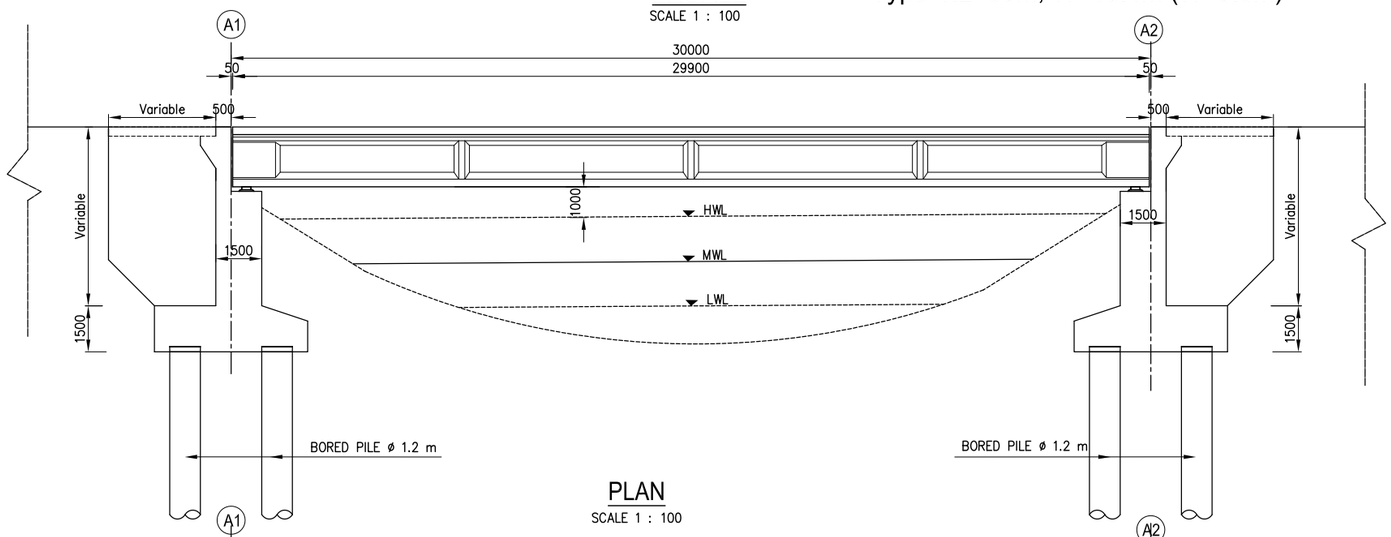
C. General View of Bridge

General View of PC-I Girder

Type-1:L=30m, W=10.4m (W=9.8m)

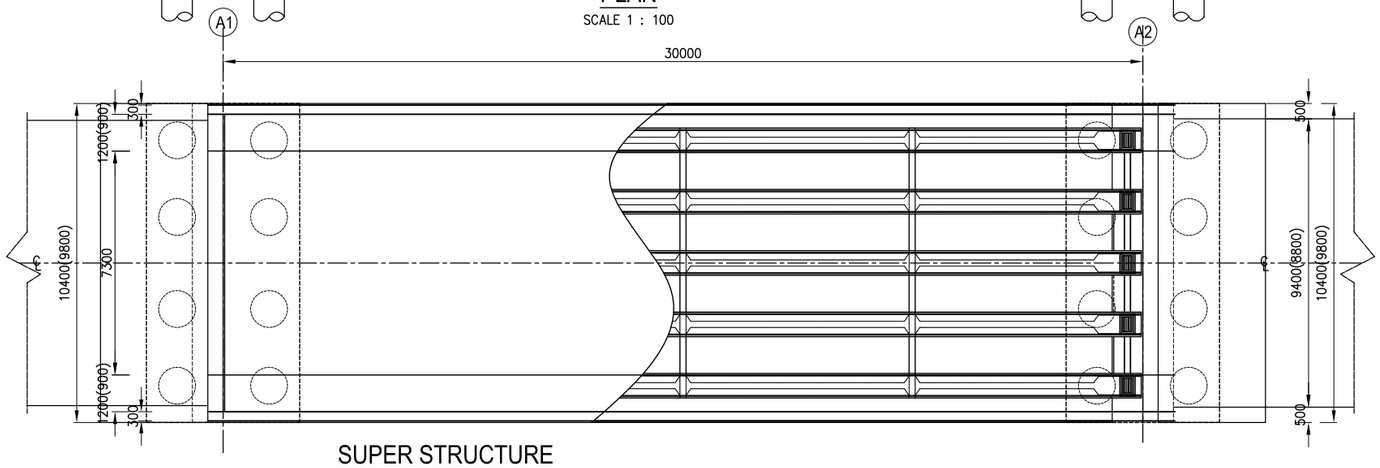
PROFILE

SCALE 1 : 100



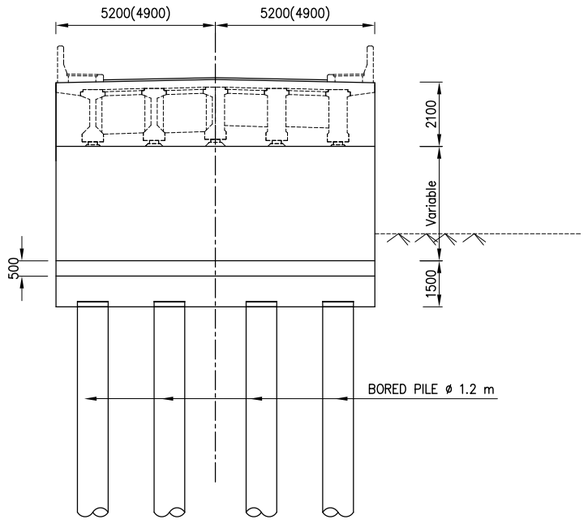
PLAN

SCALE 1 : 100



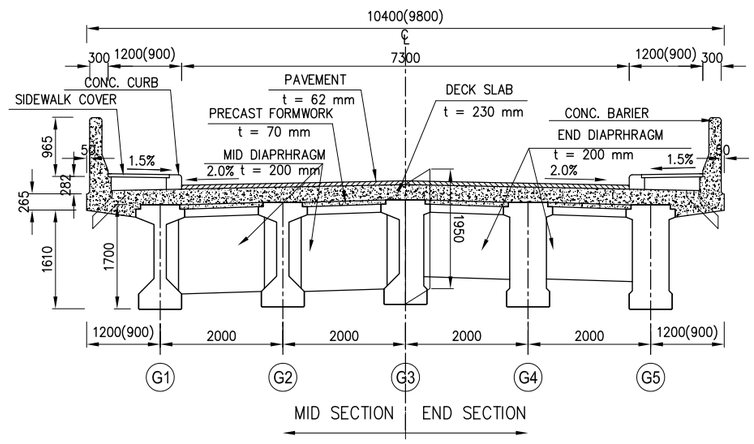
SUB STRUCTURE

SCALE 1 : 100



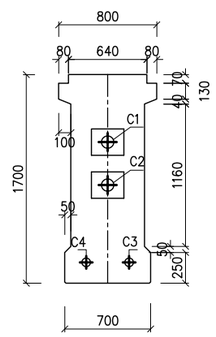
SUPER STRUCTURE

SCALE 1 : 50



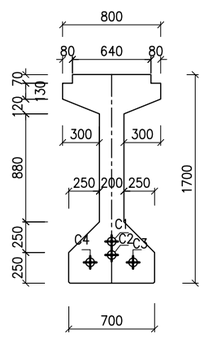
END SECTION

SCALE 1 : 25

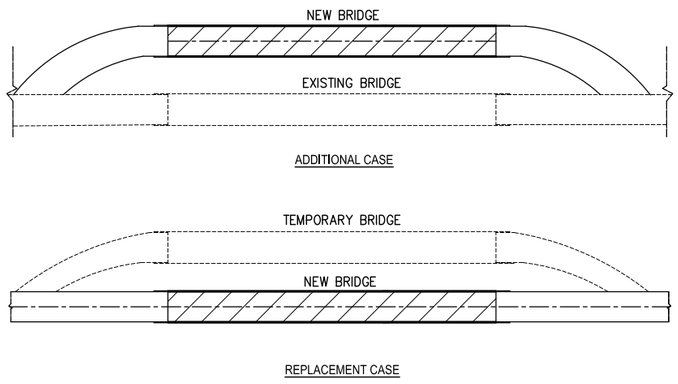


MID SECTION

SCALE 1 : 25



KEY PLAN



Note:
The numerical value in parentheses shows Zilla Road.

