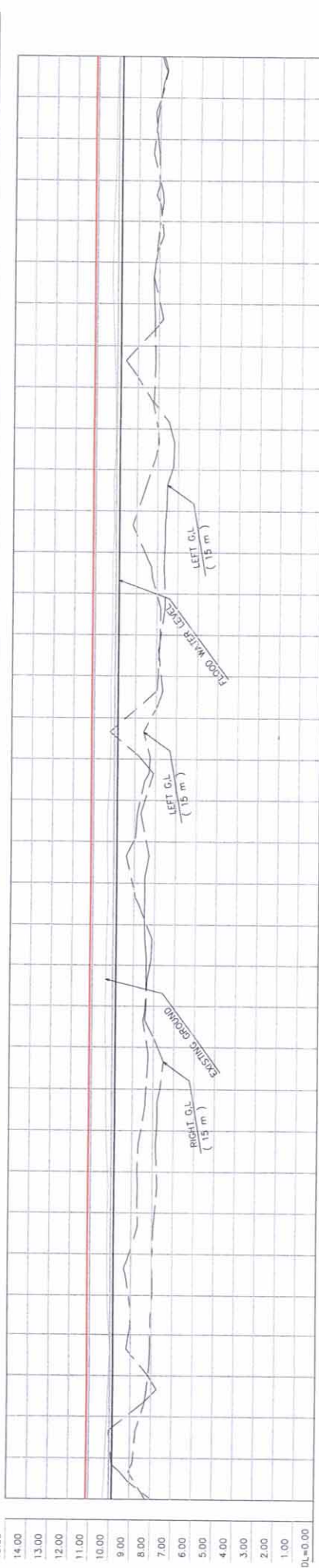
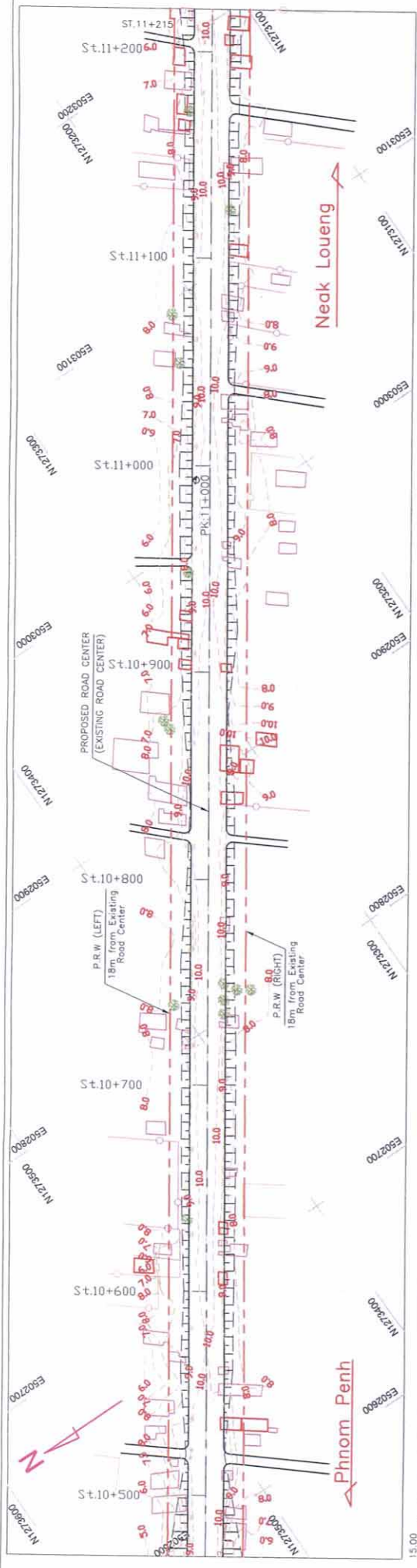
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE: PLAN AND PROFILE (STA.9+800—STA.10+500)

