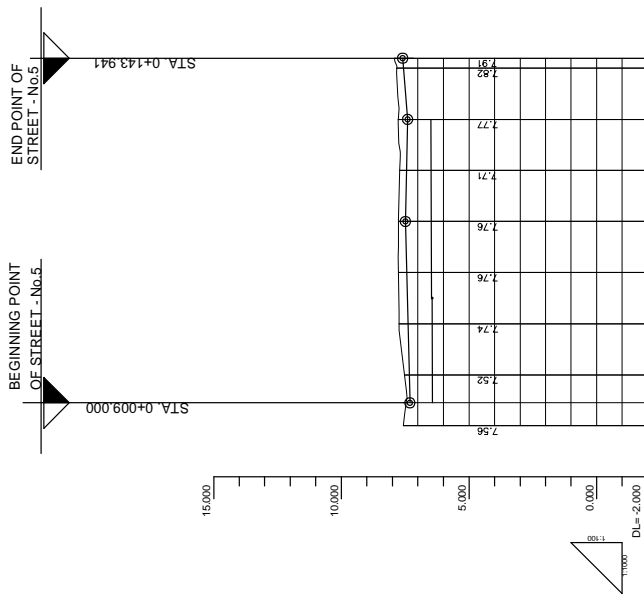


Vertical Alignment	7.64	7.61	7.54	7.55	7.77	7.49	7.44	7.38	7.35	7.42	7.57	7.90	7.67
Finish Grade	7.64	7.61	7.54	7.55	7.77	7.49	7.44	7.38	7.35	7.42	7.57	7.90	7.67
Ground Level	7.65	7.71	7.64	7.75	7.77	7.49	7.80	7.84	7.86	7.77	7.42	7.90	7.67
Station	0+000	0+020	0+040	0+060	0+080	0+100	0+110	0+120	0+140	0+152.873			
Horizontal Alignment													
Superelevation													



Vertical Alignment	7.31	7.34	7.52	7.34	7.44	7.76	7.49	7.45	7.71	7.77	7.40	7.57	7.60
Finish Grade	7.31	7.34	7.52	7.34	7.44	7.76	7.49	7.45	7.71	7.77	7.40	7.57	7.60
Ground Level	7.56	7.52	7.52	7.39	7.74	7.76	7.76	7.76	7.71	7.77	7.40	7.82	7.82
Station	0+000	0+009	0+020	0+040	0+080	0+080	0+080	0+100	0+120	0+140	0+143.941		
Horizontal Alignment													
Superelevation													

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

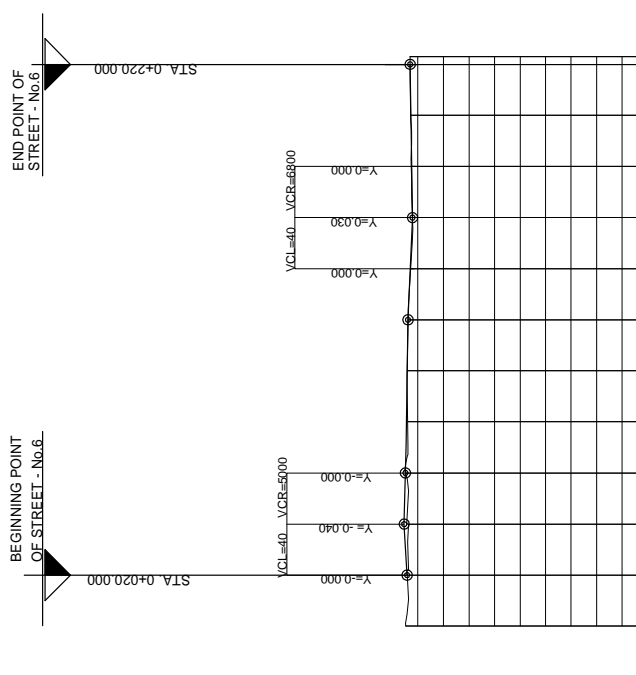
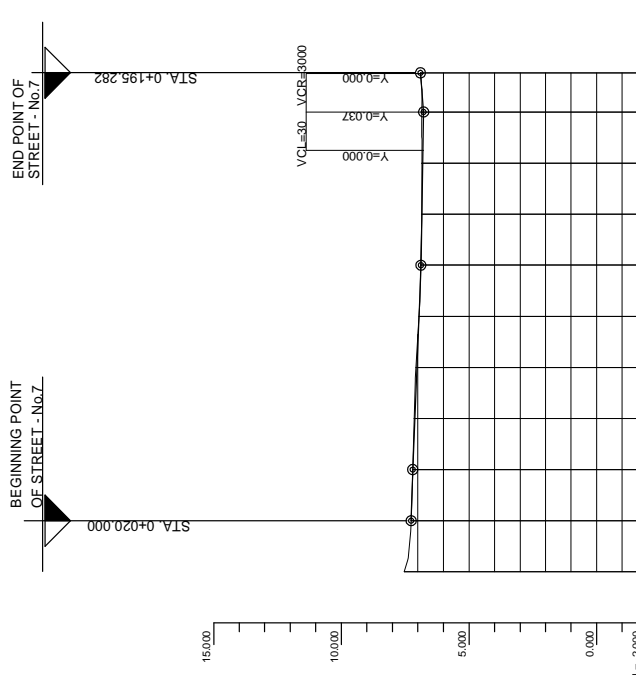
THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL

TITLE : PROFILE STREET No. 3, STREET No. 5

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

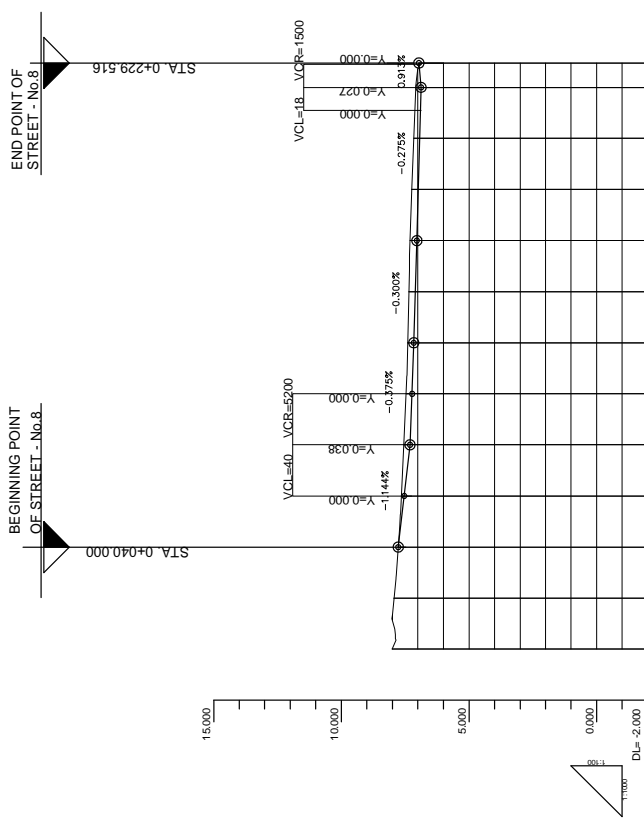
Drawing No. PR-07  
Sheet No. XX



Vertical Alignment	7.26	7.20	7.12	7.04	6.96	6.88	6.84	6.81	6.77	6.90	
Finish Grade	7.26	7.20	7.12	7.04	6.96	6.88	6.84	6.81	6.77	6.90	
Ground Level	7.53	7.20	7.14	7.08	6.96	6.90	6.85	6.84	6.85	6.90	
Station	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+195.282
Horizontal Alignment	R=∞ L=200.000m										
Superelevation	0.980 (2.00%)										

Vertical Alignment	7.42	7.49	7.53	7.46	7.38	7.29	7.23	7.28	7.26	7.27	7.30
Finish Grade	7.42	7.49	7.53	7.46	7.38	7.29	7.23	7.28	7.26	7.27	7.30
Ground Level	7.42	7.38	7.49	7.49	7.41	7.41	7.41	7.41	7.41	7.41	7.41
Station	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+200	0+220.001
Horizontal Alignment	R=∞ L=200.000m										
Superelevation	0.980 (2.00%)										

DRAWING No.	PR-08
	SHEET No.
TITLE :	PROFILE
	STREET No. 6, STREET No. 7
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	
THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	
SCALE H = 1/2000, V = 1/200	

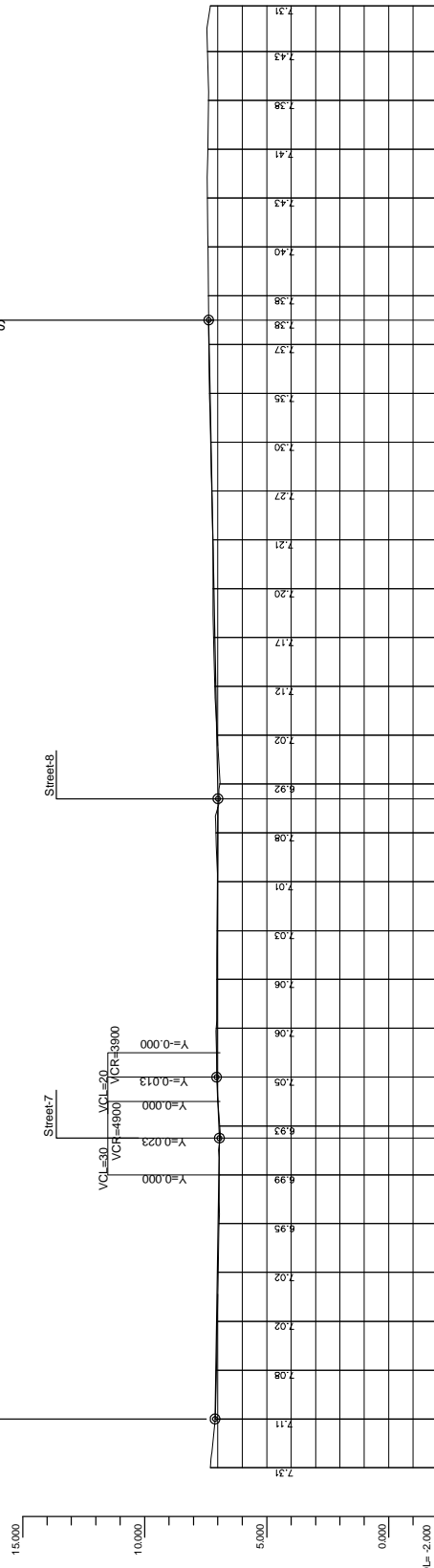


Vertical Alignment	7.77	7.54	7.35	7.24	7.16	7.10	7.04	7.04	6.99	6.93	6.88	6.96	
Finish Grade	7.77	7.54	7.35	7.24	7.16	7.10	7.04	7.04	6.99	6.93	6.88	6.96	
Ground Level	7.93	7.64	7.55	7.46	7.40	7.36	7.31	7.24	7.24	7.16	7.07	7.07	
Station	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+229.516
Horizontal Alignment	R <sub>min</sub> L=188.516m												
Superelevation	0.080 (2.03%)												

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : PROFILE STREET No.8	SCALE H = 1/2000, V = 1/200	Drawing No.	PR-09
					Sheet No.	XX

END POINT OF STREET - No.10  
STA. 0+470.000

BEGINNING POINT OF STREET - No.10  
STA. 0+20.000

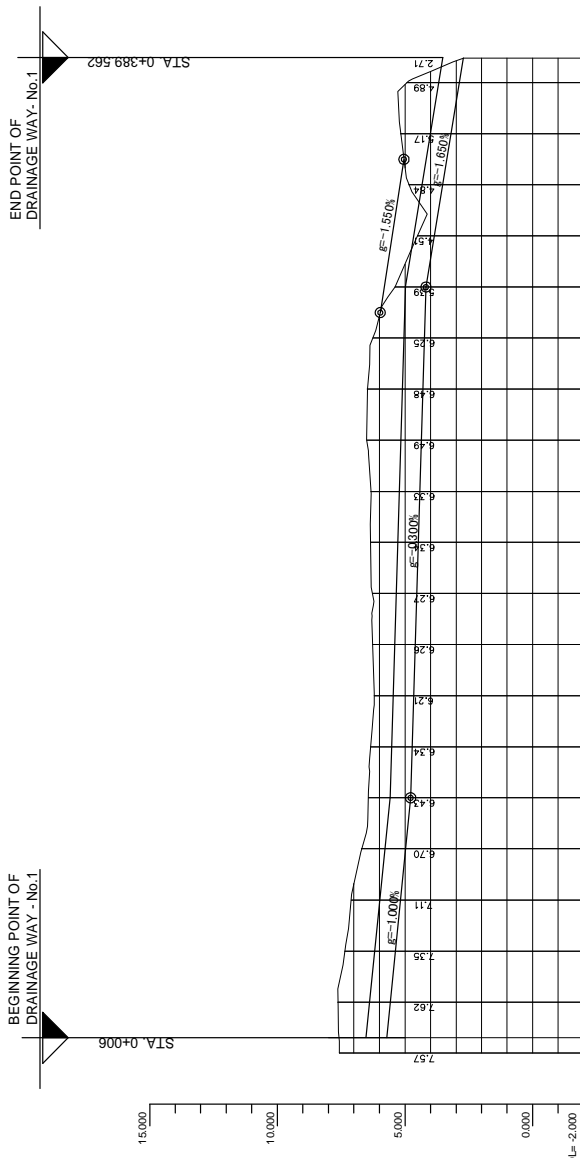


Vertical Alignment	Finish Grade	Ground Level	Station	Horizontal Alignment	Superelevation
7.31	7.11	7.08	0+000		
7.02	7.02	7.05	0+040		
7.02	7.02	7.02	0+080		
6.95	6.95	6.98	0+100		
6.99	6.94	6.95	0+120		
6.93	6.93	6.93	0+135		
6.93	6.93	6.93	0+140		
7.05	7.03	7.03	0+160		
7.06	7.06	7.04	0+180		
7.03	7.03	7.03	0+200		
7.02	7.02	7.02	0+220		
7.01	7.01	7.01	0+240		
7.08	7.08	7.00	0+260		
6.99	6.93	6.93	0+274		
6.92	7.00	7.00	0+280		
7.02	7.02	7.04	0+300		
7.12	7.12	7.08	0+320		
7.17	7.17	7.12	0+340		
7.16	7.16	7.19	0+360		
7.20	7.20	7.21	0+380		
7.25	7.25	7.23	0+400		
7.27	7.27	7.30	0+420		
7.31	7.31	7.33	0+440		
7.35	7.37	7.37	0+460		
7.37	7.37	7.38	0+480		
7.40	7.40	7.43	0+500		
7.43	7.43	7.43	0+520		
7.41	7.41	7.38	0+540		
7.38	7.38	7.43	0+560		
7.43	7.43	7.31	0+580		
7.31	7.31	7.31	0+598.810		

R=450.000m

0.060(2.0%)

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : PROFILE STREET No.10	SCALE H = 1/2000, V = 1/200	Drawing No.	PR-10
					Sheet No.	XX



Vertical Alignment	5.72		4.78		5.04																		
Finish Grade	5.72		4.78		5.04																		
Ground Level	5.72		4.78		5.04																		
Station	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+389.562		
Horizontal Alignment	7.57	7.62	7.35	7.11	6.70	6.43	6.34	6.21	6.26	6.27	6.34	6.33	6.49	6.48	6.25	5.97	5.39	4.18	3.85	3.52	5.17	4.89	2.71
Superelevation																							

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA

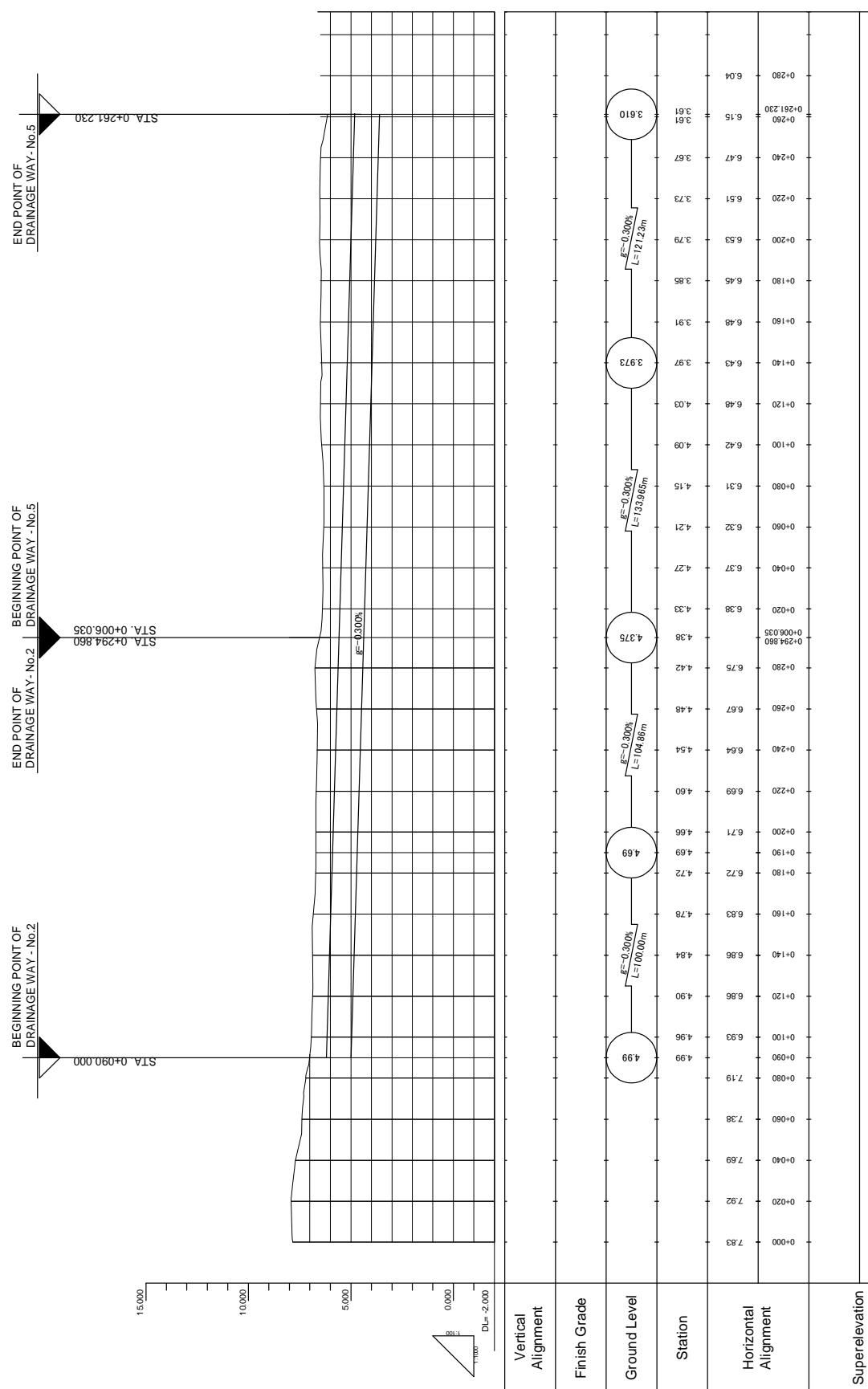
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL