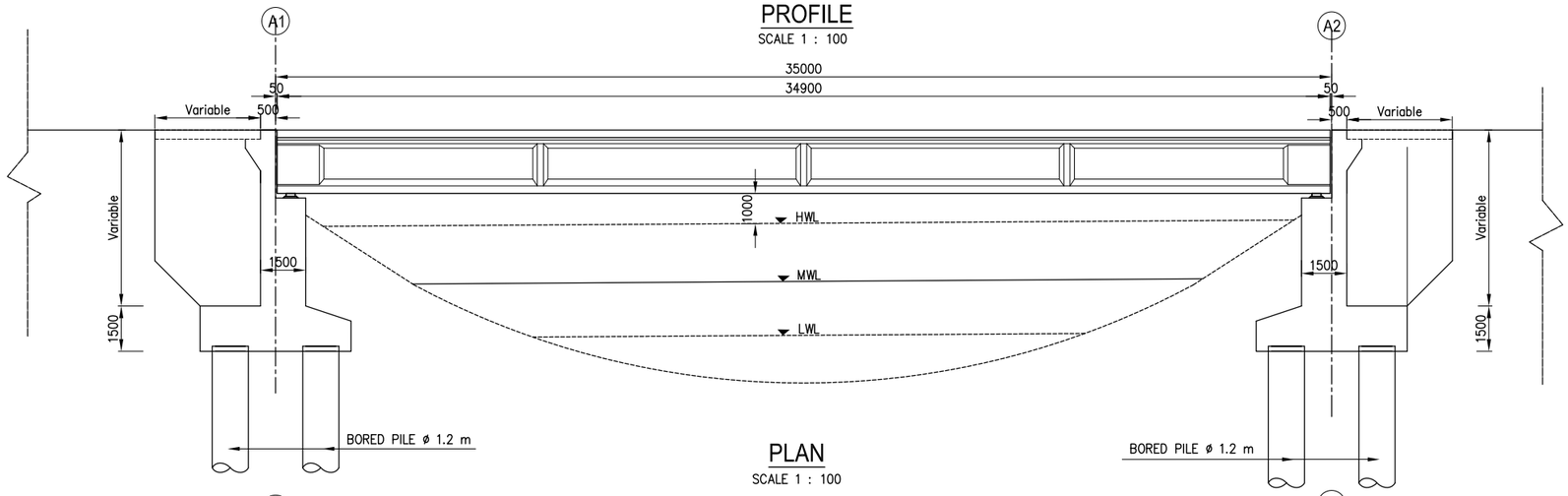
MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL	No	REVISION	DATE	PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT General View of PC-I Girder Type-1:L=30m, W=10.4m (W=9.8m)	DESIGNED BY: CHECKED BY: APPROVED BY: DWG. NO.	 GV-1

General View of PC-I Girder

Type-2:L=35m, W=10.4m (W=9.8m)

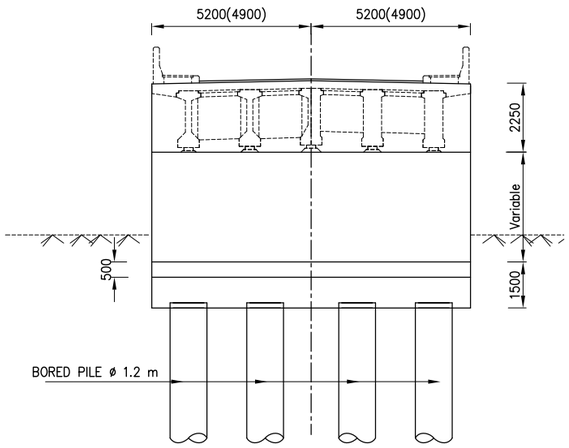
PROFILE

SCALE 1 : 100



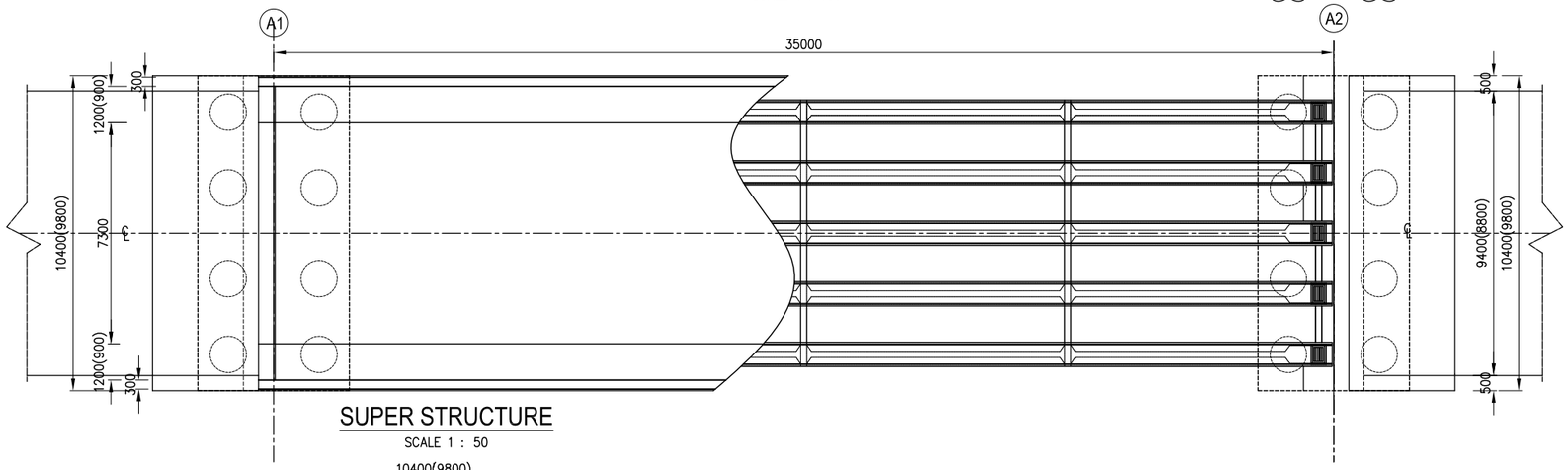
SUB STRUCTURE

SCALE 1 : 100



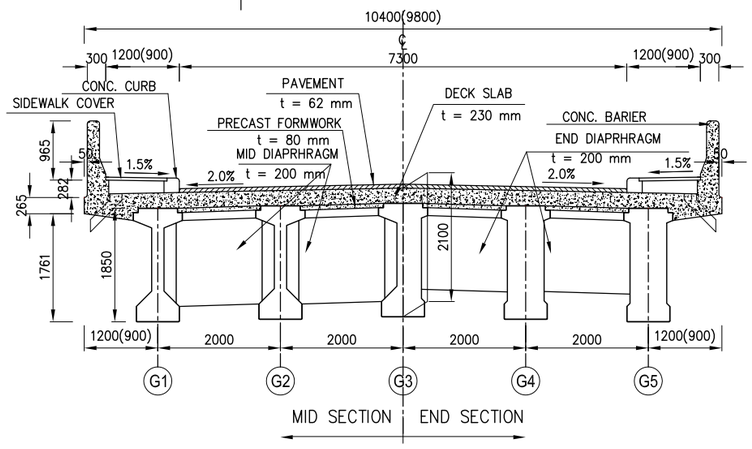
PLAN

SCALE 1 : 100



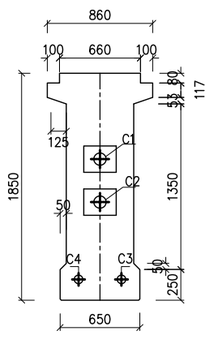
SUPER STRUCTURE

SCALE 1 : 50



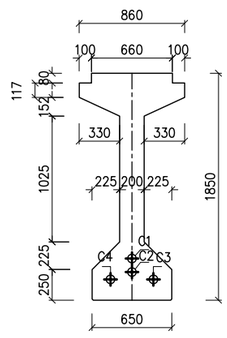
END SECTION

SCALE 1 : 25

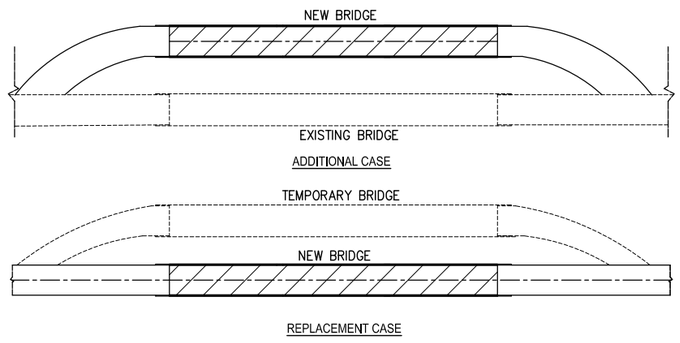


MID SECTION

SCALE 1 : 25



KEY PLAN



Note:
The numerical value in parentheses shows Zilla Road.