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

Drawing No. \_\_\_\_\_  
Sheet No. PL-15

TYPE-4



TYPE	CROSS SECTION	TYPE-4
TYPE-4	TYPE-4	TYPE-4
SURFACE ELEVATION	NC	NC
HORIZONTAL	$R_c = \infty$ $L = 2290.318$	
STATION	11.116	11.116
GROUND HEIGHT	10.29	10.29
PAVEMENT HEIGHT	11.115	11.115
VERTICAL ALIGNMENT	11.115	11.115
VERTICAL ALIGNMENT	11.114	11.114
VERTICAL ALIGNMENT	11.113	11.113
VERTICAL ALIGNMENT	11.112	11.112
VERTICAL ALIGNMENT	11.112	11.112
VERTICAL ALIGNMENT	10.26	10.26
VERTICAL ALIGNMENT	11.111	11.111
VERTICAL ALIGNMENT	10.29	10.29
VERTICAL ALIGNMENT	11.111	11.111
VERTICAL ALIGNMENT	10.32	10.32
VERTICAL ALIGNMENT	11.110	11.110
VERTICAL ALIGNMENT	10.35	10.35
VERTICAL ALIGNMENT	11.110	11.110
VERTICAL ALIGNMENT	10.33	10.33
VERTICAL ALIGNMENT	11.109	11.109
VERTICAL ALIGNMENT	10.27	10.27
VERTICAL ALIGNMENT	11.108	11.108
VERTICAL ALIGNMENT	10.28	10.28
VERTICAL ALIGNMENT	11.108	11.108
VERTICAL ALIGNMENT	10.19	10.19
VERTICAL ALIGNMENT	11.107	11.107
VERTICAL ALIGNMENT	10.18	10.18
VERTICAL ALIGNMENT	11.106	11.106
VERTICAL ALIGNMENT	10.16	10.16
VERTICAL ALIGNMENT	11.104	11.104
VERTICAL ALIGNMENT	10.08	10.08
VERTICAL ALIGNMENT	11.103	11.103
VERTICAL ALIGNMENT	10.15	10.15
VERTICAL ALIGNMENT	11.102	11.102
VERTICAL ALIGNMENT	10.21	10.21
VERTICAL ALIGNMENT	11.101	11.101
VERTICAL ALIGNMENT	10.14	10.14
VERTICAL ALIGNMENT	11.101	11.101
VERTICAL ALIGNMENT	10.09	10.09
VERTICAL ALIGNMENT	11.101	11.101
VERTICAL ALIGNMENT	10.04	10.04
VERTICAL ALIGNMENT	11.100	11.100

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

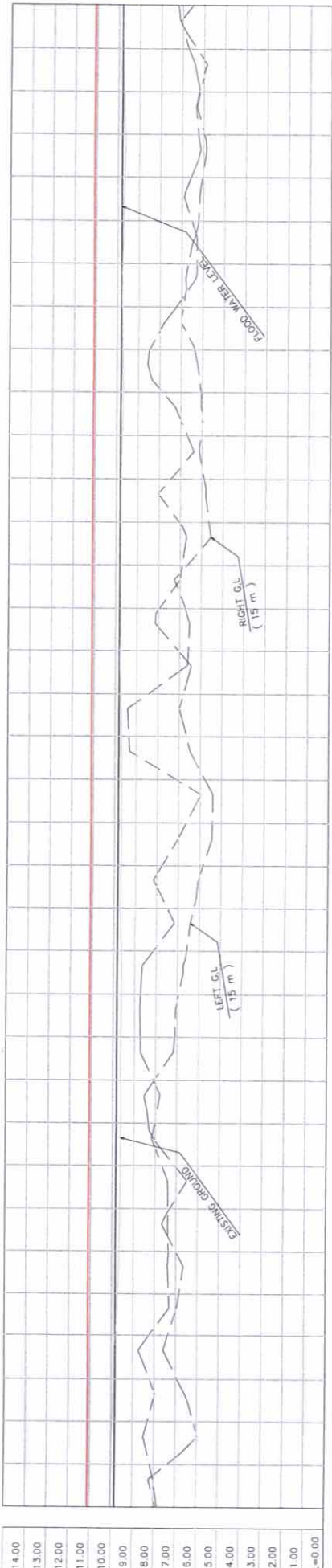
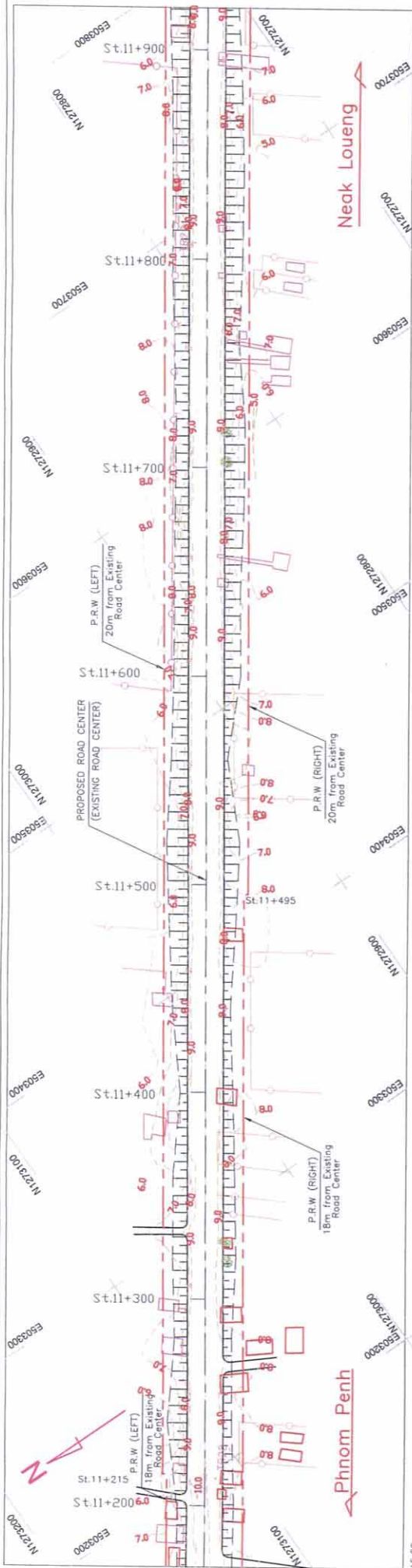
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE (STA.10+500-ST.11+200)