TITLE : PROFILE DRAINAGE WAY No. 1

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

Drawing No. PR-11

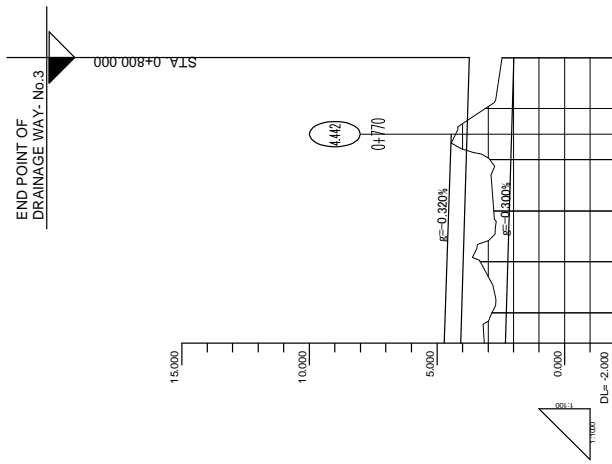
Sheet No. XX



Vertical Alignment	Vertical Alignment	
	Vertical Alignment	Vertical Alignment
Finish Grade	Finish Grade	
	Finish Grade	Finish Grade
Ground Level	Ground Level	
	Ground Level	Ground Level
Station	Station	
	Station	Station
Horizontal Alignment	Horizontal Alignment	
	Horizontal Alignment	Horizontal Alignment
Superelevation	Superelevation	
	Superelevation	Superelevation

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : PROFILE DRAINAGE WAY No. 2, No. 5	SCALE H = 1/2000, V = 1/200	Drawing No.	PR-12
					Sheet No.	XX





Vertical Alignment	4.44
Finish Grade	4.44, 4.48, 4.54, 4.61, 4.68
Ground Level	1.99
Station	0+700 (2.85), 0+720 (3.31), 0+740 (2.78), 0+760 (2.93), 0+770 (4.48), 0+780 (3.11), 0+800 (2.46)
Horizontal Alignment	2.85, 3.31, 2.78, 2.17, 2.11, 2.05, 1.99
Superelevation	

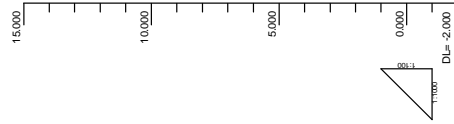
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : PROFILE DRAINAGE WAY No. 3 STA.0+700 - STA.0+800	SCALE H = 1/2000, V = 1/200	Drawing No.	PR-14
					Sheet No.	XX



BEGINNING POINT OF DRAINAGE WAY - No.6

STA. 0+006

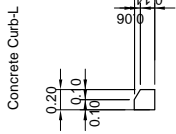
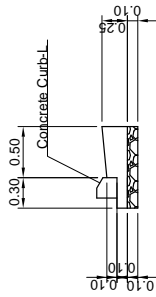
NR-5(2)



Superelevation	Horizontal Alignment	Station	Ground Level	Finish Grade	Vertical Alignment	TITLE :		Drawing No.
						MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	
	9.12	0+000	10.33	6.20		PROFILE DRAINAGE WAY No. 6	PR-15	
	9.36	0+006	9.03	6.20		STA. 0+000 - STA. 0+700	Sheet No. XX	
	9.03	0+100	8.83	6.20		SCALE		
	8.96	0+120	8.72	6.20		H = 1/2000, V = 1/200		
	8.81	0+140	8.62	6.20				
	9.47	0+160	8.51	6.20				
	9.71	0+180	8.41	6.20				
	9.97	0+200	8.30	6.20				
	9.92	0+220	8.20	6.20				
	9.61	0+240	8.09	6.20				
	9.25	0+260	7.99	6.20				
	8.86	0+280	7.89	6.20				
	7.89	0+280	7.89	6.20				
	8.45	0+300	7.58	6.20				
	8.24	0+320	7.27	6.20				
	8.24	0+320	7.27	6.20				
	7.16	0+327	7.16	6.20				
	7.54	0+340	6.81	6.20				
	8.24	0+350	6.18	6.20				
	7.06	0+360	6.15	6.20				
	6.90	0+380	6.09	6.20				
	6.84	0+400	6.03	6.20				
	6.87	0+420	5.97	6.20				
	6.76	0+440	5.91	6.20				
	6.65	0+460	5.85	6.20				
	6.43	0+480	5.79	6.20				
	7.14	0+500	5.73	6.20				
	6.25	0+504	5.71	6.20				
	6.25	0+520	5.52	6.20				
	6.10	0+540	5.28	6.20				
	5.75	0+560	5.05	6.20				
	5.64	0+580	4.96	6.20				
	5.61	0+600	4.88	6.20				
	5.50	0+620	4.80	6.20				
	5.44	0+640	4.72	6.20				
	5.36	0+660	4.64	6.20				
	5.26	0+680	4.56	6.20				
	5.76	0+698	4.47	6.20				

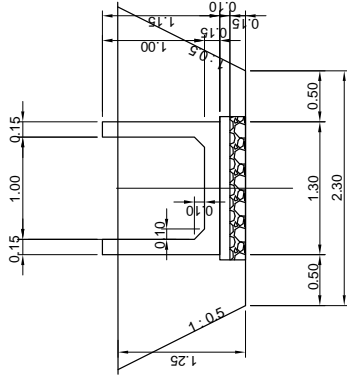


**CG(H200)**



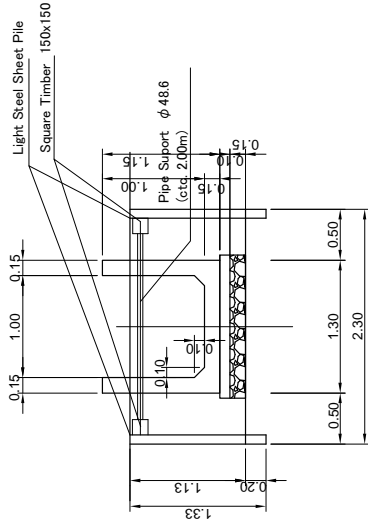
**Ww-U(R)1000x1000**

Avg. Excavation Depth  
1.25m

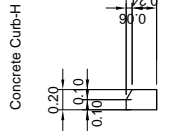
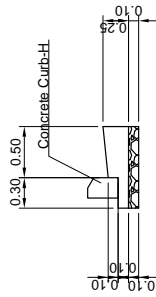


**Ww-U(R)S1000x1000**

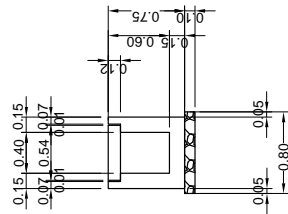
Avg. Excavation Depth  
1.33m



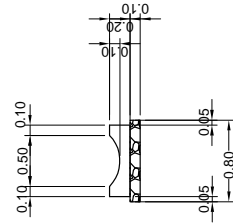
**CG(H300)**



**UD(C)-400x600**



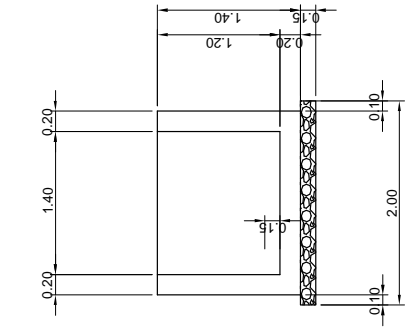
**RG-500x100**



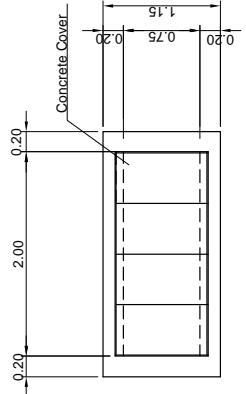
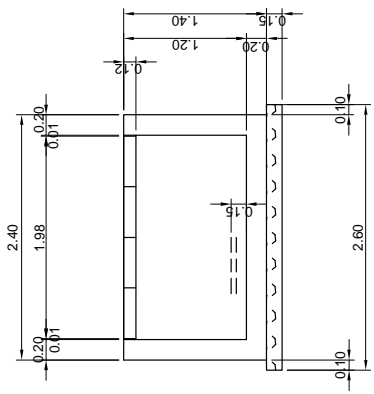
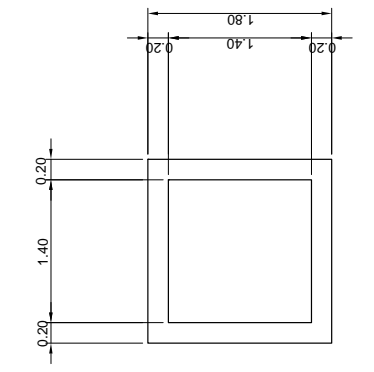
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : KERB STONE and DRAINAGE STRUCTURE (1) LINE DITCH	SCALE	Drawing No.	DR-1
				1/50	Sheet No.	xx



CB(C)1400x1400x1200

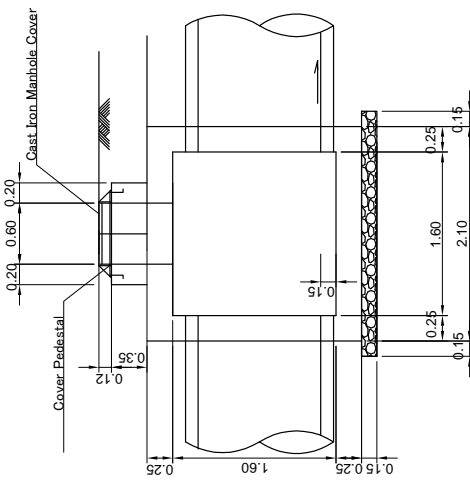
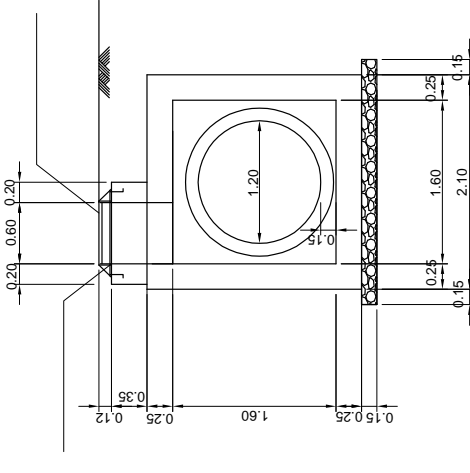
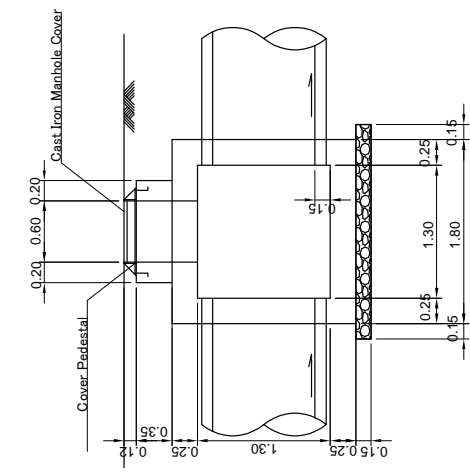
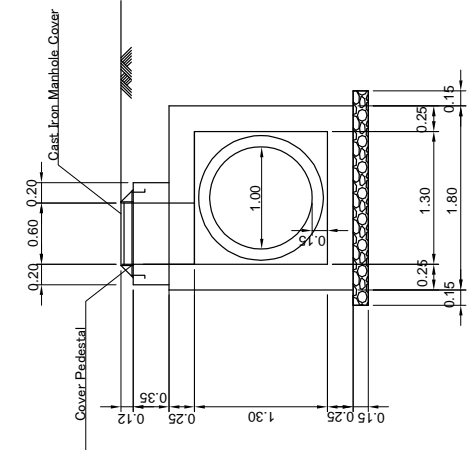


CB(C)2000x750x1200

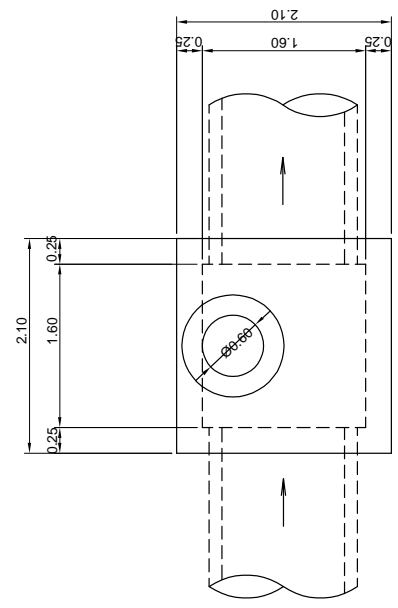
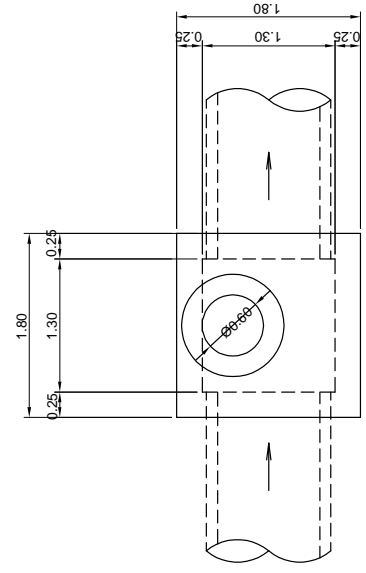


MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : DRAINAGE STRUCTURE (3) CATCH BASIN	SCALE	Drawing No.	DR-3
				1/50	Sheet No.	xx

MH(M)1300x1300x1900

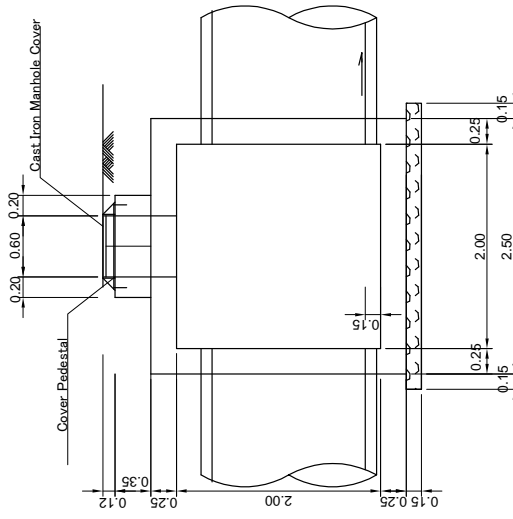
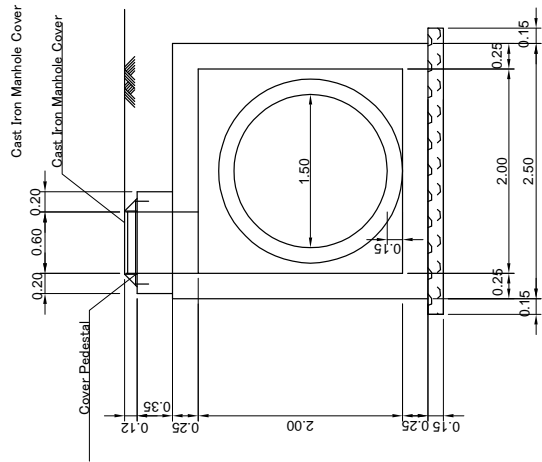