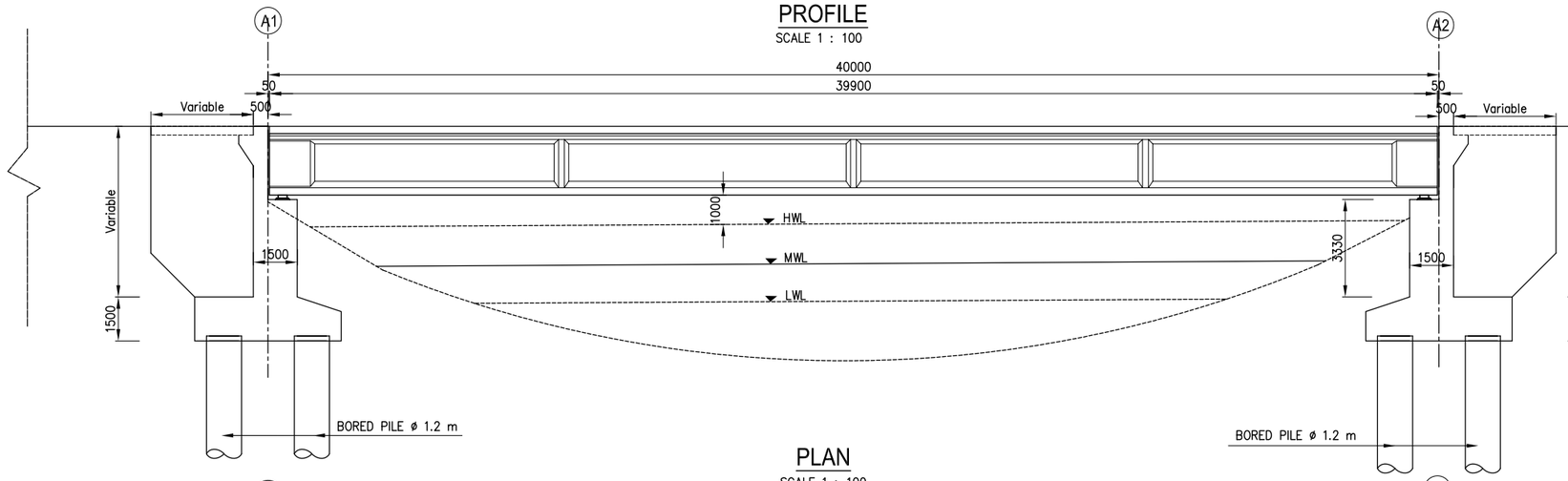
MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL	No	REVISION	DATE	PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT General View of PC-I Girder Type-2:L=35m, W=10.4m (W=9.8m)	DESIGNED BY: CHECKED BY: APPROVED BY: DWG. NO. GV-2

General View of PC-I Girder

Type-3:L=40m, W=10.4m (W=9.8m)

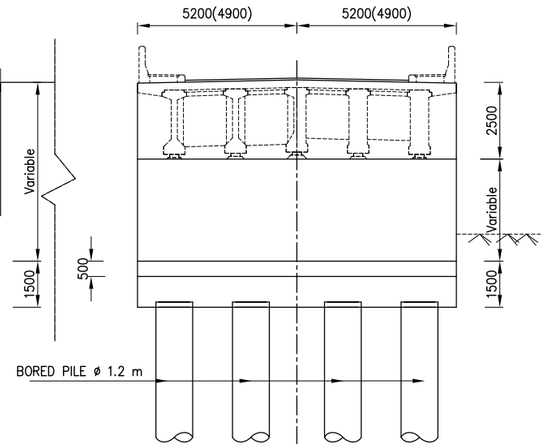
PROFILE

SCALE 1 : 100



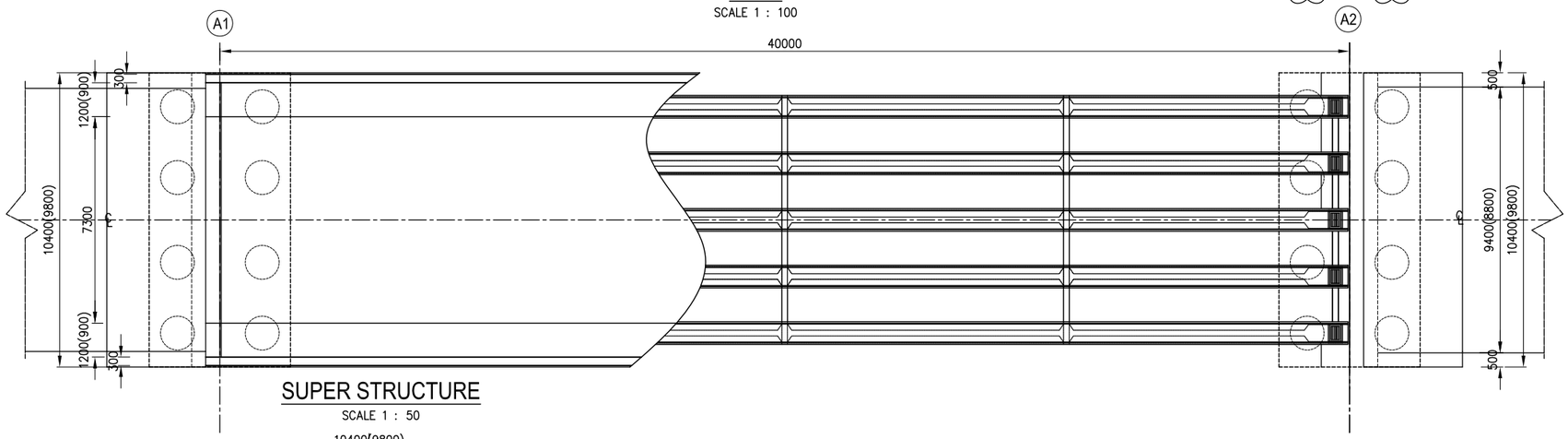
SUB STRUCTURE

SCALE 1 : 100



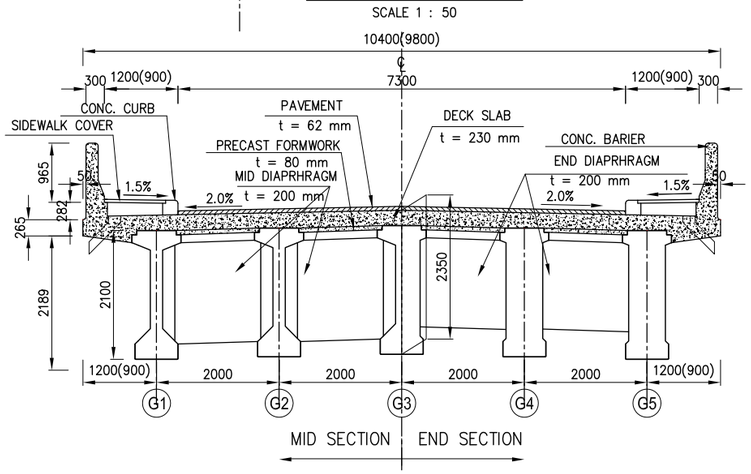
PLAN

SCALE 1 : 100



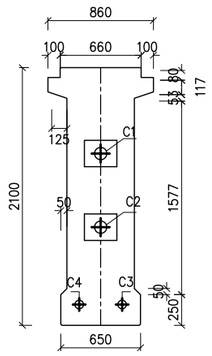
SUPER STRUCTURE

SCALE 1 : 50



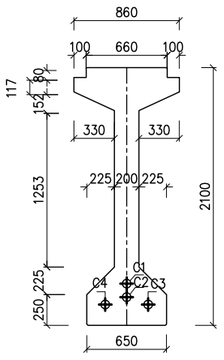
END SECTION

SCALE 1 : 25

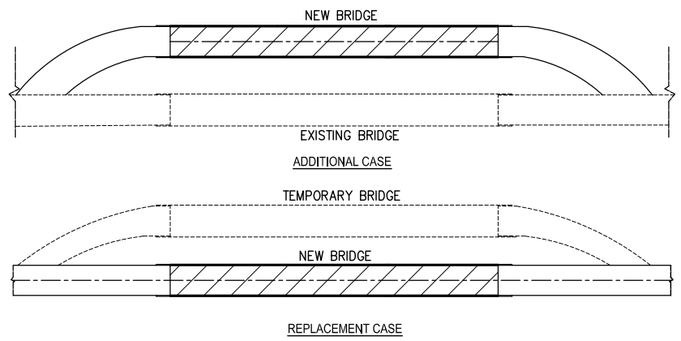


MID SECTION

SCALE 1 : 25



KEY PLAN



Note:
The numerical value in parentheses shows Zilla Road.