SCALE  
H= 1/2000  
V= 1/200

Drawing No.  
Sheet No.  
PL-16





TYPE	SECTION	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
TYPE-4	TYPE-4	11.100	10.04	11.200	11.100
		11.099	9.95	11.240	11.099
		11.098	9.89	11.260	11.098
		11.097	9.83	11.280	11.097
		11.096	9.71	11.300	11.096
		11.095	9.65	11.320	11.095
		11.094	9.63	11.340	11.094
		11.093	9.62	11.360	11.093
		11.092	9.62	11.380	11.092
		11.091	9.62	11.400	11.091
TYPE-4	TYPE-4	11.090	9.63	11.420	11.090
		11.089	9.61	11.440	11.089
		11.088	9.62	11.460	11.088
		11.087	9.68	11.480	11.087
		11.086	9.68	11.500	11.086
		11.085	9.69	11.520	11.085
		11.084	9.67	11.540	11.084
		11.083	9.67	11.560	11.083
		11.082	9.73	11.580	11.082
		11.081	9.78	11.600	11.081
TYPE-4	TYPE-4	11.080	9.76	11.620	11.080
		11.079	9.77	11.640	11.079
		11.078	9.78	11.660	11.078
		11.077	9.76	11.680	11.077
		11.076	9.72	11.700	11.076
		11.075	9.69	11.720	11.075
		11.074	9.67	11.740	11.074
		11.073	9.77	11.760	11.073
		11.072	9.76	11.780	11.072
		11.071	9.71	11.800	11.071
TYPE-4	TYPE-4	11.070	9.66	11.820	11.070
		11.069	9.66	11.840	11.069
		11.068	9.76	11.860	11.068
		11.067	9.76	11.880	11.067
		11.066	9.78	11.900	11.066
		11.065	9.76	11.920	11.065
		11.064	9.78	11.940	11.064
		11.063	9.77	11.960	11.063
		11.062	9.72	11.980	11.062
		11.061	9.69	12.000	11.061

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

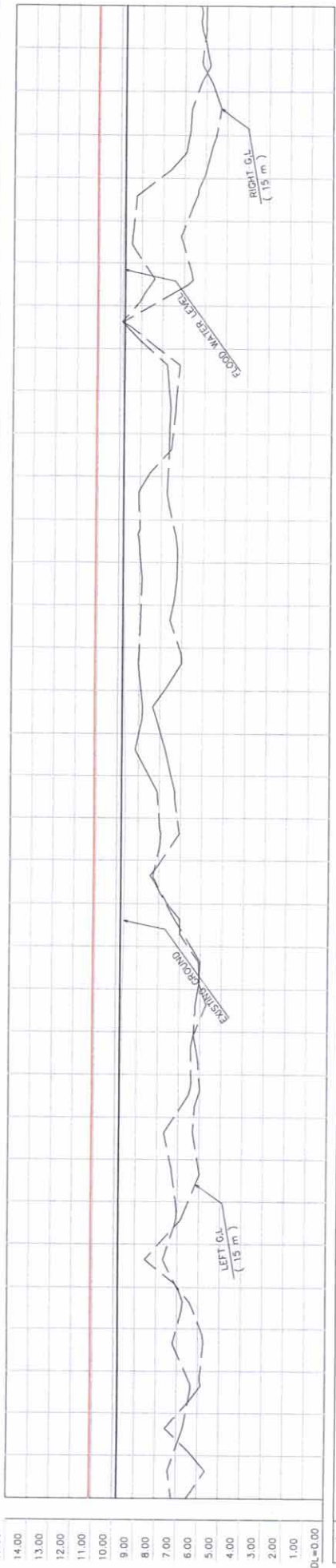
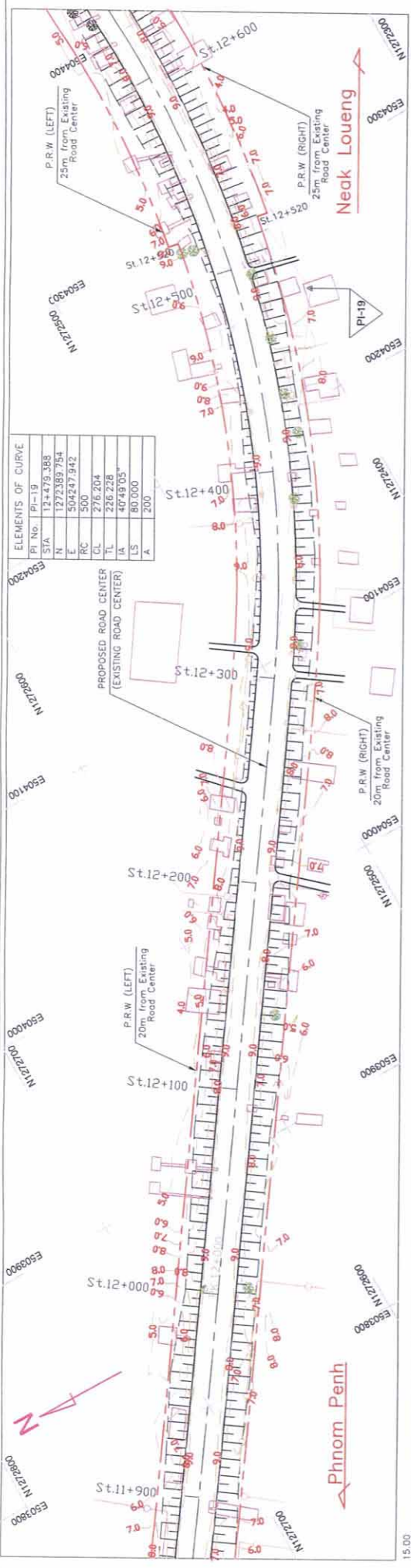
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE (STA.11+200~STA.11+900)