MH(M)1600x1600x2200

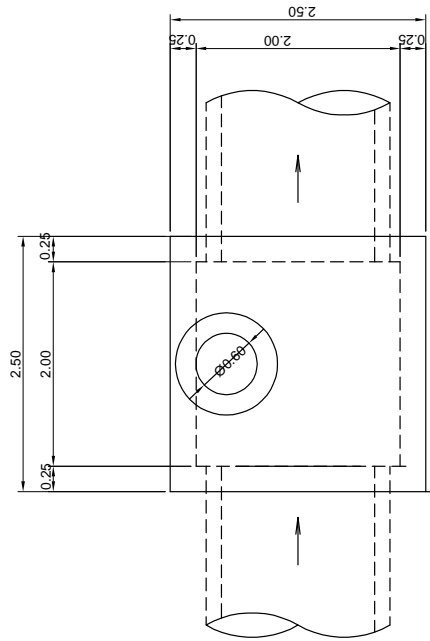
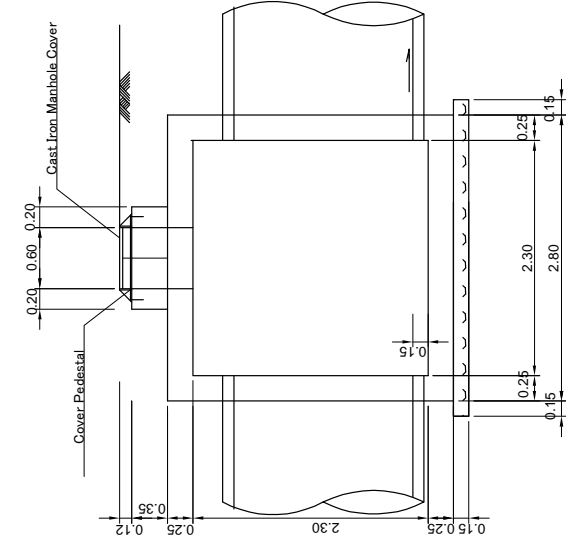
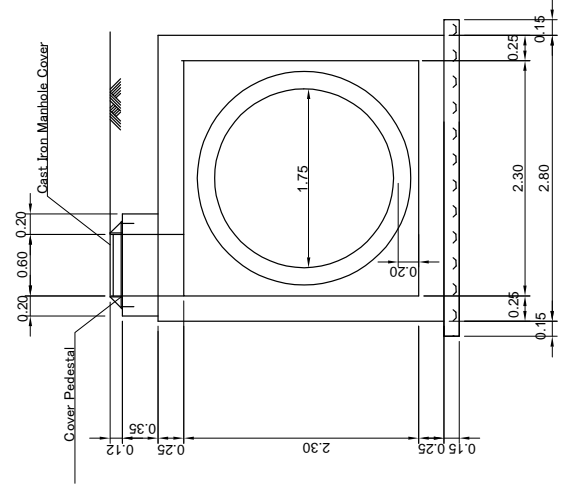
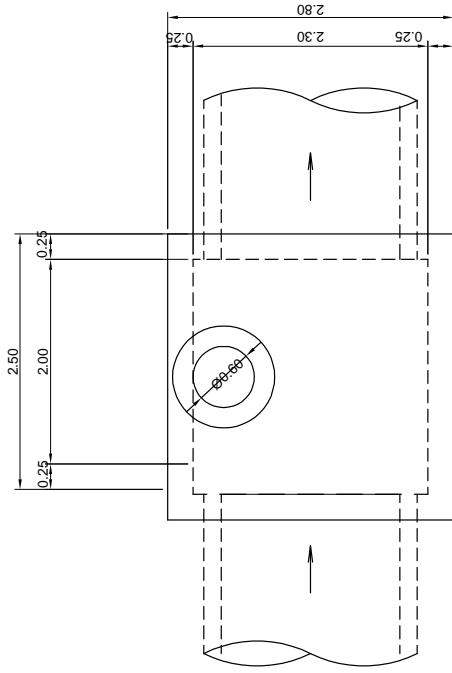


MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : DRAINAGE STRUCTURE (4) MANHOLE	SCALE	Drawing No.	DR-4
				1/50	Sheet No.	xx

MH(M)2000x2000x2600



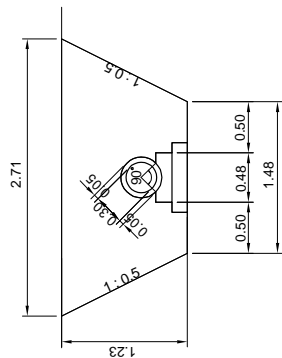
MH(M)2300x2300x2900



MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : DRAINAGE STRUCTURE (5) MANHOLE	SCALE	DR-5
				1/50	Sheet No. xx

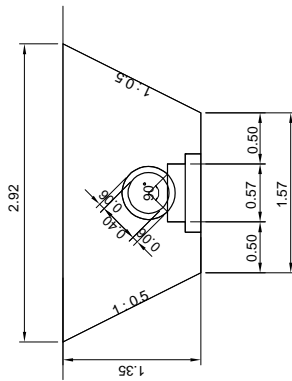
**CP-D300(90)**

Average Excavation Depth  
1.23m



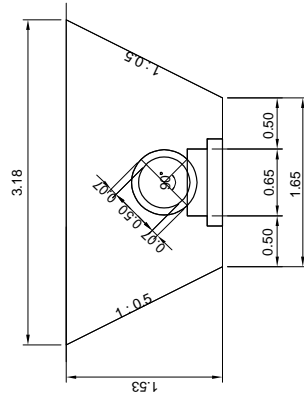
**CP-D400(90)**

Average Excavation Depth  
1.35m



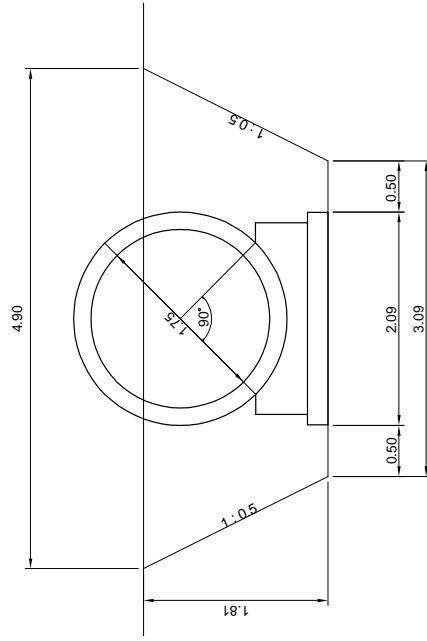
**CP-D500(90)**

Average Excavation Depth  
1.53m



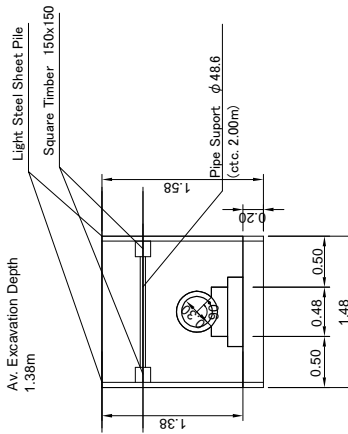
**CP-D1750(90)**

Average Excavation Depth  
1.81m



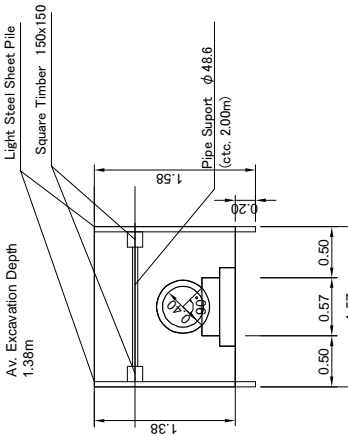
**CP-D300(90)S**

Average Excavation Depth  
1.38m



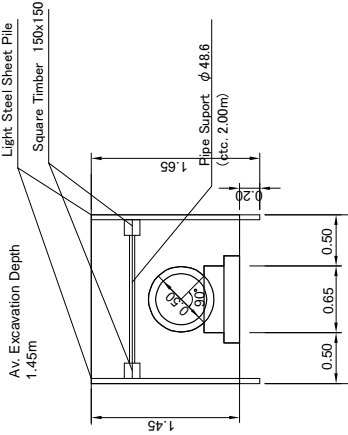
**CP-D400(90)S**

Average Excavation Depth  
1.38m



**CP-D500(90)S**

Average Excavation Depth  
1.45m

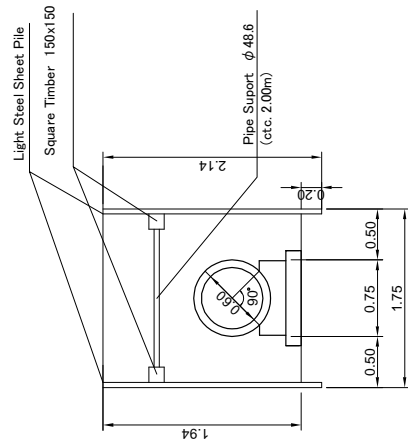


MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : DRAINAGE STRUCTURE (6) CONCRETE PIPE	SCALE	Drawing No.	DR-6
				1/50	Sheet No.	xx



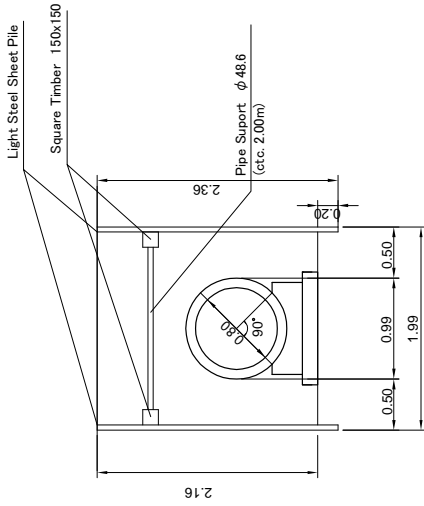
**CP-D600(90)S**

Average Excavation Depth  
1.94m



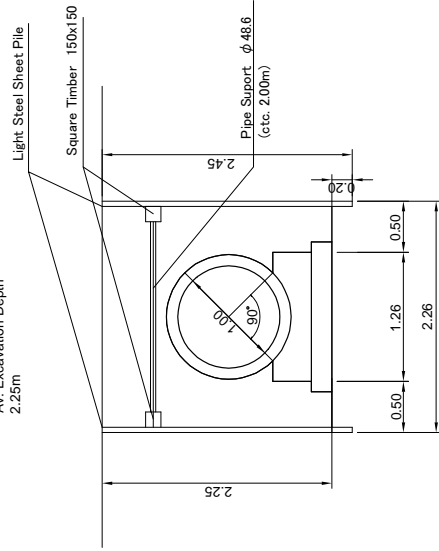
**CP-D800(90)S**

Average Excavation Depth  
2.16m



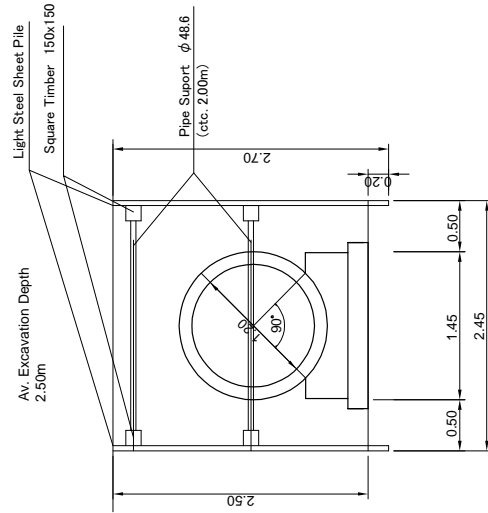
**CP-D1000(90)S**

Average Excavation Depth  
2.25m



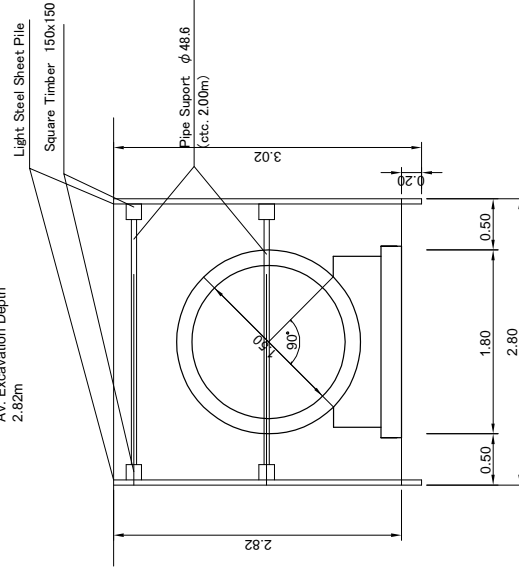
**CP-D1200(90)S**

Average Excavation Depth  
2.50m



**CP-D1500(90)S**

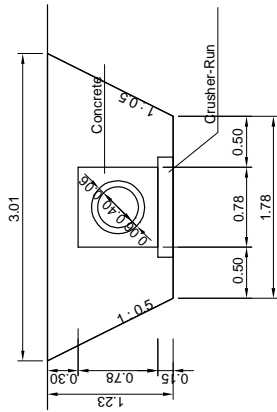
Average Excavation Depth  
2.82m



MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : DRAINAGE STRUCTURE (7) CONCRETE PIPE	SCALE 1/50	Drawing No.	DR-7
					Sheet No.	xx

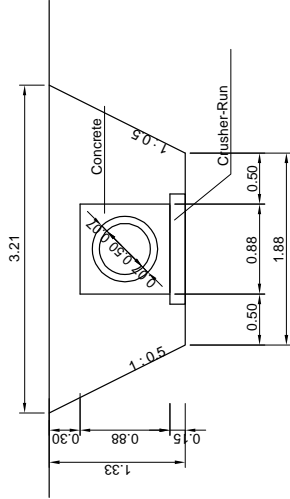
**CP-D400(360)**

Average Excavation Depth  
1.23m



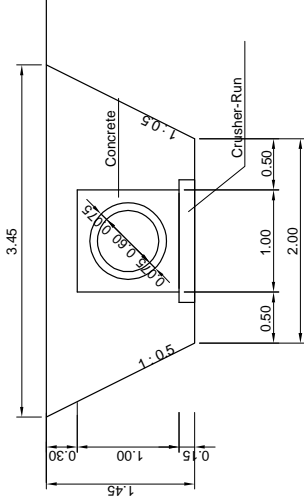
**CP-D500(360)**

Average Excavation Depth  
1.33m



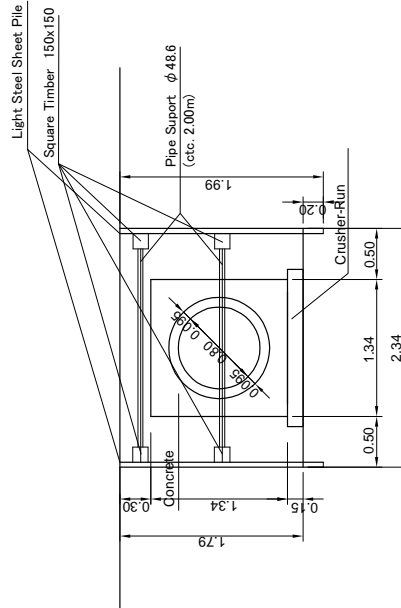
**CP-D600(360)**

Average Excavation Depth  
1.45m



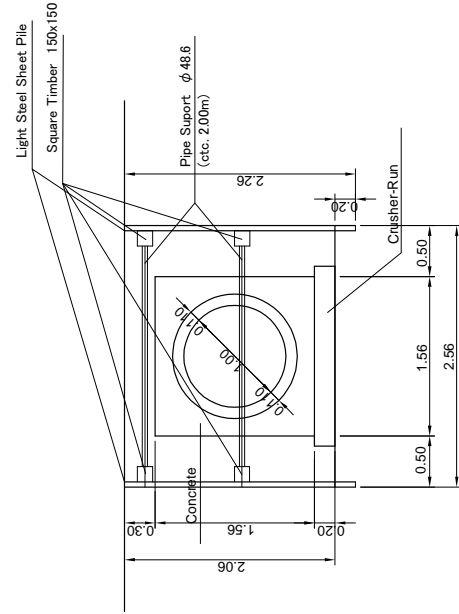
**CP-D800(360)S**

Average Excavation Depth  
1.79m



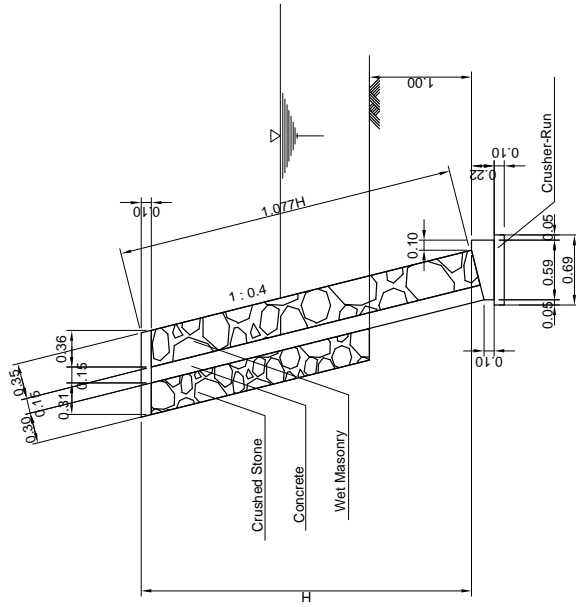
**CP-D1000(360)S**

Average Excavation Depth  
2.06m

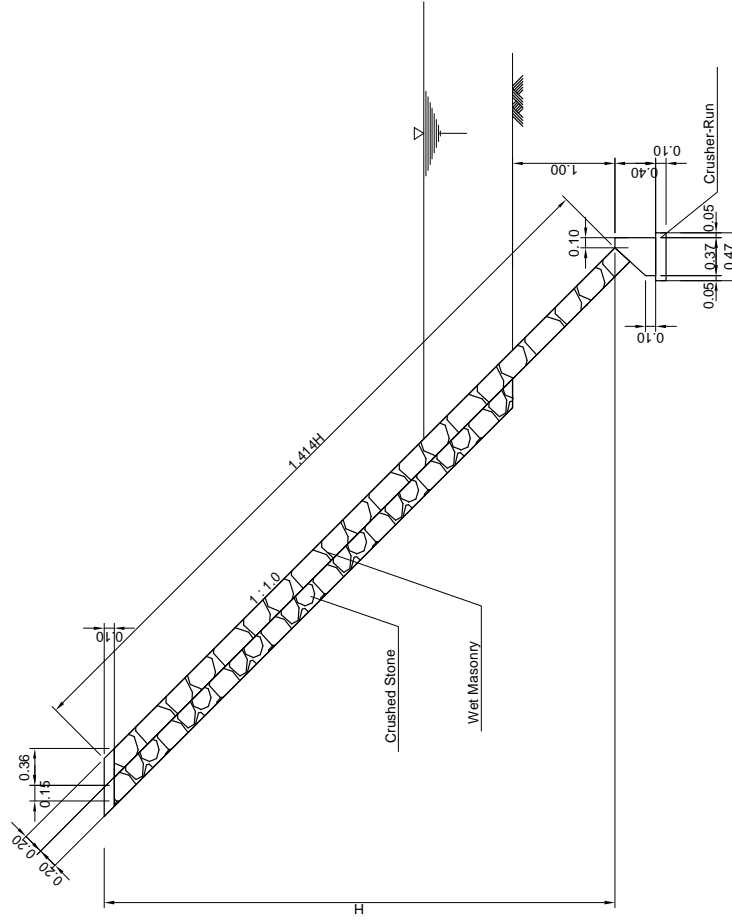


MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : DRAINAGE STRUCTURE (8) CONCRETE PIPE	SCALE	Drawing No.	DR-8
				1/50	Sheet No.	xx