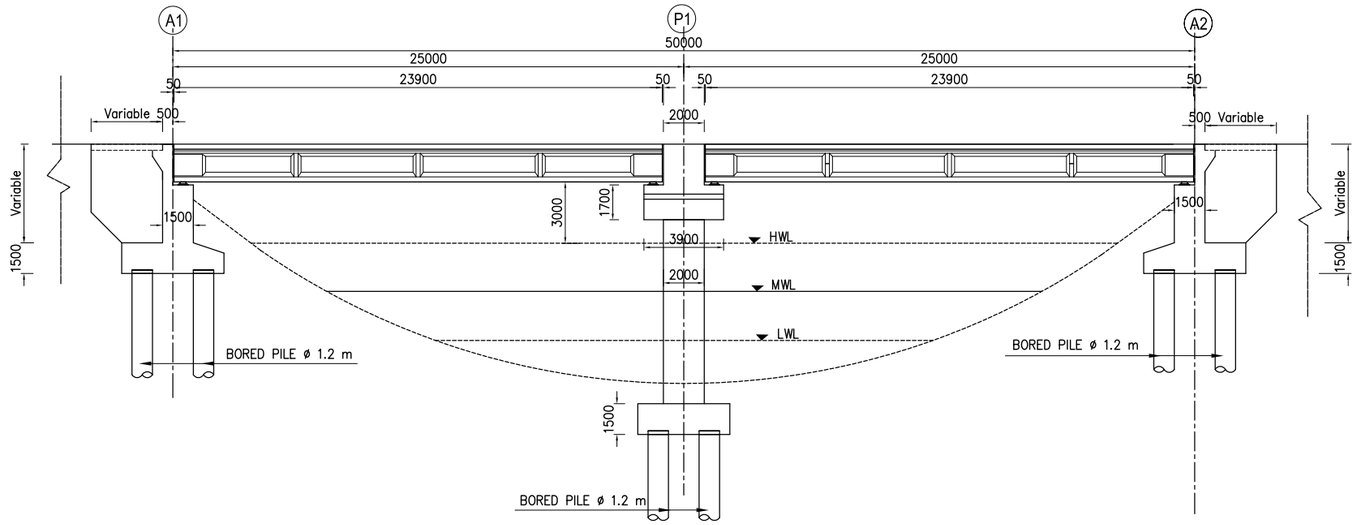
MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL	No	REVISION	DATE	PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT General View of PC-I Girder Type-3:L=40m, W=10.4m (W=9.8m)	DESIGNED BY: CHECKED BY: APPROVED BY: DWG. NO.	 GV-3

General View of PC-I Girder

Type-4:L=50m (2@25m), W=10.4m (W=9.8m)

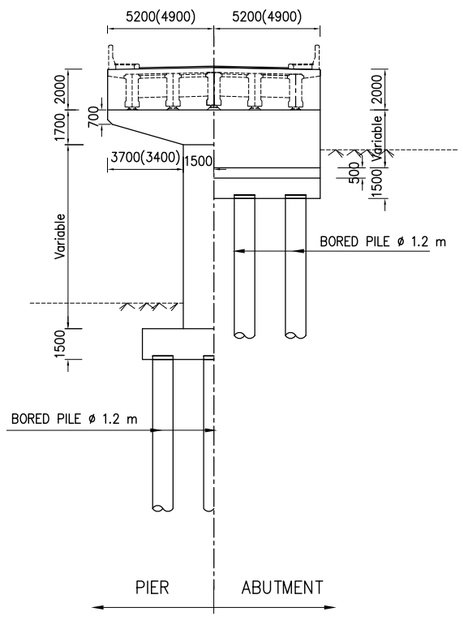
PROFILE

SCALE 1 : 150



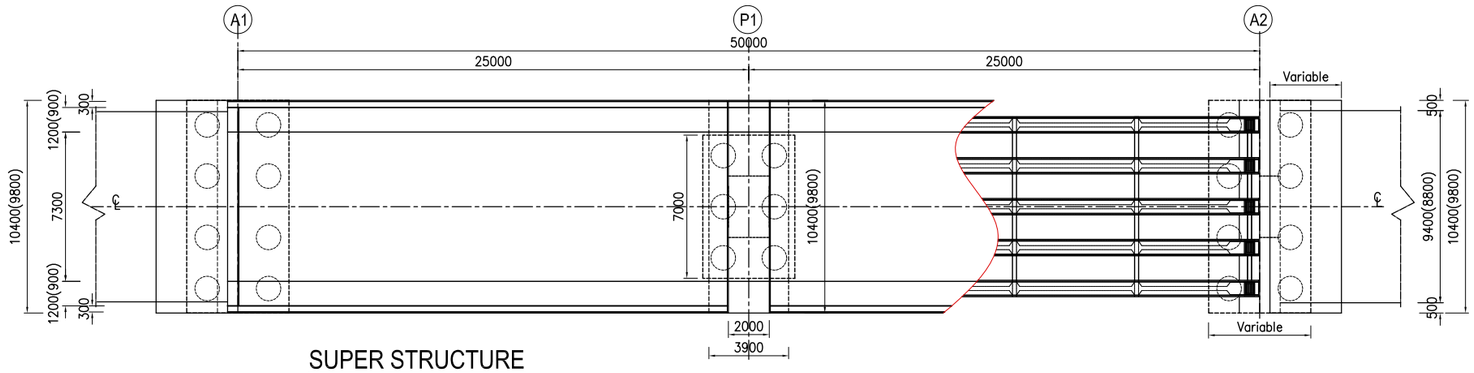
SUB STRUCTURE

SCALE 1 : 150



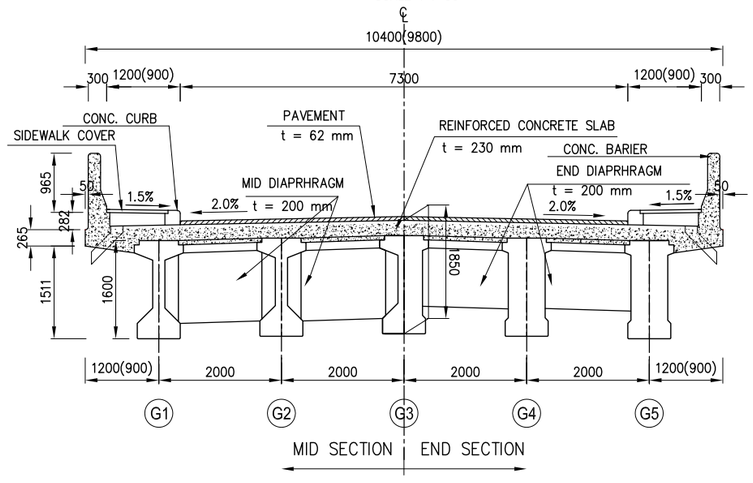
PLAN

SCALE 1 : 150



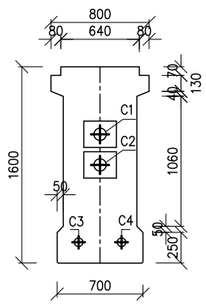
SUPER STRUCTURE

SCALE 1 : 50



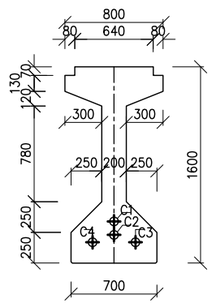
END SECTION

SCALE 1 : 25

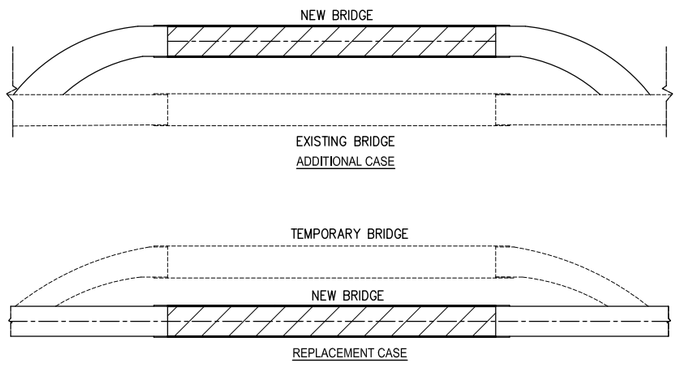


MID SECTION

SCALE 1 : 25



KEY PLAN



Note:
The numerical value in parentheses shows Zilla Road.