SCALE  
H=1/2000  
V=1/200

Drawing No.  
Sheet No.  
PL-17

TYPE-4



CROSS SECTION TYPE	TYPE-4
SUPER-ELEVATION	NC
HORIZONTAL CURVATURE	Rc=∞ L=2290.318
VERTICAL ALIGNMENT	TS A=200 Ls=80.00 SC Rc=500 Lc=276.204

**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**

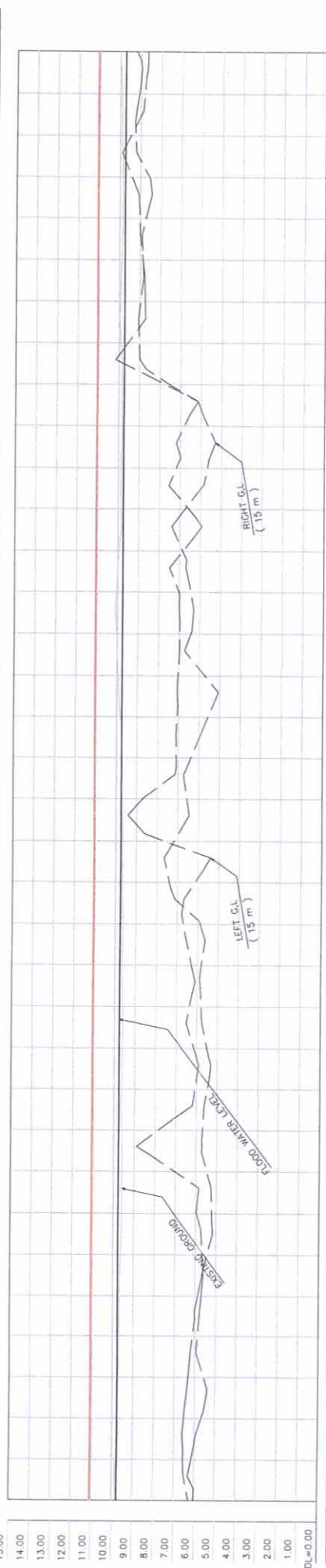
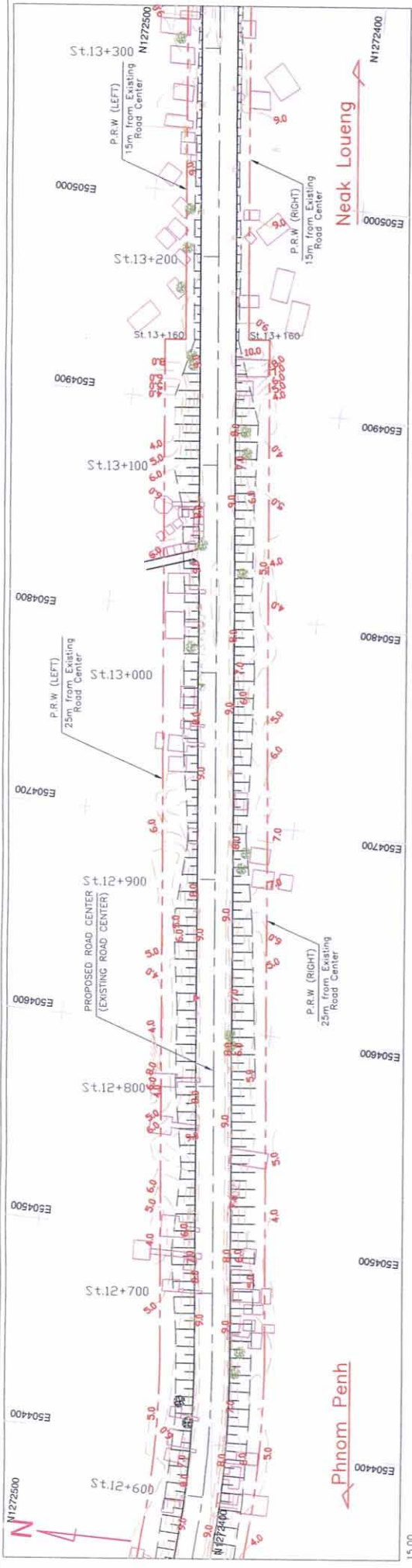
**TITLE : PLAN AND PROFILE (STA.11+900 - STA.12+600)**