SM350(H=3.50)



SM200(H=5.00)



MINISTRY OF  
PUBLIC WORKS AND TRANSPORT  
(MPWT)

THE PROJECT FOR FLOOD  
DISASTER REHABILITATION AND  
MITIGATION  
IN THE KINGDOM OF CAMBODIA

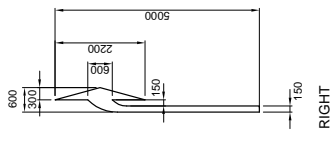
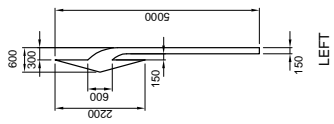
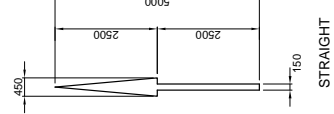
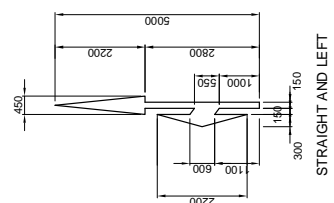
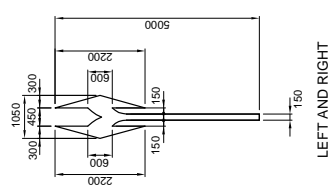
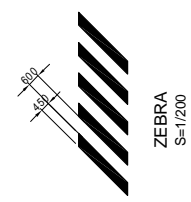
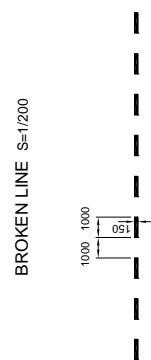
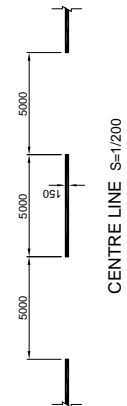
**JAPAN INTERNATIONAL COOPERATION AGENCY**  
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE :  
SLOPE PROTECTION

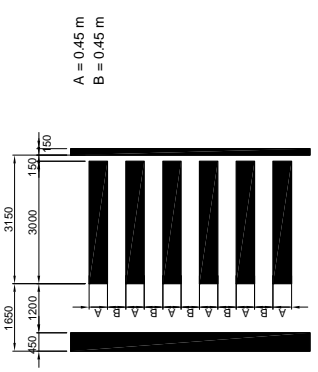
SCALE  
1/50

Drawing No.  
Sheet No.

SM-01  
xx



DIRECTIONAL ARROWS S=1/100



STOP LINE/CROSS WALK/BICYCLE LANE  
S=1/100

MINISTRY OF  
PUBLIC WORKS AND TRANSPORT  
(MPWT)

THE PROJECT FOR FLOOD  
DISASTER REHABILITATION AND  
MITIGATION  
IN THE KINGDOM OF CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE :  
ROAD MARKING

SCALE  
AS SHOWN

Drawing No.  
Sheet No.

RM-1  
106

---

# GENERAL

---

# INDEX OF DRAWINGS

DRAWING NO.	TITLE OF DRAWING	SHEET NO.	DRAWING NO.	TITLE OF DRAWING	SHEET NO.	DRAWING NO.	TITLE OF DRAWING	SHEET NO.
0-1	<b>0. GENERAL</b> INDEX OF DRAWINGS LOCATION MAP AND KEY MAP GENERAL NOTES		3-12	ABUTMENT WINGWALL REINF. DETAILS (ABUT. A1)		6-13	ABUTMENT WINGWALL REINF. DETAILS (ABUT. A2)	
0-2			3-13	ABUTMENT WINGWALL REINF. DETAILS (ABUT. A2)		6-14	APPROACH ROAD PROFILE	
0-3			3-14	APPROACH ROAD PROFILE		6-15	APPROACH ROAD CROSS SECTIONS	
			3-15	APPROACH ROAD CROSS SECTIONS			<b>7. BR-11 EK REAM BRIDGE</b>	
1-1	<b>1. BR-04 KBAL BOEUNG BRIDGE</b>		4-1	GENERAL SITE PLAN		7-1	GENERAL SITE PLAN	
1-2	GENERAL VIEW		4-2	GENERAL VIEW		7-2	GENERAL VIEW	
1-3	DECK SLAB REINFORCEMENT DETAILS (1/2)		4-3	DECK SLAB REINFORCEMENT DETAILS (1/2)		7-3	DECK SLAB REINFORCEMENT DETAILS (1/2)	
1-4	DECK SLAB REINFORCEMENT DETAILS (2/2)		4-4	DECK SLAB REINFORCEMENT DETAILS (2/2)		7-4	DECK SLAB REINFORCEMENT DETAILS (2/2)	
1-5	SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1)		4-5	SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1)		7-5	SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1)	
1-6	SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2)		4-6	SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2)		7-6	SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2)	
1-7	SUBSTRUCTURE STRUCTURAL DIMENSION (PIER P1 & P2)		4-7	SUBSTRUCTURE STRUCTURAL DIMENSION (PIER P1, P2, P3 & P4)		7-7	SUBSTRUCTURE STRUCTURAL DIMENSION (PIER P1 & P2)	
1-8	ABUTMENT A1 AND A2 REINFORCEMENT DETAILS (1/2)		4-8	ABUTMENT A1 AND A2 REINFORCEMENT DETAILS (1/2)		7-8	ABUTMENT A1 AND A2 REINFORCEMENT DETAILS (1/2)	
1-9	ABUTMENT A1 AND A2 REINFORCEMENT DETAILS (2/2)		4-9	ABUTMENT A1 AND A2 REINFORCEMENT DETAILS (2/2)		7-9	ABUTMENT A1 AND A2 REINFORCEMENT DETAILS (2/2)	
1-10	PIER P1 REINFORCEMENT DETAILS (1/2)		4-10	PIER P1 REINFORCEMENT DETAILS (1/2)		7-10	PIER P1 REINFORCEMENT DETAILS (1/2)	
1-11	PIER P1 REINFORCEMENT DETAILS (2/2)		4-11	PIER P1 REINFORCEMENT DETAILS (2/2)		7-11	PIER P1 REINFORCEMENT DETAILS (2/2)	
1-12	ABUTMENT WINGWALL REINF. DETAILS (ABUT. A1)		4-12	ABUTMENT WINGWALL REINF. DETAILS (ABUT. A1)		7-12	ABUTMENT WINGWALL REINF. DETAILS (ABUT. A1)	
1-13	ABUTMENT WINGWALL REINF. DETAILS (ABUT. A2)		4-13	ABUTMENT WINGWALL REINF. DETAILS (ABUT. A2)		7-13	ABUTMENT WINGWALL REINF. DETAILS (ABUT. A2)	
1-14	APPROACH ROAD PROFILE		4-14	APPROACH ROAD PROFILE		7-14	APPROACH ROAD PROFILE	
1-15	APPROACH ROAD CROSS SECTIONS		4-15	APPROACH ROAD CROSS SECTIONS		7-15	APPROACH ROAD CROSS SECTIONS	
2-1	<b>2. BR-5 SNATE BRIDGE</b>		5-1	GENERAL SITE PLAN		8-1	GENERAL SITE PLAN	
2-2	GENERAL VIEW		5-2	GENERAL VIEW		8-2	GENERAL VIEW	
2-3	DECK SLAB REINFORCEMENT DETAILS (1/2)		5-3	DECK SLAB REINFORCEMENT DETAILS (1/2)		8-3	DECK SLAB REINFORCEMENT DETAILS (1/2)	
2-4	DECK SLAB REINFORCEMENT DETAILS (2/2)		5-4	DECK SLAB REINFORCEMENT DETAILS (2/2)		8-4	DECK SLAB REINFORCEMENT DETAILS (2/2)	
2-5	SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1)		5-5	SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1)		8-5	SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1)	
2-6	SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2)		5-6	SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2)		8-6	SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2)	
2-7	SUBSTRUCTURE STRUCTURAL DIMENSION (PIER P1, P2 & P3)		5-7	SUBSTRUCTURE STRUCTURAL DIMENSION (PIER P1, P2 & P3)		8-7	SUBSTRUCTURE STRUCTURAL DIMENSION (PIERS P1, P2 & P3)	
2-8	ABUTMENT A1 AND A2 REINFORCEMENT DETAILS (1/2)		5-8	ABUTMENT A1 AND A2 REINFORCEMENT DETAILS (1/2)		8-8	ABUTMENT A1 AND A2 REINFORCEMENT DETAILS (1/2)	
2-9	ABUTMENT A1 AND A2 REINFORCEMENT DETAILS (2/2)		5-9	ABUTMENT A1 AND A2 REINFORCEMENT DETAILS (2/2)		8-9	ABUTMENT A1 AND A2 REINFORCEMENT DETAILS (2/2)	
2-10	PIER P1 REINFORCEMENT DETAILS (1/2)		5-10	PIER P1 REINFORCEMENT DETAILS (1/2)		8-10	PIER P1 REINFORCEMENT DETAILS (1/2)	
2-11	PIER P1 REINFORCEMENT DETAILS (2/2)		5-11	PIER P1 REINFORCEMENT DETAILS (2/2)		8-11	PIER P1 REINFORCEMENT DETAILS (2/2)	
2-12	ABUTMENT WINGWALL REINF. DETAILS (ABUT. A1)		5-12	ABUTMENT WINGWALL REINF. DETAILS (ABUT. A1)		8-12	ABUTMENT WINGWALL REINF. DETAILS (ABUT. A1)	
2-13	ABUTMENT WINGWALL REINF. DETAILS (ABUT. A2)		5-13	ABUTMENT WINGWALL REINF. DETAILS (ABUT. A2)		8-13	ABUTMENT WINGWALL REINF. DETAILS (ABUT. A2)	
2-14	APPROACH ROAD PROFILE		5-14	APPROACH ROAD PROFILE		8-14	APPROACH ROAD PROFILE	
2-15	APPROACH ROAD CROSS SECTIONS		5-15	APPROACH ROAD CROSS SECTIONS		8-15	APPROACH ROAD CROSS SECTIONS	
3-1	<b>3. BR-7 SAM PUTHOR II BRIDGE</b>		6-1	GENERAL SITE PLAN		9-1	TYPICAL RAILING, SIDEWALK & DRAIN DETAILS (1/2)	
3-2	GENERAL VIEW		6-2	GENERAL VIEW		9-2	TYPICAL RAILING, SIDEWALK & DRAIN DETAILS (2/2)	
3-3	DECK SLAB REINFORCEMENT DETAILS (1/2)		6-3	DECK SLAB REINFORCEMENT DETAILS (1/2)		9-3	TYPICAL RC PILES DETAILS	
3-4	DECK SLAB REINFORCEMENT DETAILS (2/2)		6-4	DECK SLAB REINFORCEMENT DETAILS (2/2)		9-4	TYPICAL APPROACH SLAB DETAILS	
3-5	SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1)		6-5	SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1)		9-5	RIPRAP SLOPE PROTECTION, STONE MASONRY DITCH AND GABION	
3-6	SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2)		6-6	SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2)		9-6	TYPICAL CROSS SECTION OF BRIDGE APPROACH ROAD	
3-7	SUBSTRUCTURE STRUCTURAL DIMENSION (PIER P1, P2 & P3)		6-7	SUBSTRUCTURE STRUCTURAL DIMENSION (PIER P1)		9-7	STANDARD REINFORCED CONCRETE PIPE CULVERT	
3-8	ABUTMENT A1 AND A2 REINFORCEMENT DETAILS (1/2)		6-8	ABUTMENT A1 AND A2 REINFORCEMENT DETAILS (1/2)				
3-9	ABUTMENT A1 AND A2 REINFORCEMENT DETAILS (2/2)		6-9	ABUTMENT A1 AND A2 REINFORCEMENT DETAILS (2/2)				
3-10	PIER P1 REINFORCEMENT DETAILS (1/2)		6-10	PIER P1 REINFORCEMENT DETAILS (1/2)				
3-11	PIER P1 REINFORCEMENT DETAILS (2/2)		6-11	PIER P1 REINFORCEMENT DETAILS (2/2)				
			6-12	ABUTMENT WINGWALL REINF. DETAILS (ABUT. A1)				

<b>MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)</b>	<b>THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA</b>	<b>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA &amp; ENGINEERS INTERNATIONAL</b>	<b>SCALE AS SHOWN</b>
<b>TITLE : INDEX OF DRAWINGS</b>			<b>Drawing No. 0-1</b>
			<b>Sheet No. 01</b>

# INDEX OF DRAWINGS

DRAWING NO.	TITLE OF DRAWING	SHEET NO.	DRAWING NO.	TITLE OF DRAWING	SHEET NO.	DRAWING NO.	TITLE OF DRAWING	SHEET NO.							
0-1	<b>0. GENERAL</b> INDEX OF DRAWINGS LOCATION MAP AND KEY MAP GENERAL NOTES						<b>9. DETAIL OF STANDARD STRUCTURES</b> TYPICAL RAILING AND SIDEWALK DETAILS TYPICAL DECK DRAIN DETAILS RC PILE DETAILS APPROACH SLAB DETAILS RIPRAP SLOPE PROTECTION, GABION MATTRESS AND GUIDE POST DETAILS TYPICAL CROSS SECTION OF BRIDGE APPROACH ROADS STEEL BEAM GUARDRAIL DETAILS INSCRIPTION BASE DETAILS								
0-2															
0-3															
1-1	<b>1. BR-04 KBAL BOEUNG BRIDGE</b> GENERAL SITE PLAN GENERAL VIEW SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1) SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2) SUBSTRUCTURE STRUCTURAL DIMENSION (PIER P1 & P2) APPROACH ROAD PROFILE APPROACH ROAD CROSS SECTIONS						<b>5. BR-9 TKOV I BRIDGE</b> GENERAL SITE PLAN GENERAL VIEW SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1) SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2) SUBSTRUCTURE STRUCTURAL DIMENSION (PIER P1, P2 & P3) APPROACH ROAD PROFILE APPROACH ROAD CROSS SECTIONS								
1-2															
1-3															
1-4															
1-5															
1-6															
1-7															
2-1	<b>2. BR-5 SNATE BRIDGE</b> GENERAL SITE PLAN GENERAL VIEW SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1) SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2) SUBSTRUCTURE STRUCTURAL DIMENSION (PIER P1, P2 & P3) APPROACH ROAD PROFILE APPROACH ROAD CROSS SECTIONS						<b>6. CLV-1 TKOV II BRIDGE</b> GENERAL SITE PLAN GENERAL VIEW SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1) SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2) SUBSTRUCTURE STRUCTURAL DIMENSION (PIER P1) APPROACH ROAD PROFILE APPROACH ROAD CROSS SECTIONS								
2-2															
2-3															
2-4															
2-5															
2-6															
2-7															
3-1	<b>3. BR-7 SAM PUTHOR II BRIDGE</b> GENERAL SITE PLAN GENERAL VIEW SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1) SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2) SUBSTRUCTURE STRUCTURAL DIMENSION (PIER P1, P2 & P3) APPROACH ROAD PROFILE APPROACH ROAD CROSS SECTIONS							<b>7. BR-11 EK REAM BRIDGE</b> GENERAL SITE PLAN GENERAL VIEW SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1) SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2) SUBSTRUCTURE STRUCTURAL DIMENSION (PIER P1 & P2) APPROACH ROAD PROFILE APPROACH ROAD CROSS SECTIONS							
3-2															
3-3															
3-4															
3-5															
3-6															
3-7															
4-1	<b>4. BR-8 WEBON BRIDGE</b> GENERAL SITE PLAN GENERAL VIEW SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1) SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2) SUBSTRUCTURE STRUCTURAL DIMENSION (PIER P1, P2, P3 & P4) APPROACH ROAD PROFILE APPROACH ROAD CROSS SECTIONS							<b>8. CLV-2 ROM LECH BRIDGE</b> GENERAL SITE PLAN GENERAL VIEW SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1) SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2) SUBSTRUCTURE STRUCTURAL DIMENSION (PIERS P1, P2 & P3) APPROACH ROAD PROFILE APPROACH ROAD CROSS SECTIONS							
4-2															
4-3															
4-4															
4-5															
4-6															
4-7															

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	<b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : INDEX OF DRAWINGS	SCALE AS SHOWN	Drawing No. 0-1
					Sheet No. 02

# GENERAL NOTES FOR BRIDGES

## A. DESIGN CRITERIA

### 1. CODES AND SPECIFICATIONS

THE DESIGN STANDARDS FOR THE STRUCTURES ARE :

- STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), 17TH EDITION 2002.