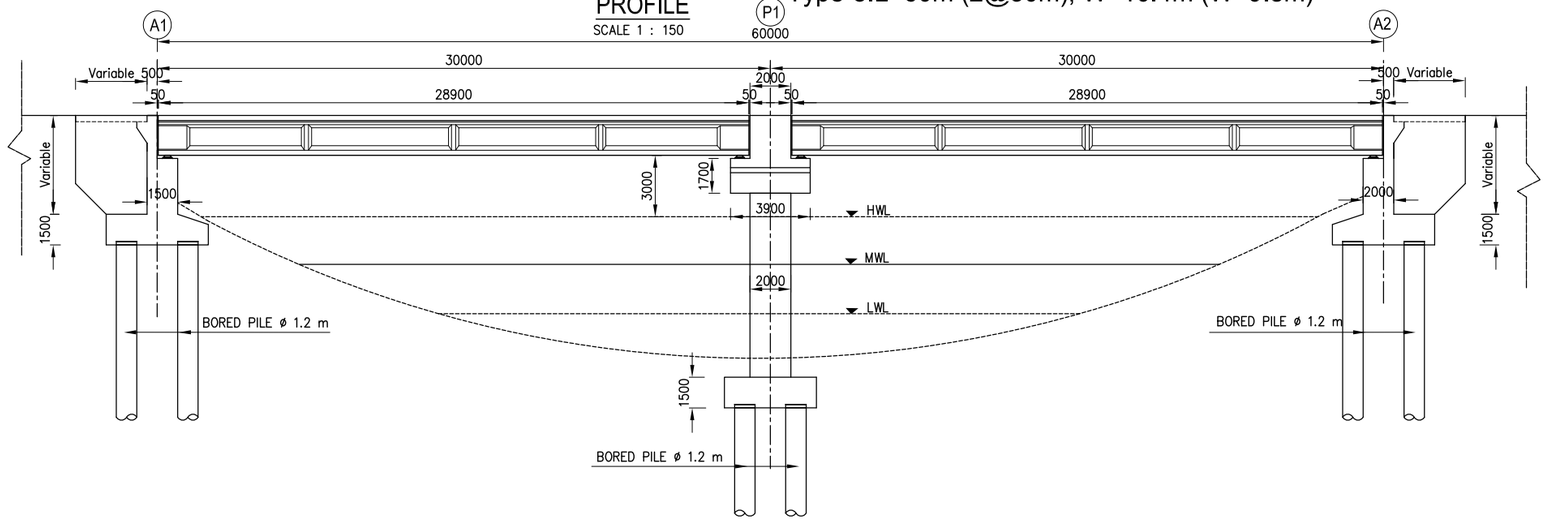
MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL	No	REVISION	DATE	PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT General View of PC-I Girder Type-4:L=50m (2@25m), W=10.4m (W=9.8m)	DESIGNED BY: CHECKED BY: APPROVED BY: DWG. NO.	 GV-4

General View of PC-I Girder

Type-5:L=60m (2@30m), W=10.4m (W=9.8m)

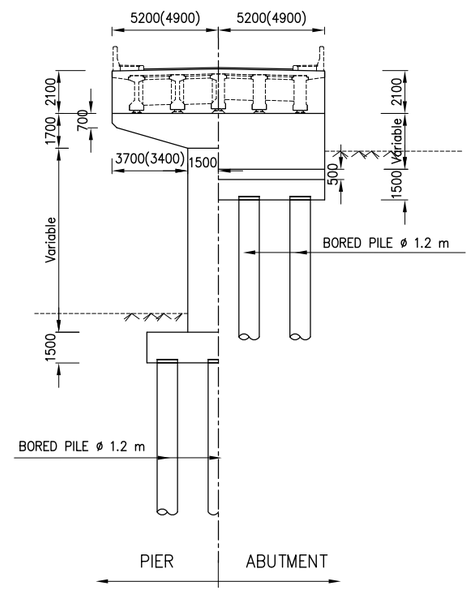
PROFILE

SCALE 1 : 150



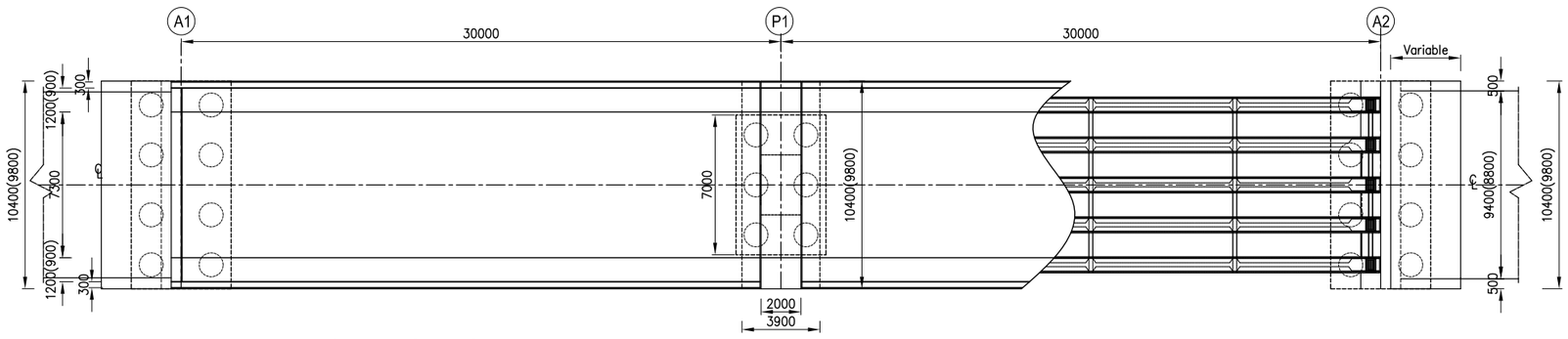
SUB STRUCTURE

SCALE 1 : 150



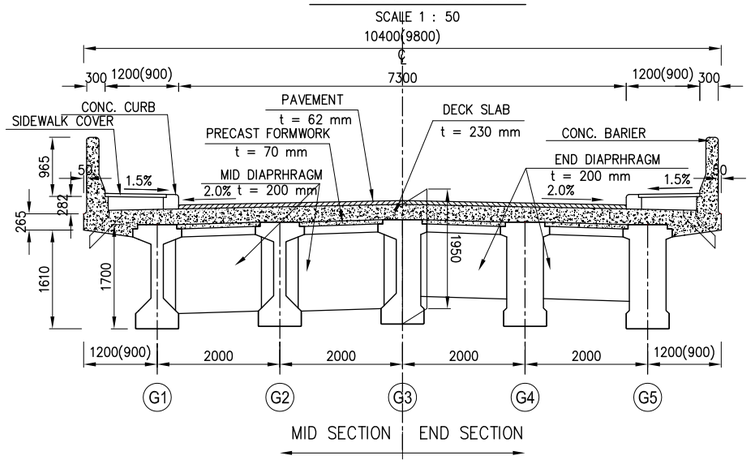
PLAN

SCALE 1 : 150



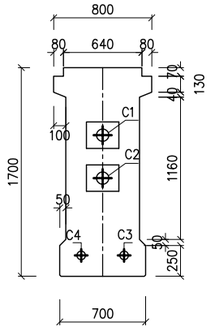
SUPER STRUCTURE

SCALE 1 : 50



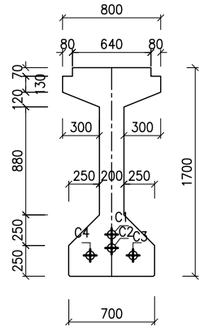
END SECTION

SCALE 1 : 25

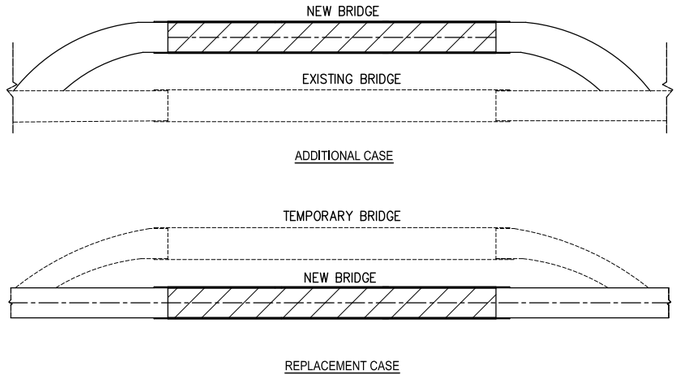


MID SECTION

SCALE 1 : 25



KEY PLAN



Note:
The numerical value in parentheses shows Zilla Road.