**SCALE H=1/2000 V=1/200**

**Drawing No. PL-18**

**Sheet No. PL-18**





CROSS SECTION TYPE	TYPE-4	TYPE-4
GROUND ELEVATION	12+640 4.00	12+700 -3.00
SUPER-ELEVATION	12+640 4.00	12+700 -3.00
HORIZONTAL CURVATURE	CS A=200 Ls=80.00	ST
STATION	12+640 9.71	12+700 9.66
GROUND HEIGHT	12+640 9.82	12+700 9.66
PAVEMENT HEIGHT	12+640 9.73	12+700 9.69
VERTICAL ALIGNMENT	12+640 9.82	12+700 9.66
	12+660 9.71	12+720 9.63
	12+680 9.69	12+740 9.59
	12+700 9.66	12+760 9.59
	12+720 9.63	12+780 9.61
	12+740 9.59	12+800 9.62
	12+760 9.59	12+820 9.59
	12+780 9.61	12+840 9.59
	12+800 9.62	12+860 9.63
	12+820 9.59	12+880 9.63
	12+840 9.59	12+900 9.66
	12+860 9.63	12+920 9.68
	12+880 9.63	12+940 9.69
	12+900 9.66	12+960 9.72
	12+920 9.68	12+980 9.82
	12+940 9.69	13+000 9.94
	12+960 9.72	13+020 10.04
	12+980 9.82	13+040 10.06
	13+000 9.94	13+060 9.93
	13+020 10.04	13+080 9.86
	13+040 10.06	13+100 9.87
	13+060 9.93	13+120 9.84
	13+080 9.86	13+140 9.85
	13+100 9.87	13+160 9.90
	13+120 9.84	13+180 9.94
	13+140 9.85	13+200 9.88
	13+160 9.90	13+220 9.85
	13+180 9.94	13+240 9.85
	13+200 9.88	13+260 9.88
	13+220 9.85	13+280 9.93
	13+240 9.85	13+300 10.00
	13+260 9.88	
	13+280 9.93	
	13+300 10.00	

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

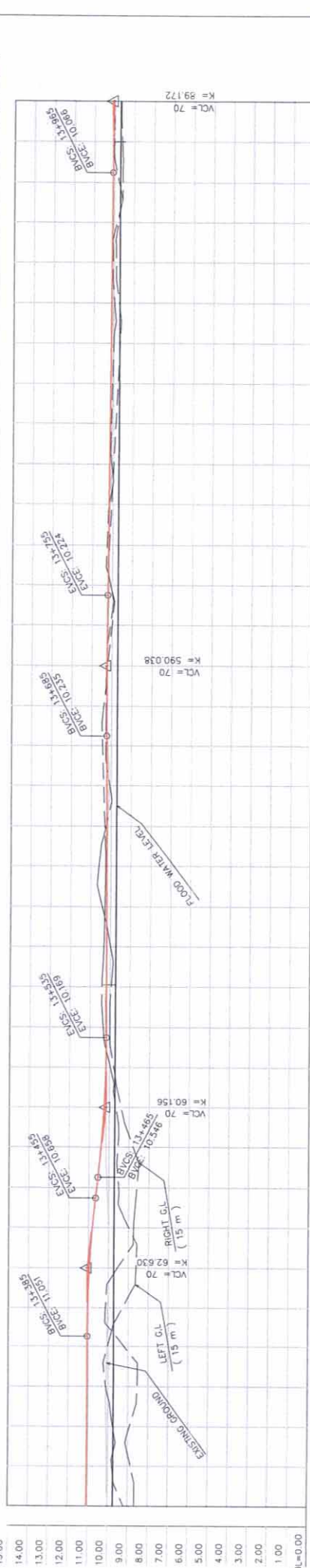
THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

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

TITLE : PLAN AND PROFILE (STA.12+600 - STA.13+300)