### 2. UNIT WT. OF MATERIALS

	UNIT WEIGHT
A. REINFORCED CONCRETE	25.00 kN/m <sup>3</sup>
B. PLAIN CONCRETE	24.00 kN/m <sup>3</sup>
C. ASPHALT WEARING COARSE	22.00 kN/m <sup>3</sup>
D. STEEL	77.00 kN/m <sup>3</sup>
E. COMPACTED SAND, EARTH OR GRAVEL	19.00 kN/m <sup>3</sup>
F. SATURATED EARTH OR WATER	9.81 kN/m <sup>3</sup>
G. OTHERS	AS INDICATED

## B. MATERIALS

### 1. CONCRETE

- a). UNLESS OTHERWISE INDICATED ON PLANS, THE CONCRETE CLASS / 28-DAY COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS:

STRUCTURAL MEMBER	CLASS	28-DAY COMPRESSIVE STRENGTH MPa	MAX. AGG. SIZE	SLUMP
FLAT SLAB	A	32	25	8-12
APPROACH SLAB	C	32	15	8-12
SIDEWALKS, RAILING POST	D	18	25	8-12
CONCRETE BASE LEAN CONCRETE	E	32	20	8-12

### CONCRETE COVER OF REINFORCEMENT

MINIMUM CLEAR COVER FOR REINFORCEMENT	
SLAB	50 mm
ABUTMENT & PIER	75 mm
RC PILES	50 mm
RAILINGS, POST & SIDEWALK	40 mm

2. REINFORCING STEEL  
 a) ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO GR. 60, MINIMUM YIELD POINT 420 MPa.

BAR SIZE	BAR AREA mm <sup>2</sup>	WT. (Kg/m)
10mm	78.5	0.617
12mm	113.1	0.888
16mm	201.1	1.58
19mm	284.5	2.276
22mm	380.1	2.984
25mm	490.9	3.853
29mm	662.9	5.185
32mm	804.2	6.313

- b) UNLESS OTHERWISE INDICATED IN THE PLANS, THE MINIMUM DEVELOPMENT LENGTH,

BAR SIZE	MIN DEVELOPMENT LENGTH COMP.	MIN LAP SPlice TENSION
10mm	200mm	300mm
12mm	250mm	325mm
16mm	300mm	350mm
19mm	350mm	375mm
22mm	400mm	400mm
25mm	450mm	425mm
29mm	500mm	450mm
32mm	550mm	475mm

### C. CONSTRUCTION

ALL WORKS SHALL COMPLY WITH THE TECHNICAL SPECIFICATIONS OF THIS CONTRACT.

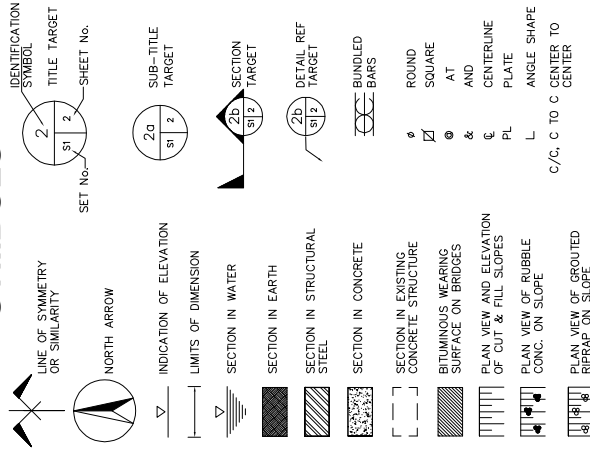
### 1. DIMENSIONS

- 1.1 SECTION, DIMENSIONS AND DISTANCES SHALL NOT BE SCALED OR CONSIDERED AS DIMENSIONS UNLESS OTHERWISE SPECIFIED.  
 1.2 ALL DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.  
 1.3 ALL STATIONING ARE IN KILOMETER PLUS METER AND ELEVATION IN METER.

### 2. REINFORCED CONCRETE

- a. ALL EXPOSED EDGES SHALL BE CHAMFERED 25mm EXCEPT RAILINGS WHICH SHALL BE CHAMFERED AND FILLETED 15mm.  
 b. FOR CONCRETE DEPOSITED AGAINST THE GROUND, LEAN CONCRETE WITH A MINIMUM THICKNESS OF 50mm SHALL LAID FIRST BEFORE INSTALLING THE REINFORCEMENT. THIS LEAN CONCRETE SHALL NOT BE CONSIDERED IN MEASURING THE STRUCTURAL DEPTH OF CONCRETE SECTION.  
 c. BAR BENDING, SPLICING AND PLACING  
 (1) THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER/CONSULTANT FOR APPROVAL OF SHOP DRAWINGS INDICATING THE BENDING, CUTTING, SPLICING AND INSTALLATION OF ALL REINFORCING BARS.  
 (2) BARS SHALL BE BEND COLD. BARS PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT UNLESS PERMITTED BY THE ENGINEER/CONSULTANT.  
 (3) BAR SPLICING NOT INDICATED ON DRAWINGS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.  
 (4) NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION SHALL

# SYMBOLS



# ABBREVIATIONS

ABT	ABOUT	KILOPASCAL
BEG	BEGINNING	METER
BOTT	BOTTLE	MILLIMETER
BR	BRIDGE	METER
BRG	BEARING	MINIMUM
CLR	CLEAR	MIDDLE ORIGINATE
cm	CENTIMETER	MEGAPASCAL
CONC	CONCRETE	NEWTON
CONC	CONCRETE	NEWTON
CONST	CONSTRUCTION	NUMBER
CTR	CENTER	ON CENTER
DET	DETAIL	PREPOLYMERIZED EXPANSION JOINT
DIAM	DIAMETER	POLYVINYL CHLORIDE
DIAPHR	DIAPHRAGM	POINT OF VERT. INTERSECTION
DWG	DRAWING	QUANTITY
EA	EACH FACE	RADIUS
ELEV	ELEVATION	REINFORCED CONCRETE
ENGR	ENGINEER	REINFORCEMENT
EQ	EQUAL	SIDEWALK
EW	EACHWAY	SPIRAL
EXP	EXPANSION	SPACES
EXT	EXISTING	STANDARD
EXIST	EXISTING	STIRRUP
FF	FAIR FACE	STR
FTG	FOOTING	STATION
GEN	GENERAL	STRUCTURE
HOR	HORIZONTAL	THICKNESS
HWT	HIGH WATER	TYPICAL
INT	INTERIOR	VERTICAL
INTERM	INTERMEDIATE	VARIABLE
JOINT	JOINT	VOLUME
L	LENGTH	WIDTH
LG	LONG	WITH
KG	KILOGRAM	&
KN	KILONEWTON	

## SCALE

AS SHOWN

## Drawing No.

0-2

## Sheet No.

## TITLE :

**JAPAN INTERNATIONAL COOPERATION AGENCY**  
 KATAHIRA & ENGINEERS INTERNATIONAL

## THE PROJECT FOR FLOOD

DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA

## MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

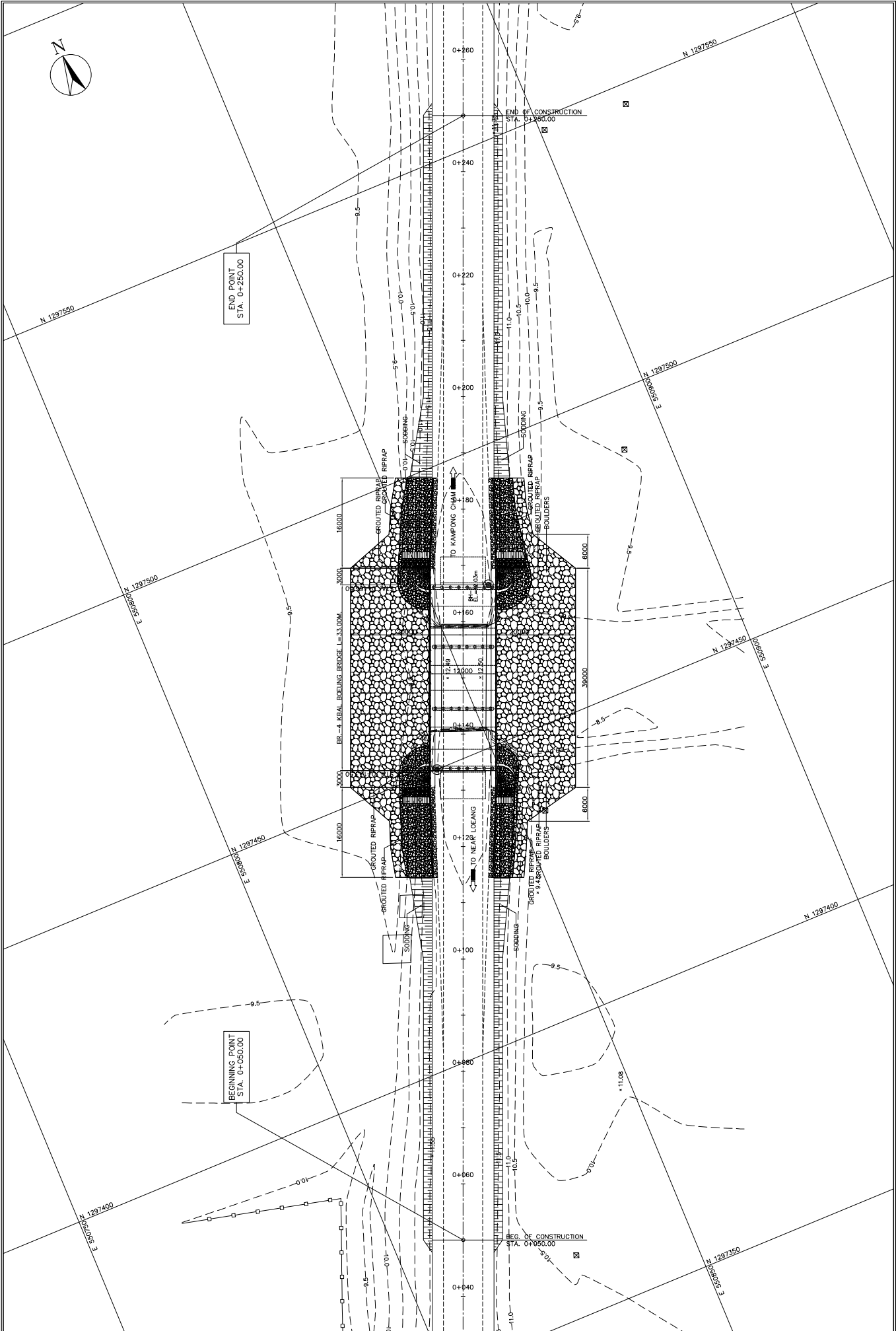
## GENERAL NOTES



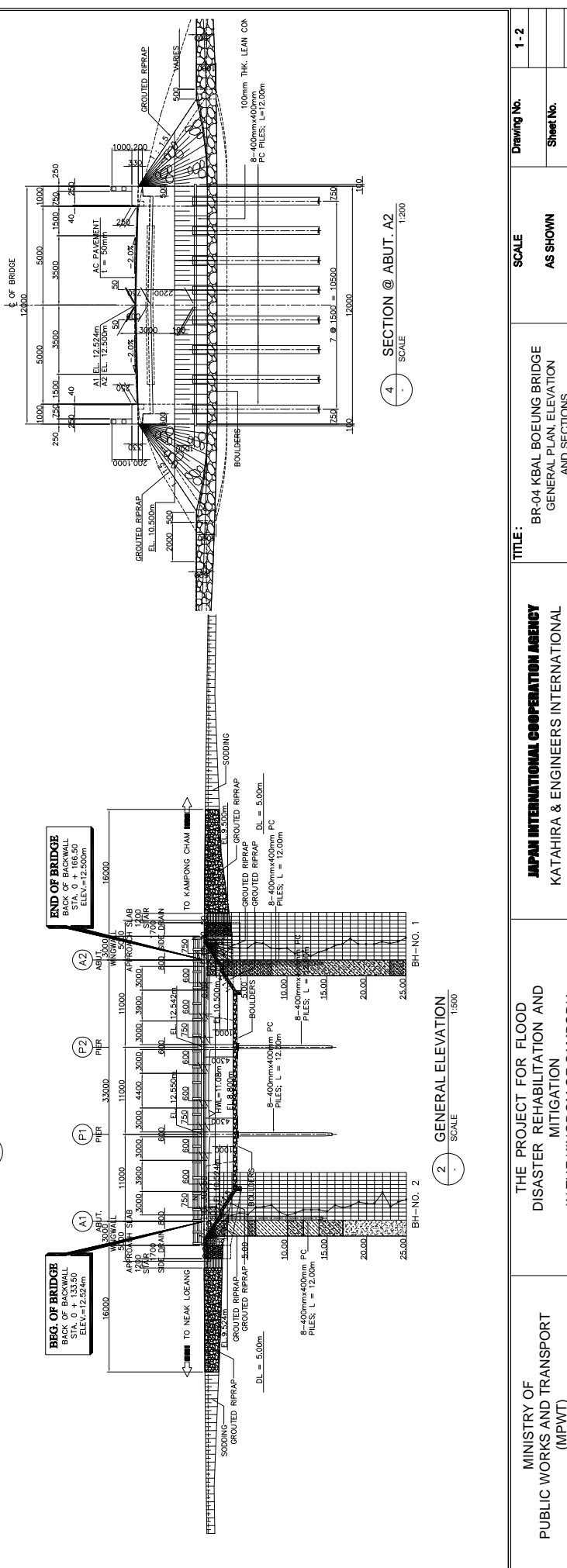
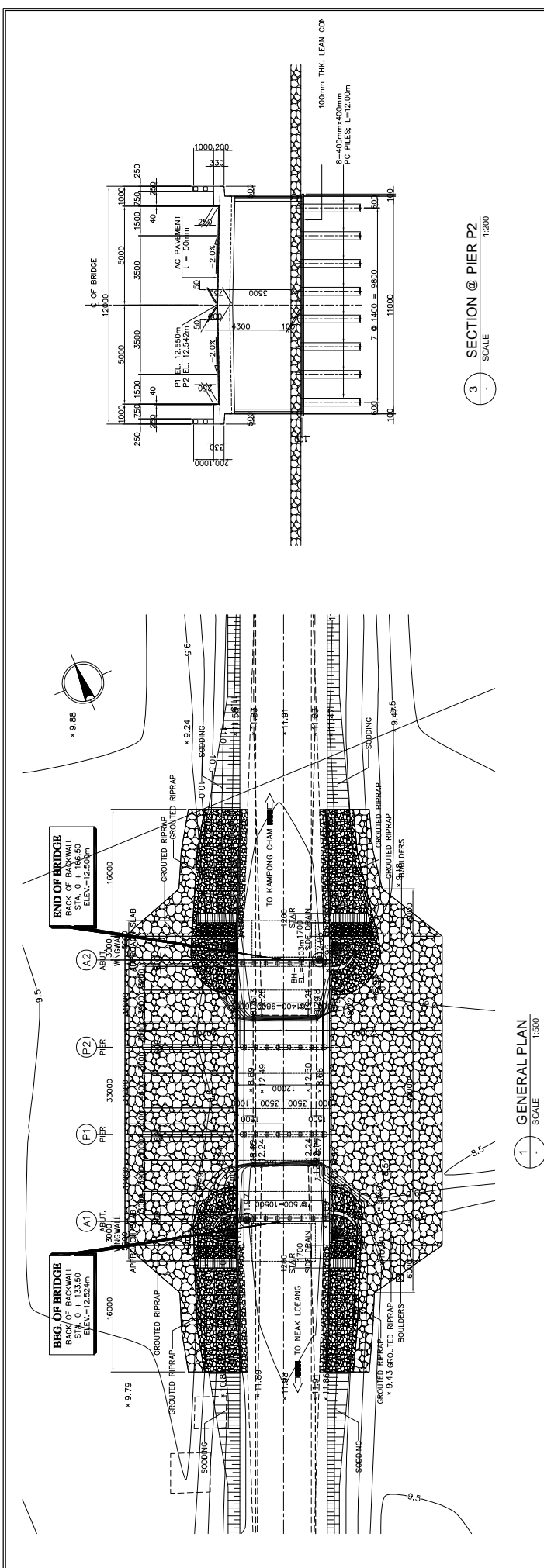
---

# BR-4 KBAL BOEUNG BRIDGE

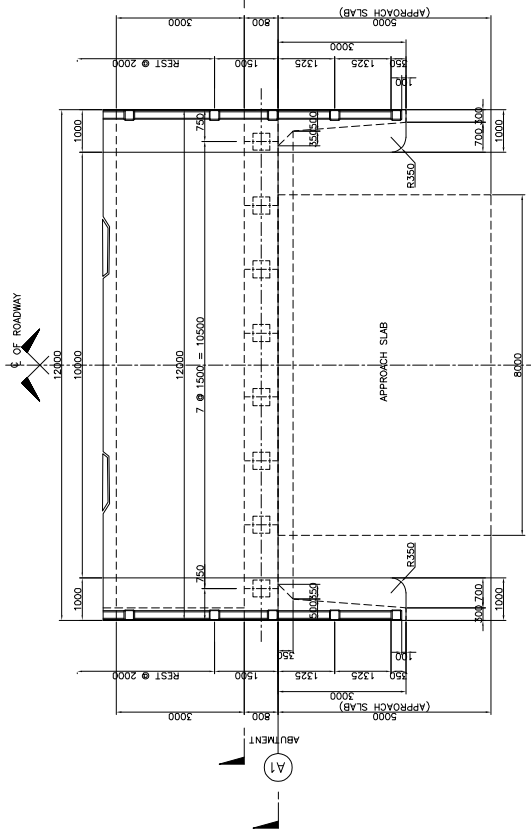
---



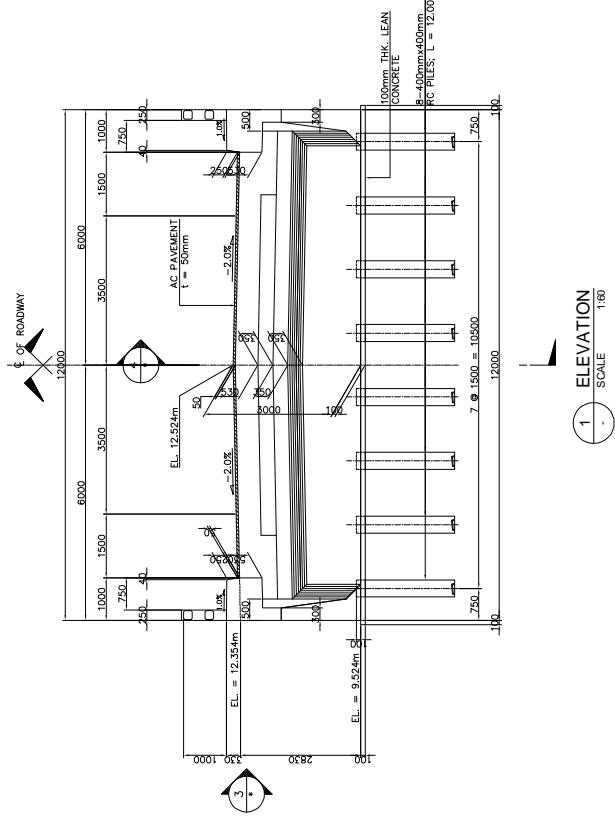
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE: BR-04 KBAL BOEUNG BRIDGE GENERAL SITE PLAN	SCALE	1:600	Drawing No.	1 - 1
				Sheet No.			