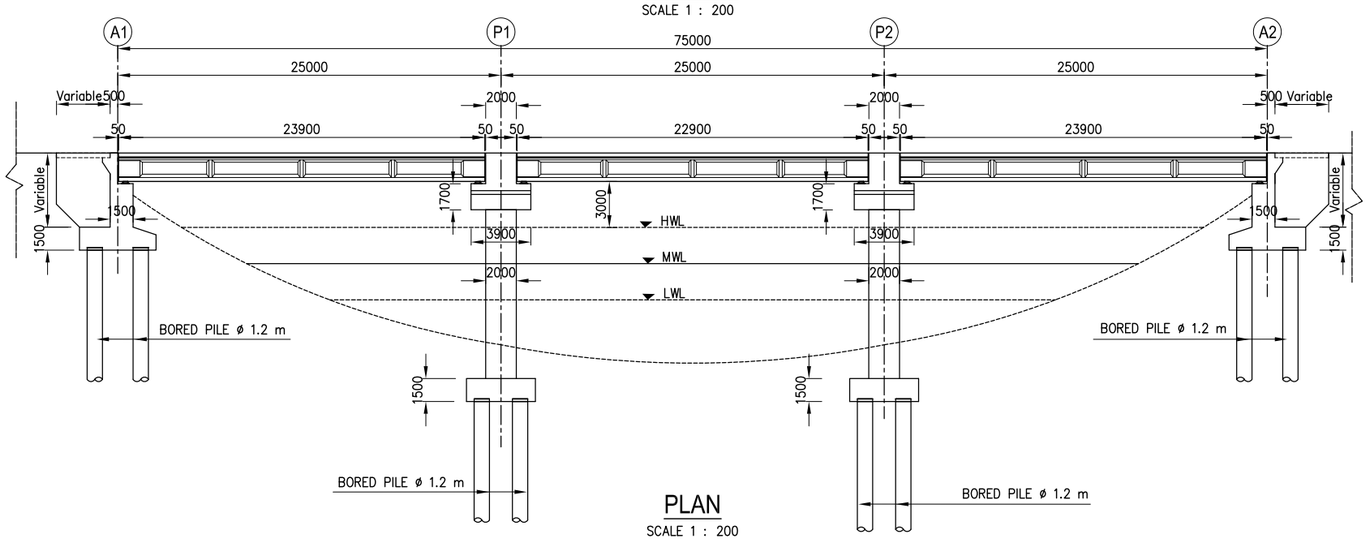
MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL	No	REVISION	DATE	PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT General View of PC-I Girder Type-5:L=60m (2@30m), W=10.4m (W=9.8m)	DESIGNED BY: CHECKED BY: APPROVED BY: DWG. NO.	 GV-5

General View of PC-I Girder

Type-6:L=75m (3@25m), W=10.4m (W=9.8m)

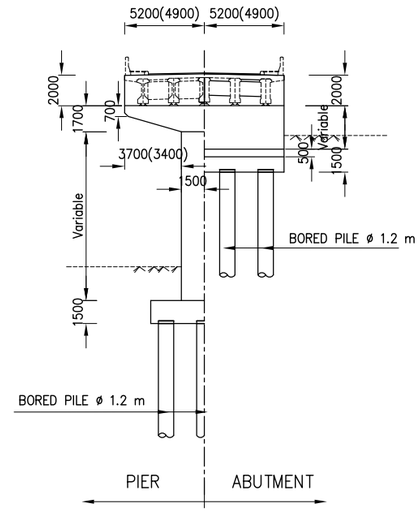
PROFILE

SCALE 1 : 200



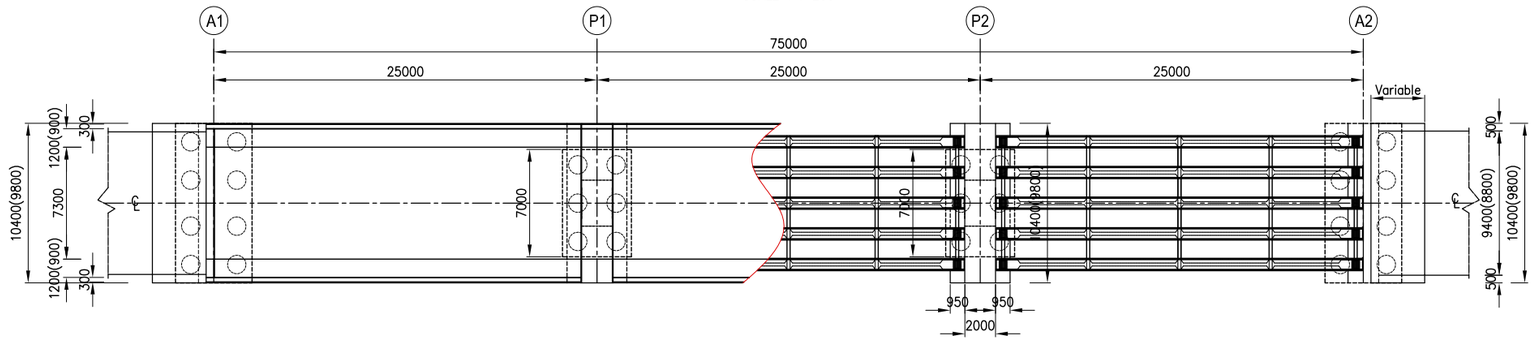
SUB STRUCTURE

SCALE 1 : 200



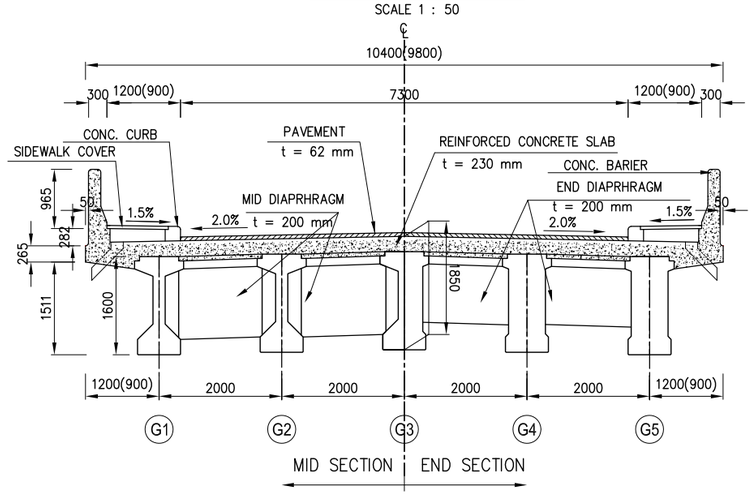
PLAN

SCALE 1 : 200



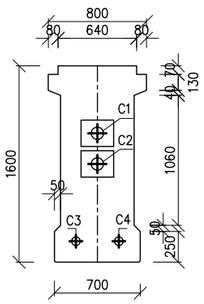
SUPER STRUCTURE

SCALE 1 : 50



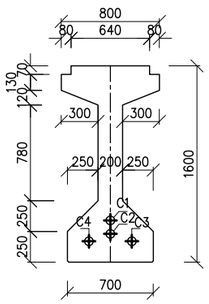
END SECTION

SCALE 1 : 25

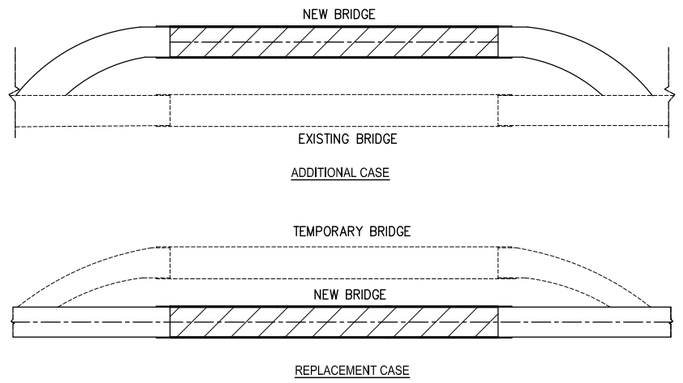


MID SECTION

SCALE 1 : 25



KEY PLAN



Note:
The numerical value in parentheses shows Zilla Road.

MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL	No / REVISION / DATE	PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT General View of PC-I Girder Type-6:L=75m (3@25m), W=10.4m (W=9.8m)

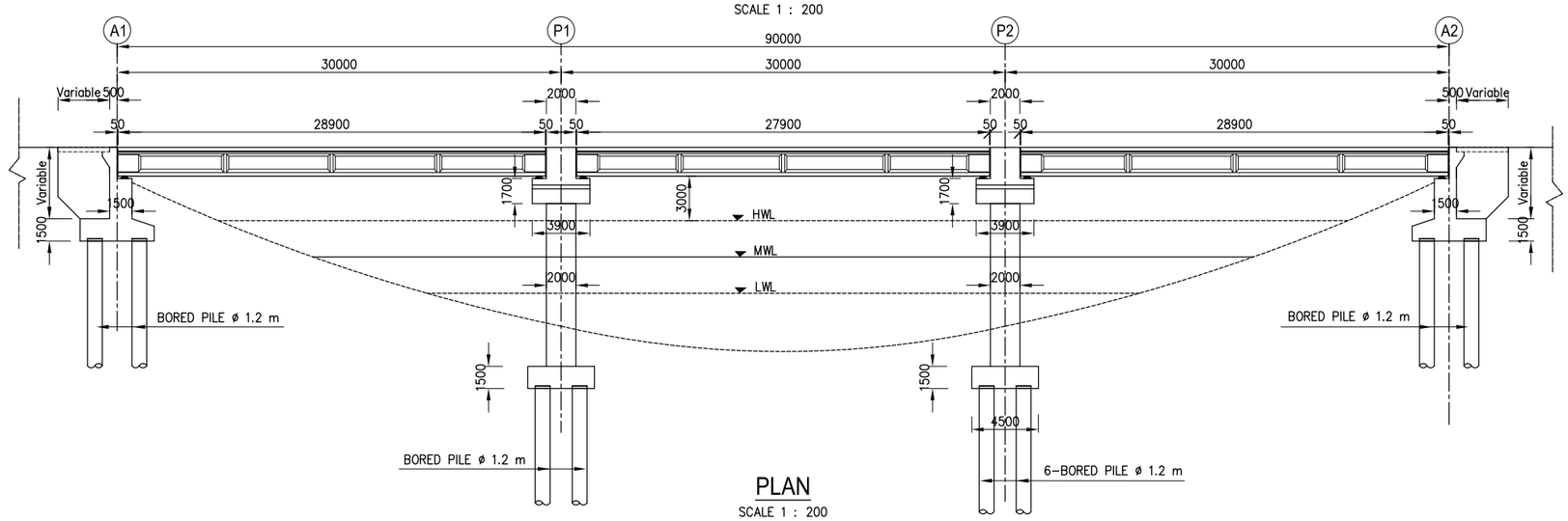
DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	GV-6

General View of PC-I Girder

Type-7:L=90m (3@30m), W=10.4m (W=9.8m)

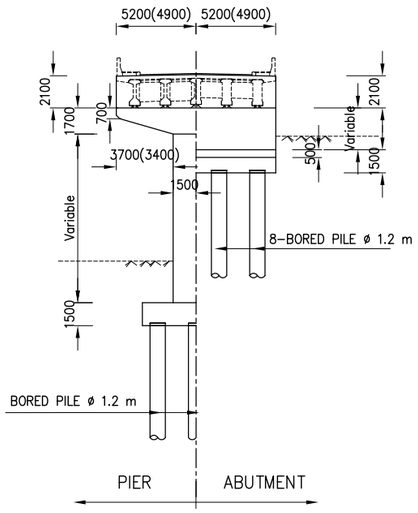
PROFILE

SCALE 1 : 200



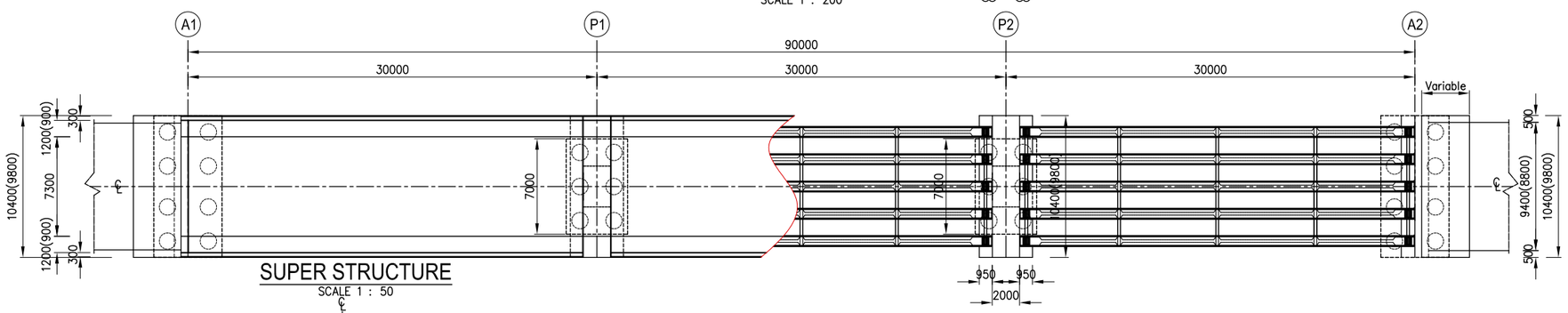
SUB STRUCTURE

SCALE 1 : 200



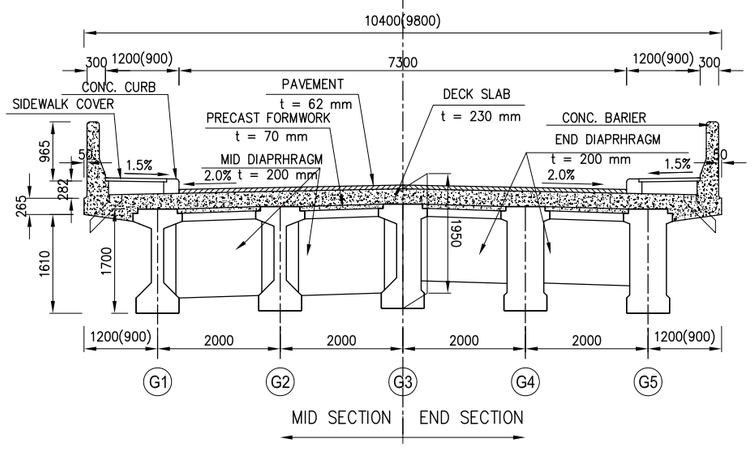
PLAN

SCALE 1 : 200



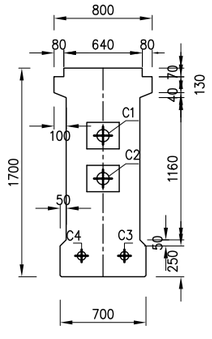
SUPER STRUCTURE

SCALE 1 : 50



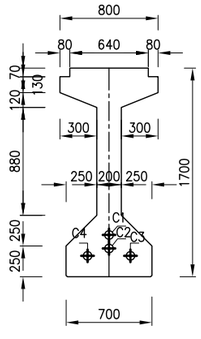
END SECTION

SCALE 1 : 25

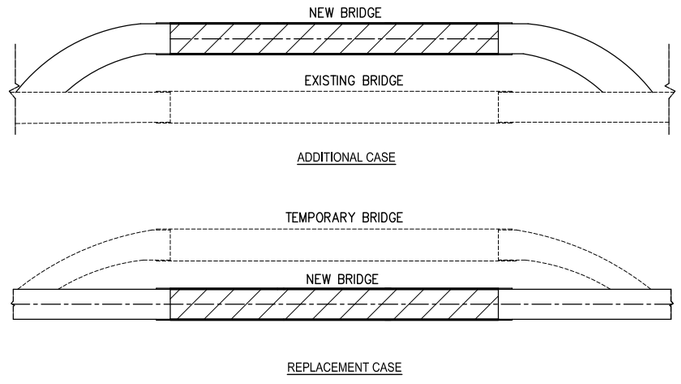


MID SECTION

SCALE 1 : 25



KEY PLAN



Note:
The numerical value in parentheses shows Zilla Road.

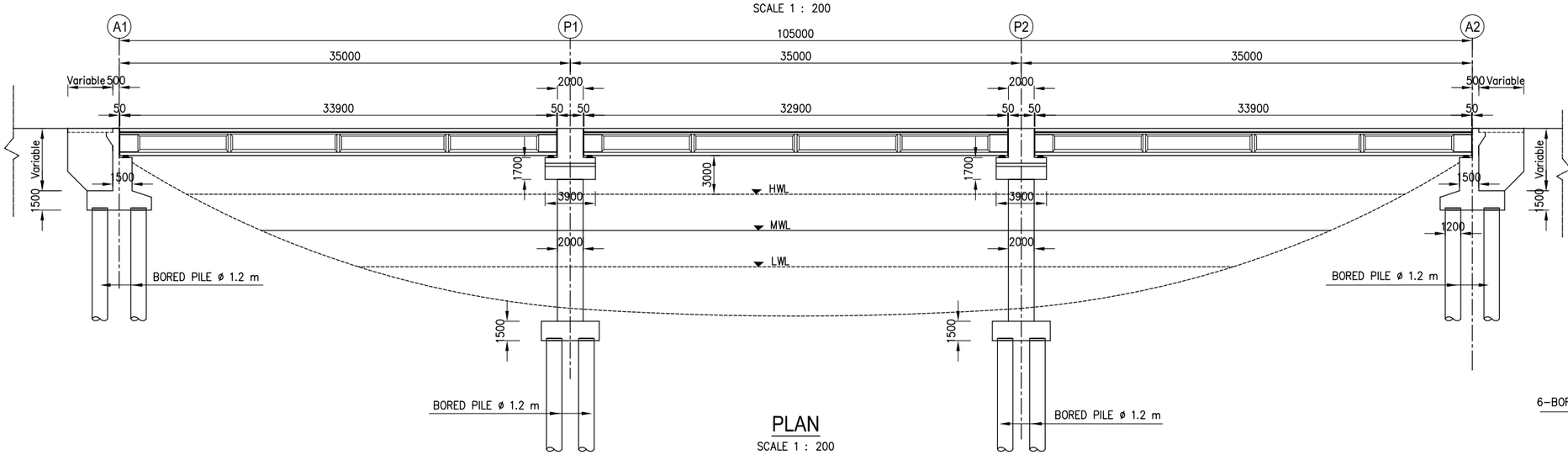
MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL	No	REVISION	DATE	PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT General View of PC-I Girder Type-7:L=90m (3@30m), W=10.4m (W=9.8m)	DESIGNED BY: CHECKED BY: APPROVED BY: DWG. NO.	 GV-7