SCALE H=1/2000 V=1/200

Drawing No. Sheet No. PL-19



CROSS SECTION TYPE	ELEVATION	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
TYPE-4	3.00	13+500	11.052	10.00	11.053
	3.00	13+420	11.032	10.01	10.932
TYPE-4	4.00	13+300	11.051	10.10	11.051
	4.00	13+200	11.032	10.09	11.032
TYPE-4	4.00	13+100	11.051	10.07	11.051
	4.00	13+000	11.032	10.08	11.032
TYPE-4	4.00	12+900	11.032	10.02	10.808
	4.00	12+800	11.032	10.02	10.808
TYPE-4	4.00	12+700	11.032	10.02	10.808
	4.00	12+600	11.032	10.02	10.808
TYPE-4	4.00	12+500	11.032	10.02	10.808
	4.00	12+400	11.032	10.02	10.808
TYPE-4	4.00	12+300	11.032	10.02	10.808
	4.00	12+200	11.032	10.02	10.808
TYPE-4	4.00	12+100	11.032	10.02	10.808
	4.00	12+000	11.032	10.02	10.808
TYPE-4	4.00	11+900	11.032	10.02	10.808
	4.00	11+800	11.032	10.02	10.808
TYPE-4	4.00	11+700	11.032	10.02	10.808
	4.00	11+600	11.032	10.02	10.808
TYPE-4	4.00	11+500	11.032	10.02	10.808
	4.00	11+400	11.032	10.02	10.808
TYPE-4	4.00	11+300	11.032	10.02	10.808
	4.00	11+200	11.032	10.02	10.808
TYPE-4	4.00	11+100	11.032	10.02	10.808
	4.00	11+000	11.032	10.02	10.808
TYPE-4	4.00	10+900	11.032	10.02	10.808
	4.00	10+800	11.032	10.02	10.808
TYPE-4	4.00	10+700	11.032	10.02	10.808
	4.00	10+600	11.032	10.02	10.808
TYPE-4	4.00	10+500	11.032	10.02	10.808
	4.00	10+400	11.032	10.02	10.808
TYPE-4	4.00	10+300	11.032	10.02	10.808
	4.00	10+200	11.032	10.02	10.808
TYPE-4	4.00	10+100	11.032	10.02	10.808
	4.00	10+000	11.032	10.02	10.808

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

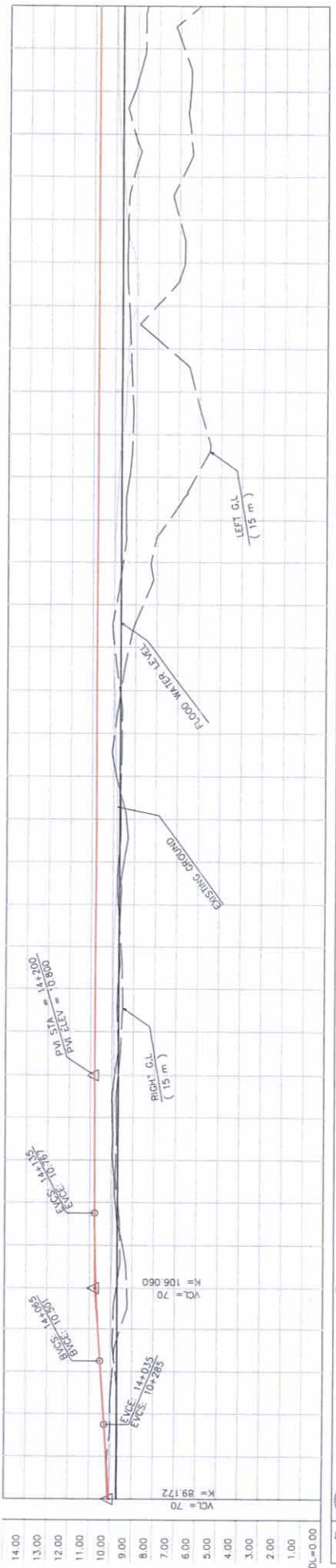
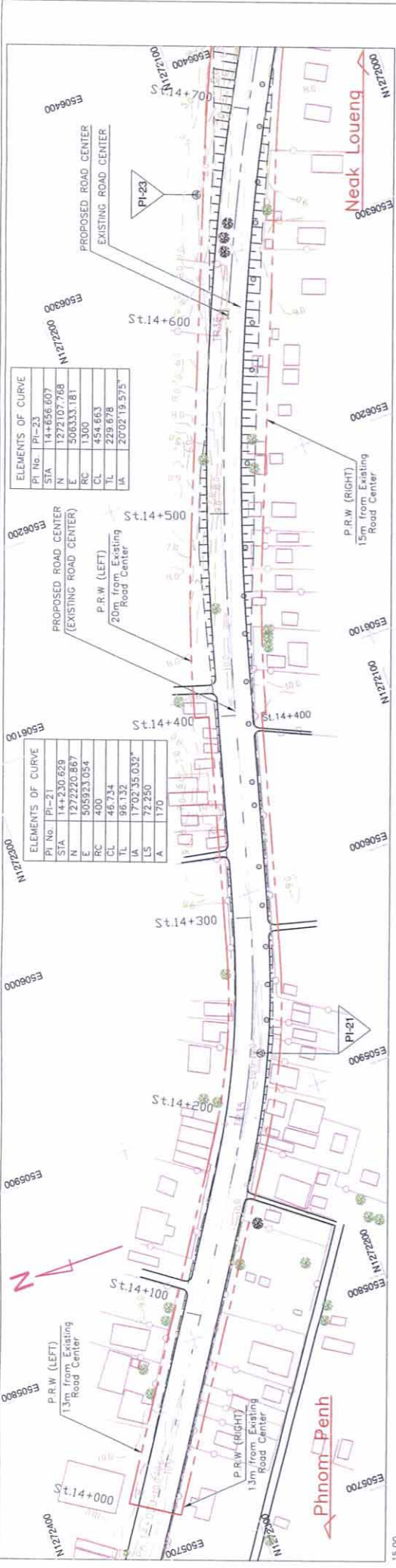
JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL  
CTI ENGINEERING INTERNATIONAL CO.,LTD