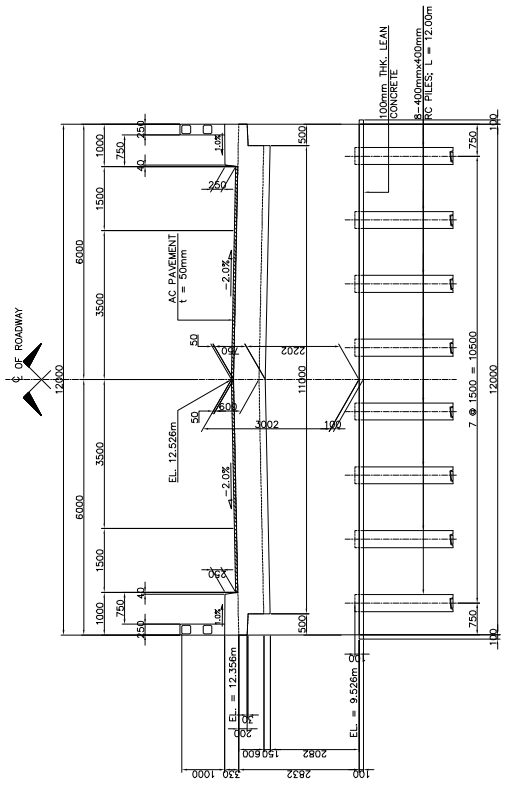
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	BR-04 KBAL BOEUNG BRIDGE GENERAL PLAN, ELEVATION AND SECTIONS	SCALE	AS SHOWN	Drawing No.	1-2
			Sheet No.					



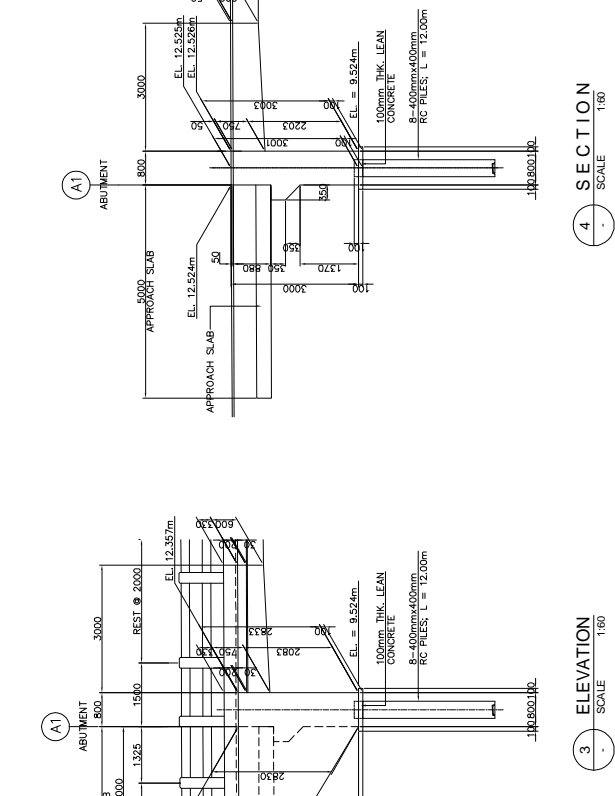
2 PLAN SCALE 1/60



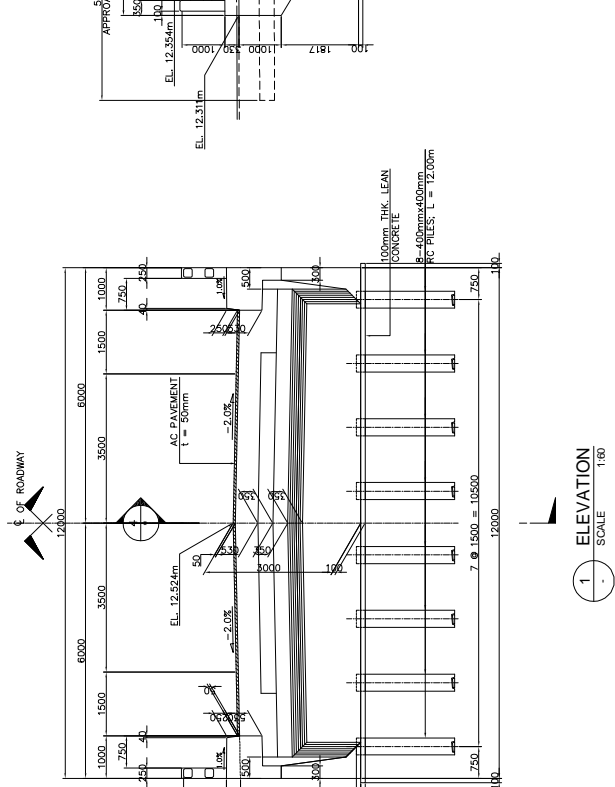
1 ELEVATION SCALE 1/60



5 ELEVATION SCALE 1/60

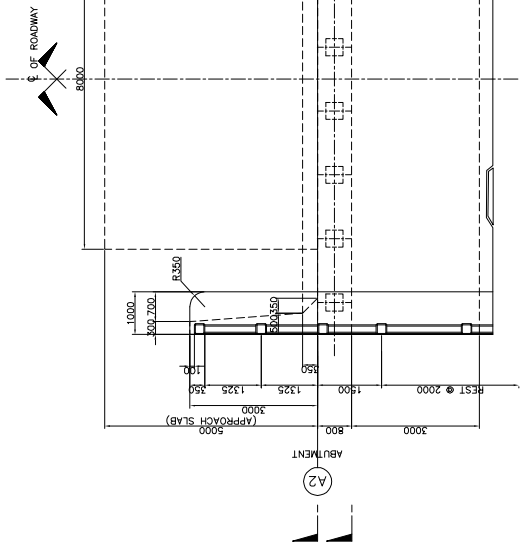


3 ELEVATION SCALE 1/60

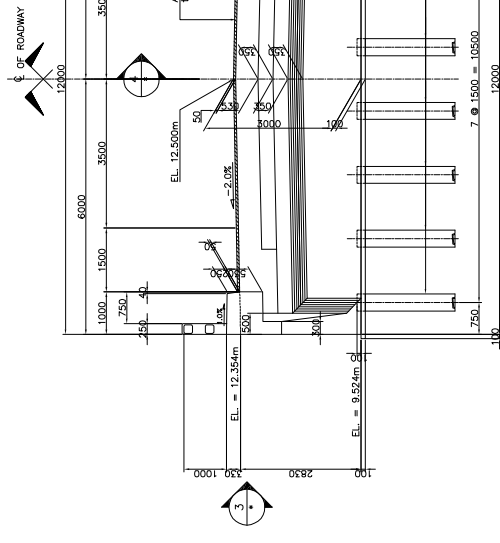


4 SECTION SCALE 1/60

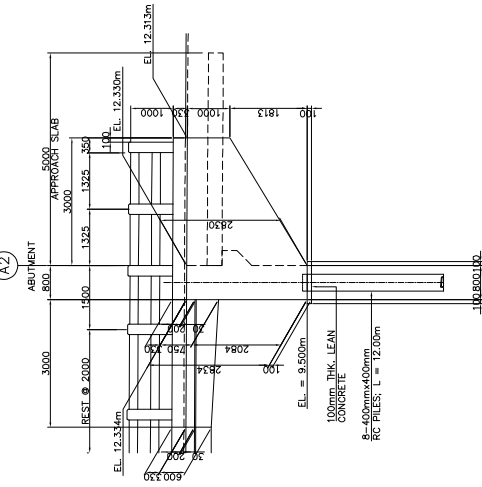
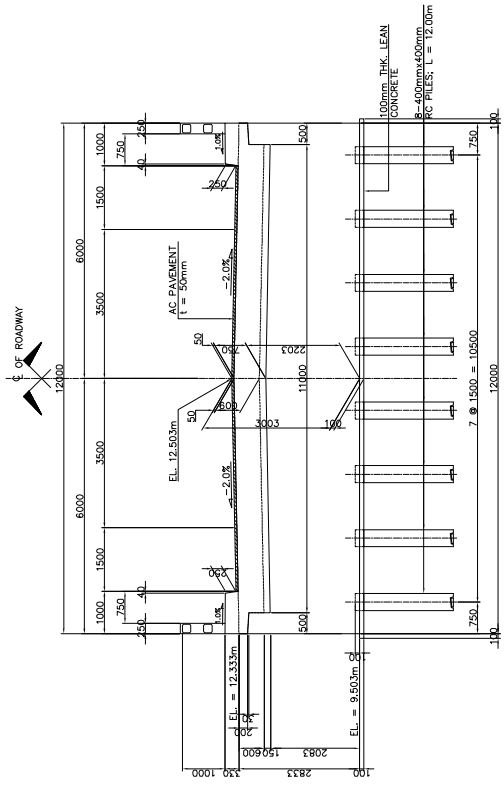
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE: BR-4 KABAL BOEUNG BRIDGE SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A1)	SCALE	AS SHOWN	Drawing No.	1-3
				Sheet No.			



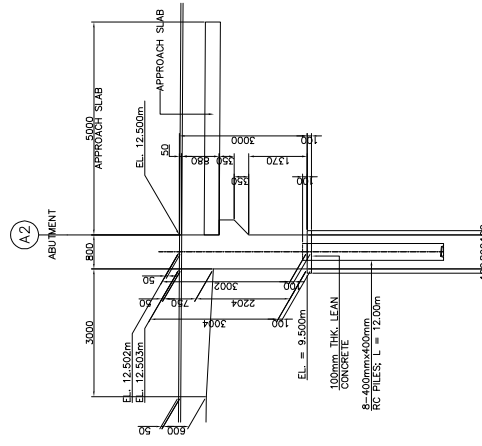
2 PLAN SCALE 1:180



1 ELEVATION SCALE 1:180



3 ELEVATION SCALE 1:180



4 SECTION SCALE 1:180

MINISTRY OF  
PUBLIC WORKS AND TRANSPORT  
(MPWT)

THE PROJECT FOR FLOOD  
DISASTER REHABILITATION AND  
MITIGATION  
IN THE KINGDOM OF CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

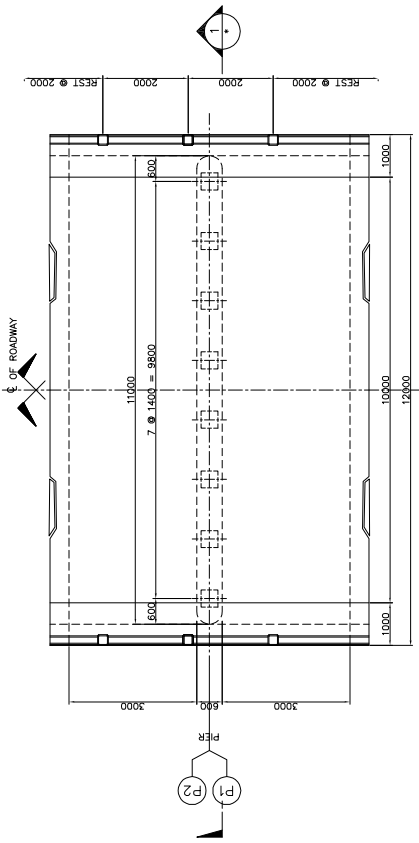
TITLE:  
BR-04 KABAL BOEUNG BRIDGE  
SUBSTRUCTURE STRUCTURAL DIMENSION  
(ABUT. A2)

SCALE  
AS SHOWN

Drawing No.

Sheet No.

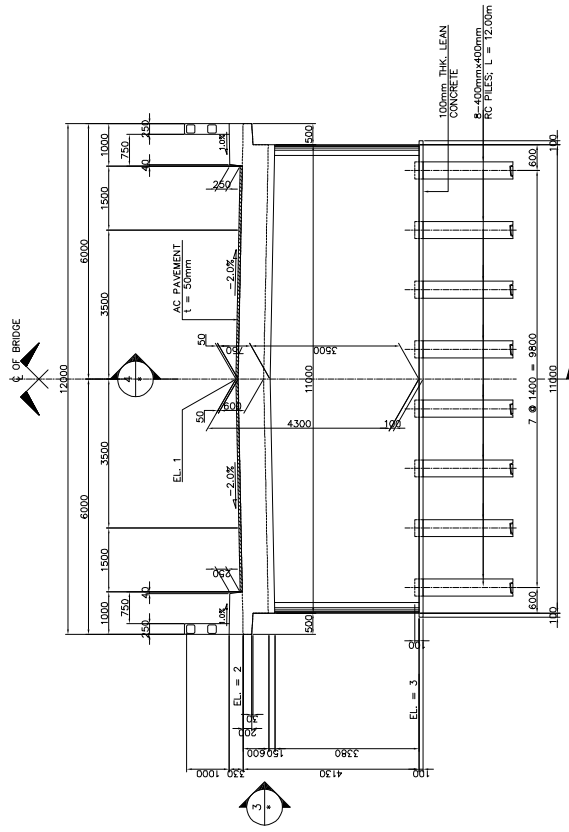
1-4



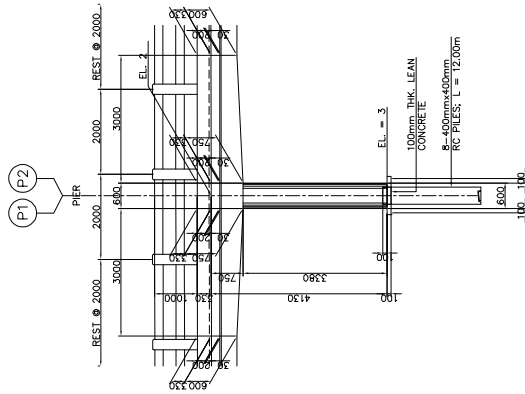
**TABLE OF ELEVATIONS**

LOCATION	EL. 1	EL. 2	EL. 3
PIER 1	12.850m	12.380m	8.250m
PIER 2	12.542m	12.372m	8.242m

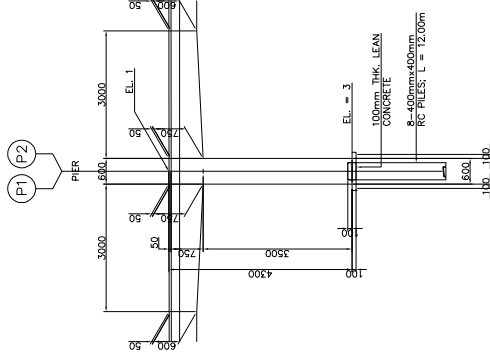
2 PLAN  
SCALE 1:80



1 ELEVATION  
SCALE 1:80



3 ELEVATION  
SCALE 1:80



4 SECTION  
SCALE 1:80

MINISTRY OF  
PUBLIC WORKS AND TRANSPORT  
(MPWT)