TITLE : PLAN AND PROFILE (STA.13+300 - STA.14+000)

SCALE H=1/2000 V=1/200

Drawing No. PL-20 Sheet No. PL-20





CROSS SECTION TYPE	ELEVATION	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	VERTICAL ALIGNMENT
TYPE-4	3.00	10.03	10.03	10.03	TS Rc=∞ L=314.670
	3.00	10.195	10.03	10.195	
TYPE-4	3.00	10.770	9.90	10.770	TS A=170 Ls=72.25
	3.00	10.749	9.93	10.749	
	3.00	10.692	9.97	10.692	
TYPE-4	4.00	10.800	9.90	10.800	SC A=170 Ls=72.25
	4.00	10.790	9.90	10.790	
	4.00	10.780	9.90	10.780	
	4.00	10.770	9.90	10.770	
	4.00	10.760	9.90	10.760	
	4.00	10.750	9.90	10.750	
	4.00	10.740	9.90	10.740	
	4.00	10.730	9.90	10.730	
	4.00	10.720	9.90	10.720	
	4.00	10.710	9.90	10.710	
TYPE-4	3.00	10.790	9.98	10.790	BC Rc=∞ L=89.627
	3.00	10.792	9.95	10.792	
	3.00	10.791	9.98	10.791	
	3.00	10.790	9.98	10.790	
	3.00	10.789	9.97	10.789	
	3.00	10.788	9.91	10.788	
	3.00	10.787	9.81	10.787	
	3.00	10.787	9.63	10.787	
	3.00	10.786	9.45	10.786	
	3.00	10.785	9.37	10.785	
TYPE-4	3.00	10.784	8.97	10.784	BC Rc=1300 Lc=454.663
	3.00	10.783	9.06	10.783	
	3.00	10.782	9.43	10.782	
	3.00	10.781	9.63	10.781	
	3.00	10.780	9.80	10.780	
	3.00	10.779	9.91	10.779	
	3.00	10.778	9.94	10.778	
	3.00	10.778	9.93	10.778	
	3.00	10.770	9.93	10.770	
	3.00	10.770	9.93	10.770	

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

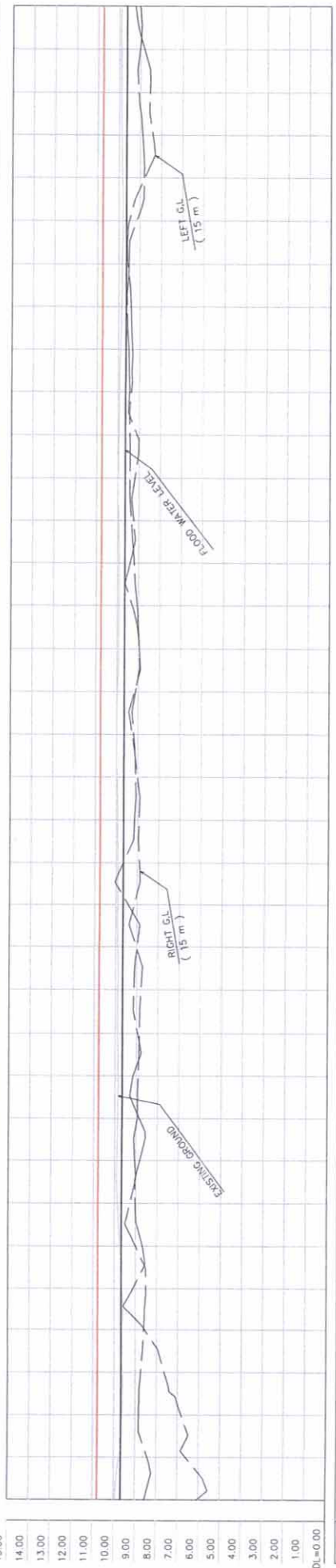
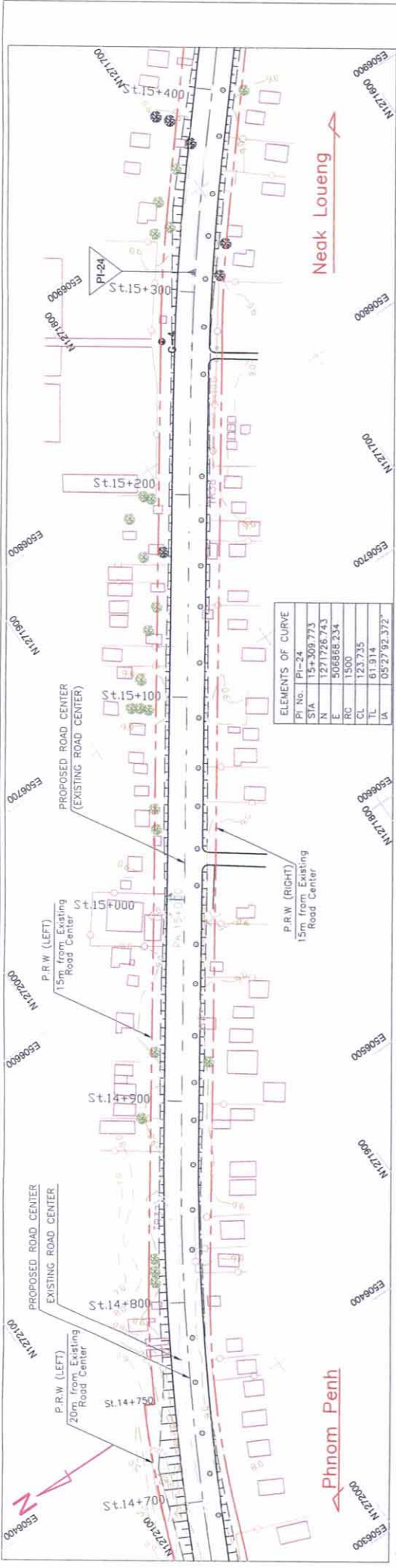
THE PROJECT FOR THE IMPROVEMENT OF NATIONAL ROAD NO.1 (PHNOM PENH-NEAK LOUENG SECTION) IN THE KINGDOM OF CAMBODIA

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

TITLE : PLAN AND PROFILE  
(STA.14+000 - STA.14+700)

SCALE  
H=1/2000  
V=1/200

Drawing No. PL-21  
Sheet No. PL-21



CROSS SECTION TYPE	SUPER-ELEVATION	HORIZONTAL CURVATURE	STATION	GROUND HEIGHT	PAVEMENT HEIGHT	PAVEMENT ALIGNMENT
TYPE-4	e=3%	Rc=1300 Lc=454.663	14+700	9.93	10.778	10.778
			14+720	9.75	10.777	10.777
TYPE-4	e=3%	Rc=1300 Lc=454.663	14+740	9.60	10.776	10.776
			14+760	9.60	10.775	10.775
TYPE-4	e=3%	Rc=1300 Lc=454.663	14+780	9.61	10.774	10.774
			14+800	9.62	10.773	10.773
TYPE-4	e=3%	Rc=1300 Lc=454.663	14+820	9.74	10.772	10.772
			14+840	9.84	10.771	10.771
TYPE-4	e=3%	Rc=1300 Lc=454.663	14+860	9.89	10.770	10.770
			14+880	9.96	10.769	10.769
TYPE-4	e=3%	Rc=1300 Lc=454.663	14+900	9.85	10.769	10.769
			14+920	9.87	10.768	10.768
TYPE-4	e=3%	Rc=1300 Lc=454.663	14+940	9.88	10.767	10.767
			14+960	9.88	10.766	10.766
TYPE-4	e=3%	Rc=1300 Lc=454.663	14+980	9.91	10.765	10.765
			15+000	9.91	10.764	10.764
TYPE-4	e=3%	Rc=1300 Lc=454.663	15+020	9.92	10.763	10.763
			15+040	9.96	10.762	10.762
TYPE-4	e=3%	Rc=1300 Lc=454.663	15+060	9.99	10.761	10.761
			15+080	9.96	10.761	10.761
TYPE-4	e=3%	Rc=1300 Lc=454.663	15+100	9.93	10.760	10.760
			15+120	9.92	10.759	10.759
TYPE-4	e=3%	Rc=1300 Lc=454.663	15+140	9.92	10.758	10.758
			15+160	9.94	10.757	10.757
TYPE-4	e=3%	Rc=1300 Lc=454.663	15+180	9.97	10.756	10.756
			15+200	9.95	10.755	10.755
TYPE-4	e=3%	Rc=1300 Lc=454.663	15+220	9.93	10.754	10.754
			15+240	9.90	10.753	10.753
TYPE-4	e=3%	Rc=1300 Lc=454.663	15+260	9.85	10.752	10.752
			15+280	9.83	10.751	10.751
TYPE-4	e=3%	Rc=1300 Lc=454.663	15+300	9.80	10.751	10.751
			15+320	9.82	10.750	10.750
TYPE-4	e=3%	Rc=1300 Lc=454.663	15+340	9.86	10.749	10.749
			15+360	9.88	10.748	10.748
TYPE-4	e=3%	Rc=1300 Lc=454.663	15+380	9.90	10.747	10.747
			15+400	9.89	10.746	10.746

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.14+700 - STA.15+400

SCALE H=1/2000 V=1/200

Drawing No. Sheet No. PL-22