THE PROJECT FOR FLOOD  
DISASTER REHABILITATION AND  
MITIGATION  
IN THE KINGDOM OF CAMBODIA

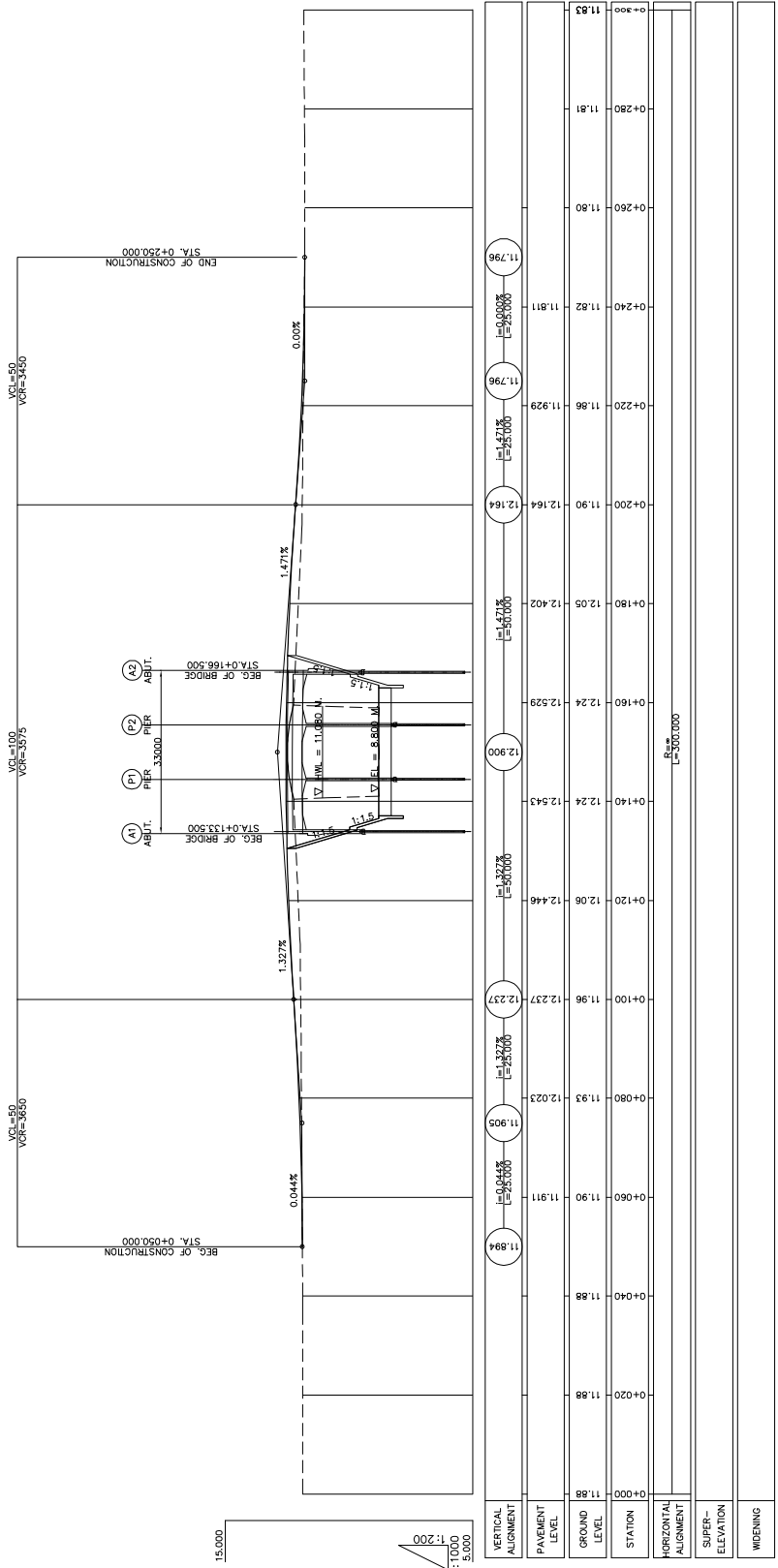
**JAPAN INTERNATIONAL COOPERATION AGENCY**  
KATAHIRA & ENGINEERS INTERNATIONAL

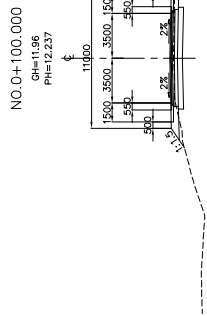
**TITLE:**  
BR-04 KABAL BOEUNG BRIDGE  
SUBSTRUCTURE STRUCTURAL DIMENSION  
(PIER P1 & P2)

**SCALE**  
AS SHOWN

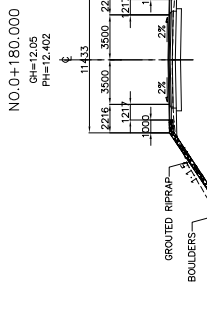
**Drawing No.**  
**Sheet No.**

1-5

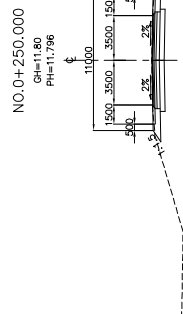




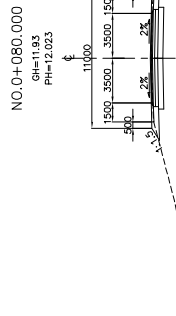
DL=5.00



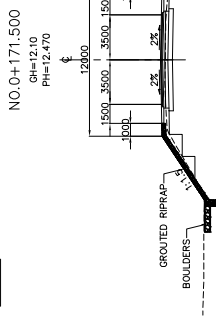
DL=5.00



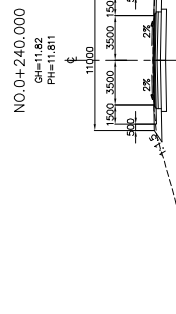
DL=5.00



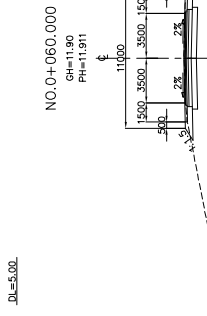
DL=5.00



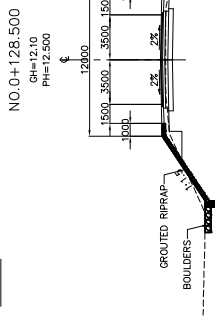
DL=5.00



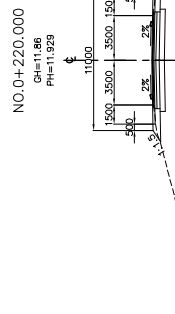
DL=5.00



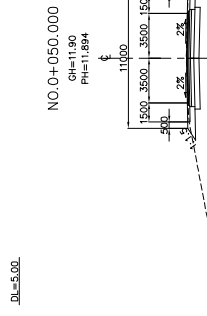
DL=5.00



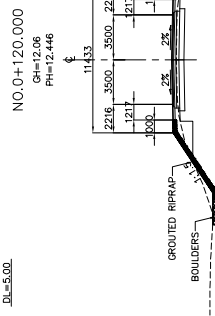
DL=5.00



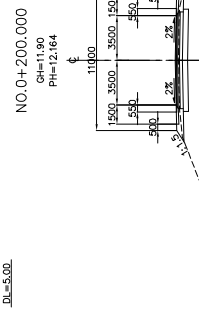
DL=5.00



DL=5.00



DL=5.00



DL=5.00

DL=5.00

DL=5.00

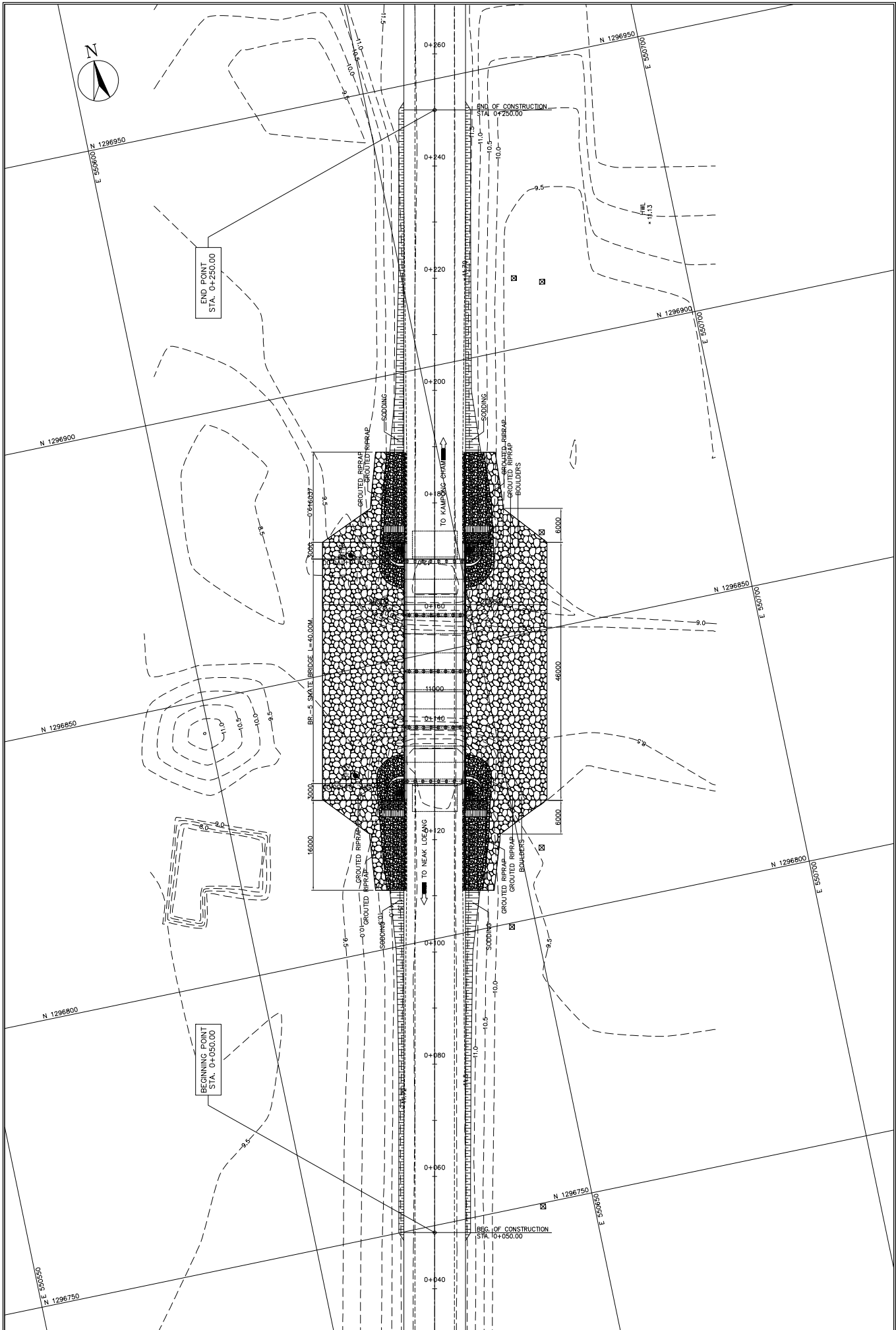
MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE: BR-04 KBAL BOEUNG BRIDGE APPROACH ROAD CROSS SECTIONS	SCALE	Drawing No.	1 - 7
				1 : 400		



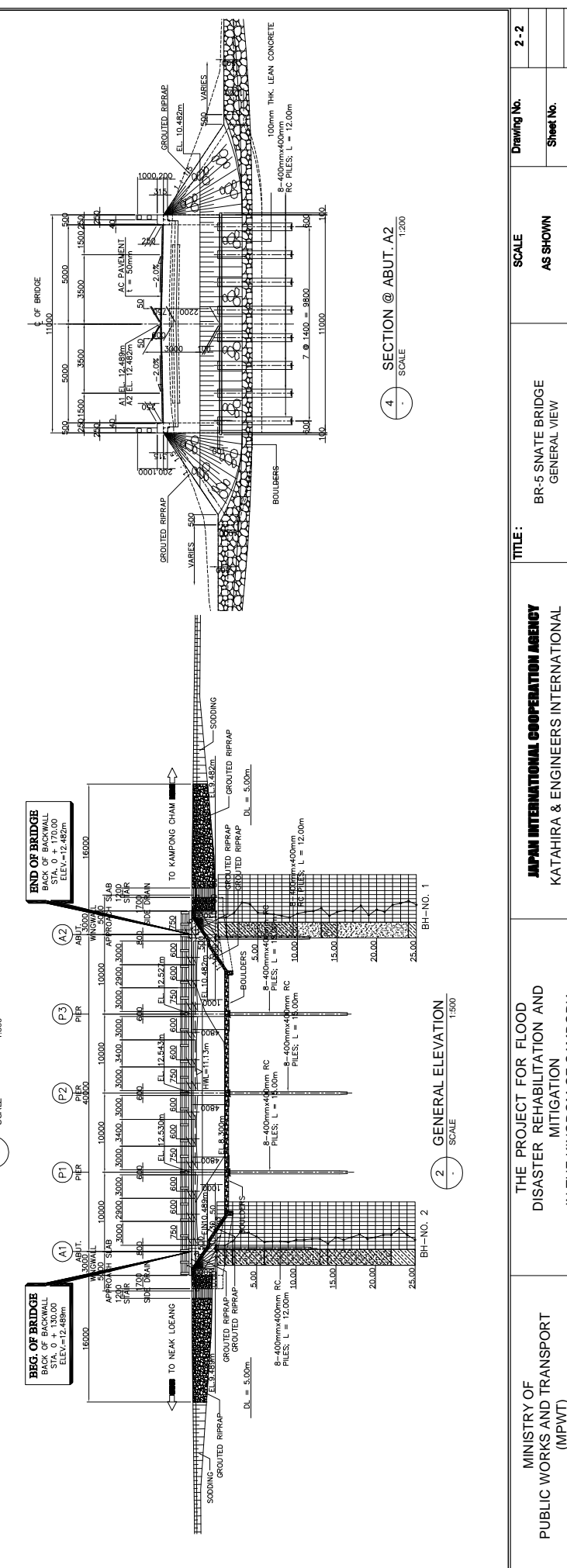
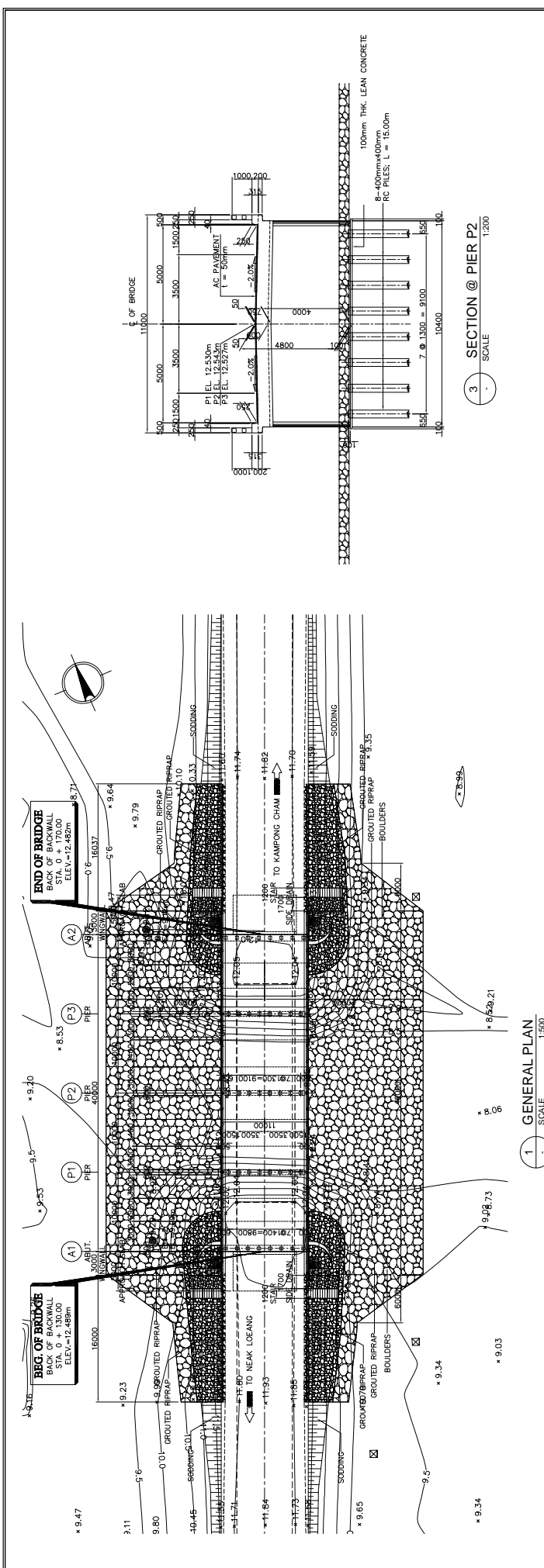
---

# BR-5 SNATE BRIDGE

---

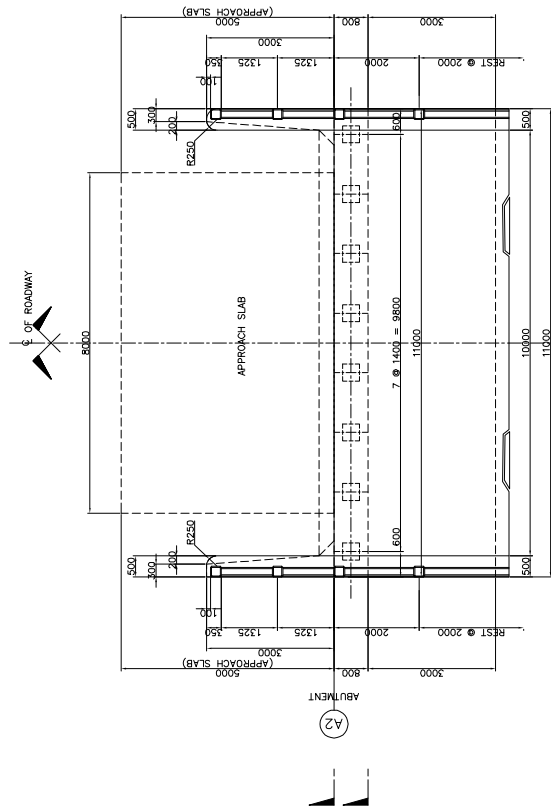


MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE: BR-5 SNA TE-IDD BRIDGE GENERAL SITE PLAN	SCALE	Drawing No.
				1:800	2 - 1
					Sheet No.

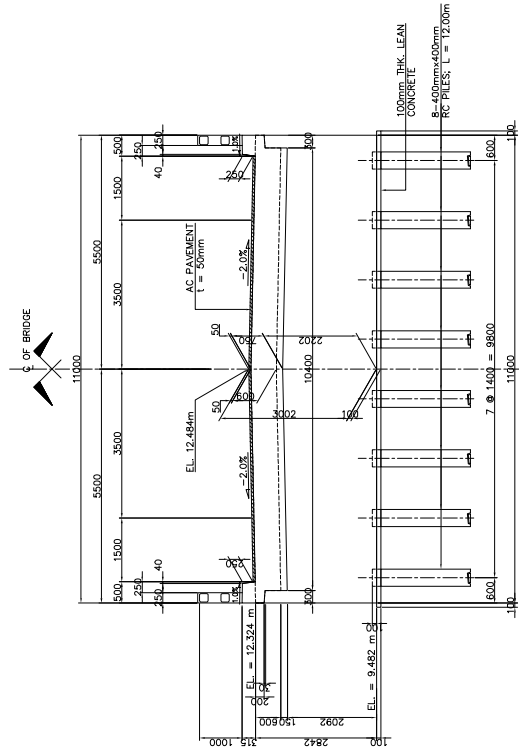


MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)	THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:	BR-5 SNATE BRIDGE GENERAL VIEW	SCALE	AS SHOWN	Drawing No.	2 - 2
							Sheet No.	

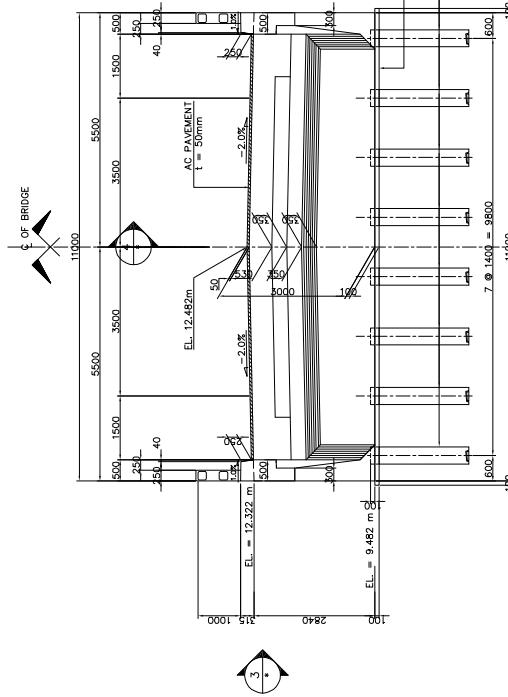




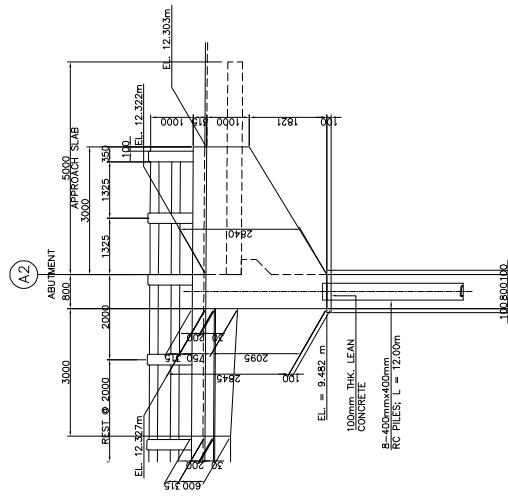
2 PLAN SCALE 1:60



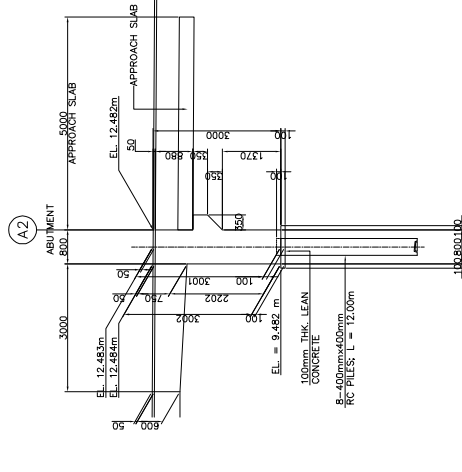
5 ELEVATION SCALE 1:60



1 ELEVATION SCALE 1:60



3 ELEVATION SCALE 1:60



4 SECTION SCALE 1:60

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL

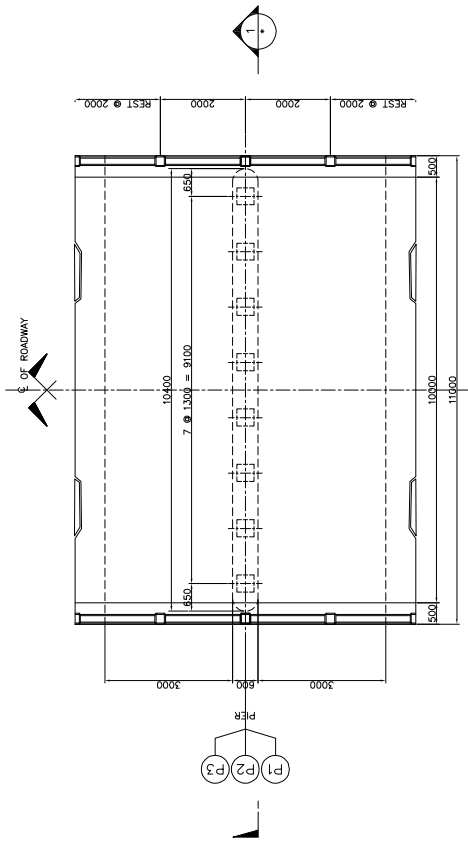
TITLE: BR-5 SNATE BRIDGE SUBSTRUCTURE STRUCTURAL DIMENSION (ABUT. A2)

SCALE AS SHOWN

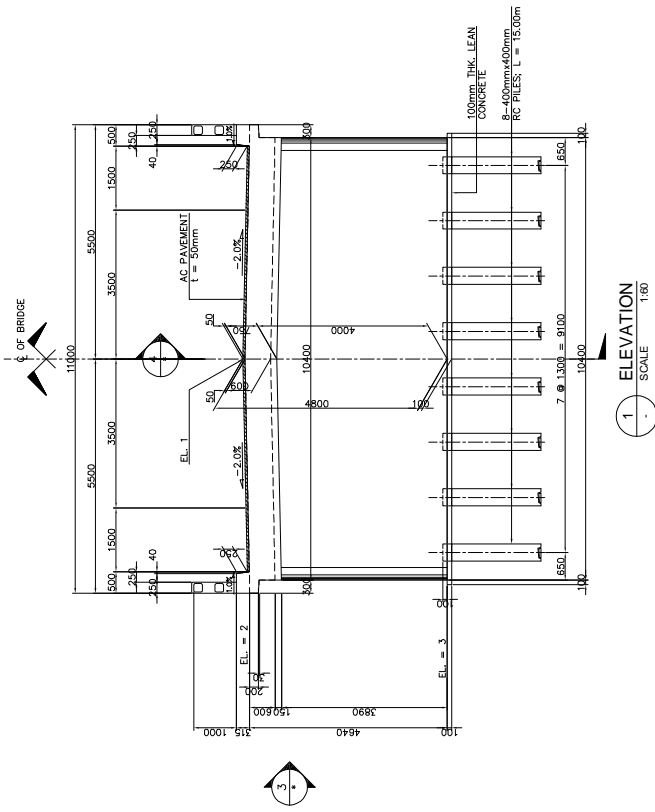
Drawing No.

Sheet No.

2 - 4

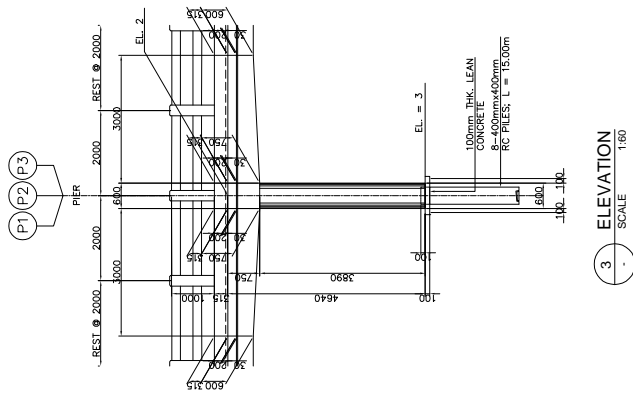


2 PLAN SCALE 1:180

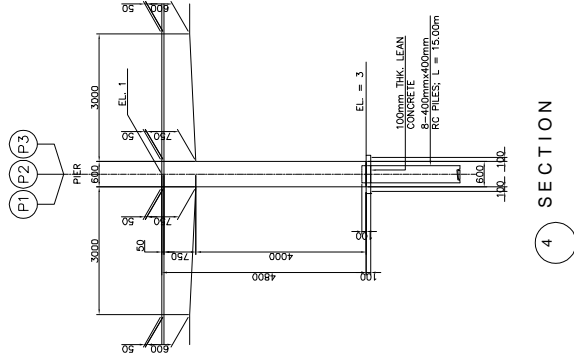


1 ELEVATION SCALE 1:180

TABLE OF ELEVATIONS			
LOCATION	EL. 1	EL. 2	EL. 3
PIER 1	12.530m	12.370m	7.730m
PIER 2	12.543m	12.383m	7.743m
PIER 3	12.527m	12.367m	7.727m



3 ELEVATION SCALE 1:180



4 SECTION

MINISTRY OF PUBLIC WORKS AND TRANSPORT (MPWT)

THE PROJECT FOR FLOOD DISASTER REHABILITATION AND MITIGATION IN THE KINGDOM OF CAMBODIA

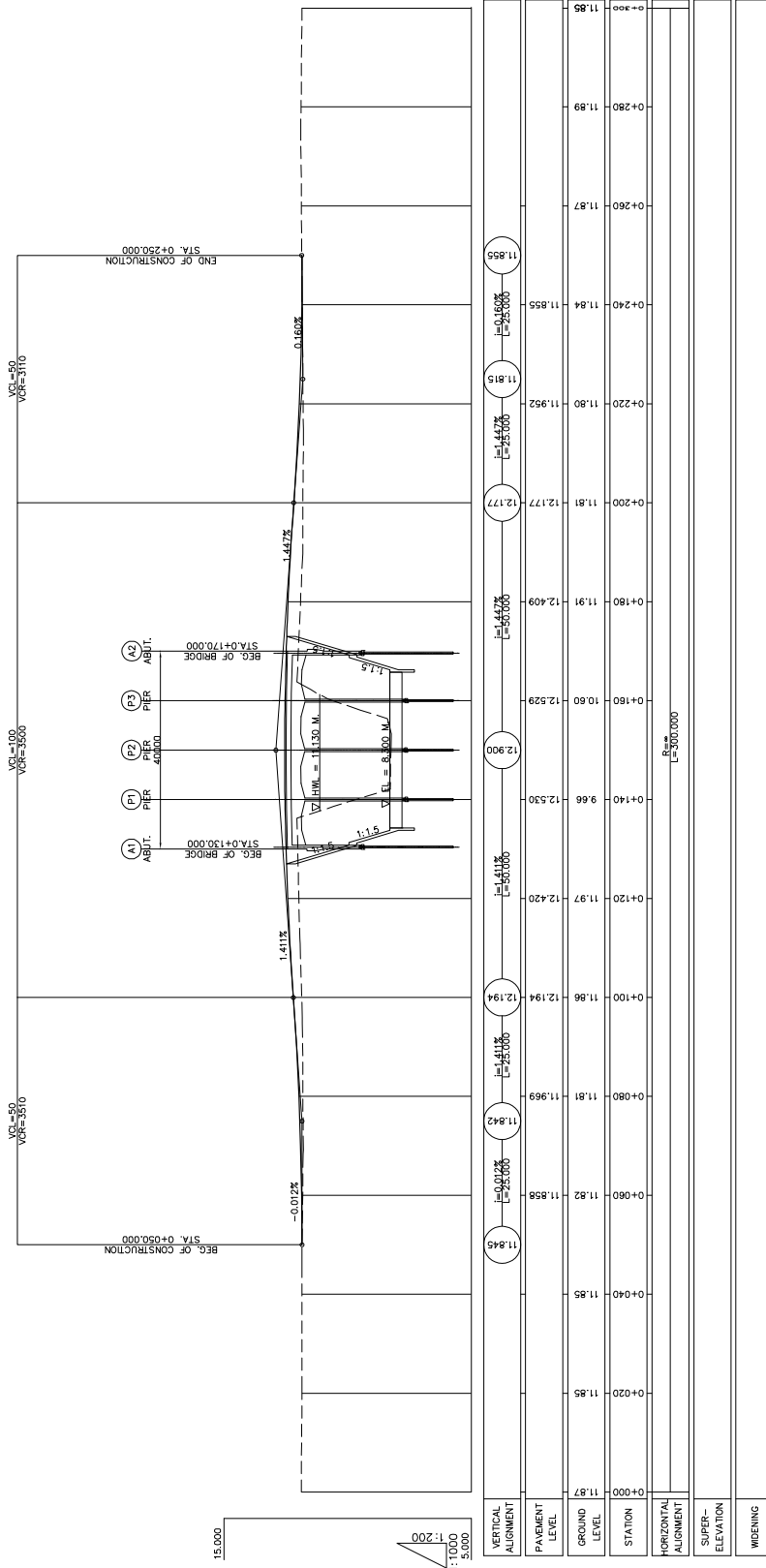
JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL

TITLE: BR-5 SNATE BRIDGE SUBSTRUCTURE STRUCTURAL DIMENSION (PIER P1, P2 & P3)

SCALE AS SHOWN

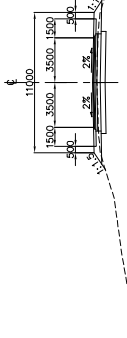
Drawing No. Sheet No.

2-5



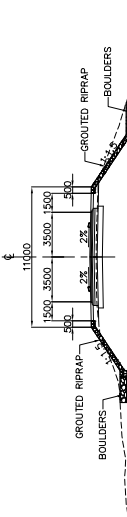
VERTICAL ALIGNMENT	11.845	11.842	11.841	11.840	11.839	11.838	11.837	11.836	11.835	11.834	11.835	11.836	11.837	11.838	11.839	11.840	11.841	11.842	11.843	11.844	11.845
PAVEMENT LEVEL	11.845	11.842	11.841	11.840	11.839	11.838	11.837	11.836	11.835	11.834	11.835	11.836	11.837	11.838	11.839	11.840	11.841	11.842	11.843	11.844	11.845
GROUND LEVEL	11.87	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.82	11.85
STATION	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300					
HORIZONTAL ALIGNMENT	L=300.000																				
SUPER-ELEVATION																					
WIDENING																					

NO.0+100.000  
GH=11.86  
PH=12.194



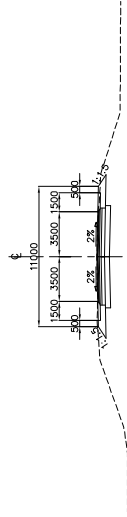
DL=5.00.

NO.0+180.000  
GH=11.91  
PH=12.409



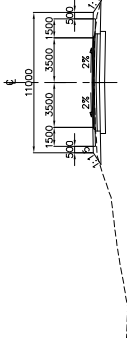
DL=5.00.

NO.0+250.000  
GH=11.86  
PH=11.855



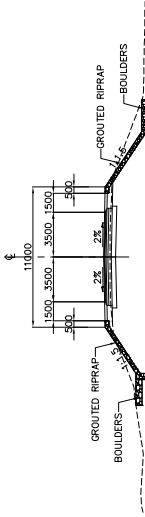
DL=5.00.

NO.0+080.000  
GH=11.81  
PH=11.969



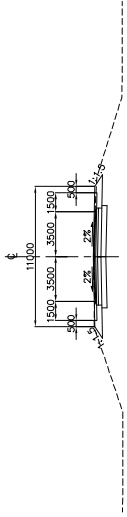
DL=5.00.

NO.0+175.000  
GH=11.95  
PH=12.449



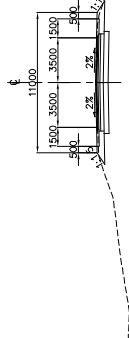
DL=5.00.

NO.0+240.000  
GH=11.84  
PH=11.855



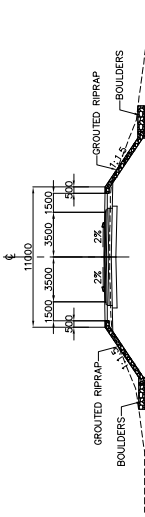
DL=5.00.

NO.0+060.000  
GH=11.85  
PH=11.858



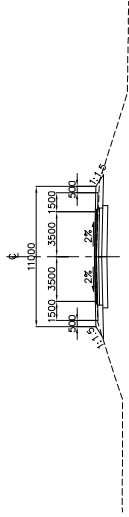
DL=5.00.

NO.0+125.000  
GH=11.89  
PH=12.458



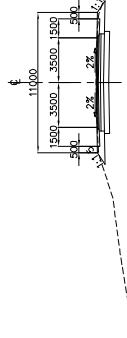
DL=5.00.

NO.0+220.000  
GH=11.80  
PH=11.862



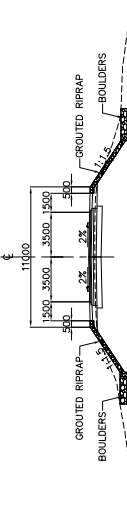
DL=5.00.

NO.0+050.000  
GH=11.84  
PH=11.846



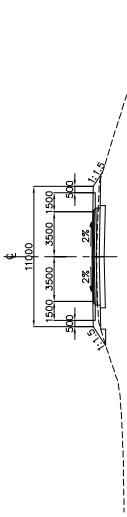
DL=5.00.

NO.0+120.000  
GH=11.97  
PH=12.420



DL=5.00.

NO.0+200.000  
GH=11.81  
PH=12.177



DL=5.00.

DL=5.00.

DL=5.00.

MINISTRY OF  
PUBLIC WORKS AND TRANSPORT  
(MPWT)

THE PROJECT FOR FLOOD  
DISASTER REHABILITATION AND  
MITIGATION  
IN THE KINGDOM OF CAMBODIA

JAPAN INTERNATIONAL COOPERATION AGENCY  
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE :  
BR-5 SNATE BRIDGE  
APPROACH ROAD CROSS SECTIONS

SCALE  
1 : 400

Drawing No. 2-7  
Sheet No.