General View of PC-I Girder

Type-8:L=105m (3@35m), W=10.4m (W=9.8m)

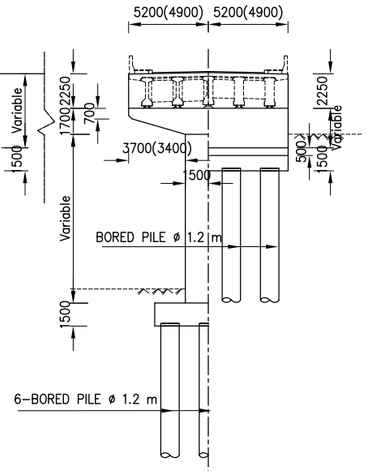
PROFILE

SCALE 1 : 200



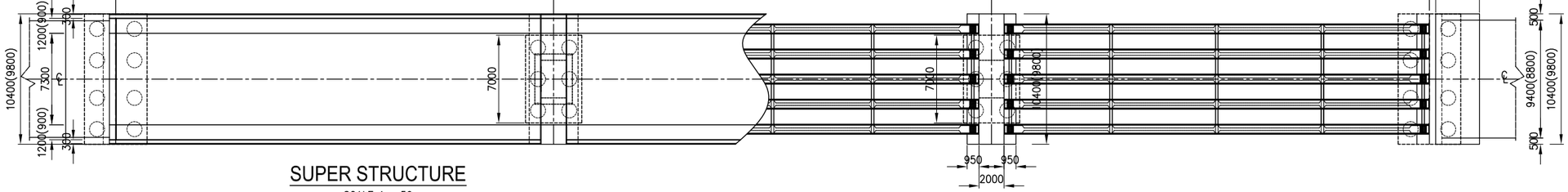
SUB STRUCTURE

SCALE 1 : 200



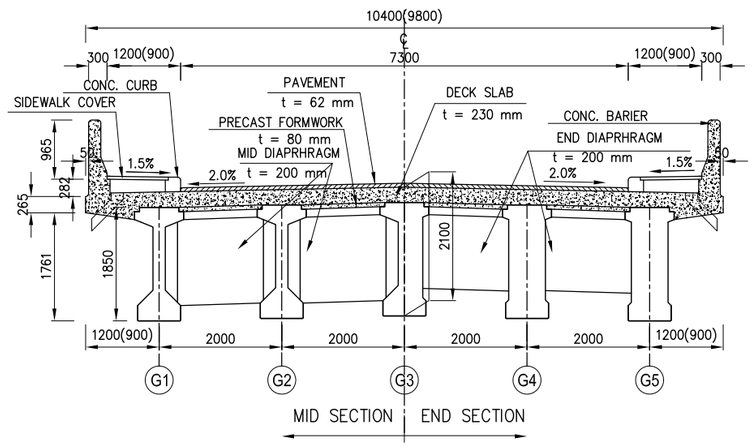
PLAN

SCALE 1 : 200



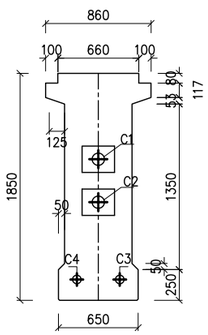
SUPER STRUCTURE

SCALE 1 : 50



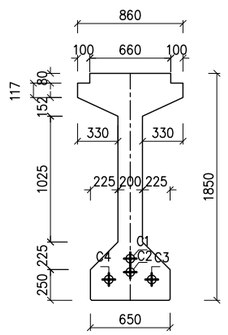
END SECTION

SCALE 1 : 25

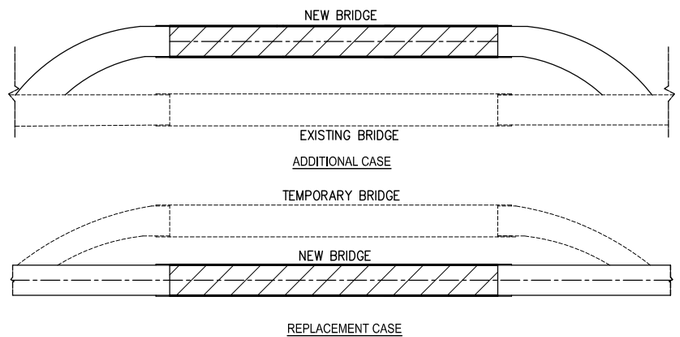


MID SECTION

SCALE 1 : 25



KEY PLAN



Note:
The numerical value in parentheses shows Zilla Road.

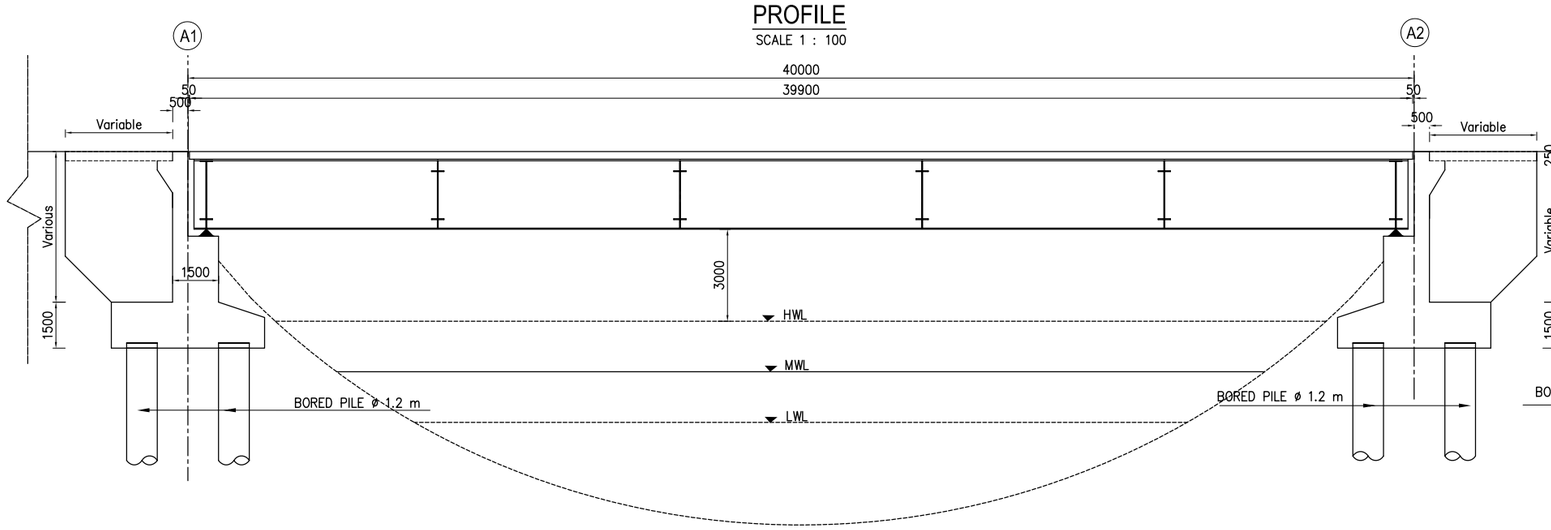
MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL	No	REVISION	DATE	PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT General View of PC-I Girder Type-8:L=105m (3@35m), W=10.4m (W=9.8m)	DESIGNED BY: CHECKED BY: APPROVED BY: DWG. NO.	 GV-8

General View of Steel-I Girder

Type-1:L=40m, W=10.4m (W=9.8m)

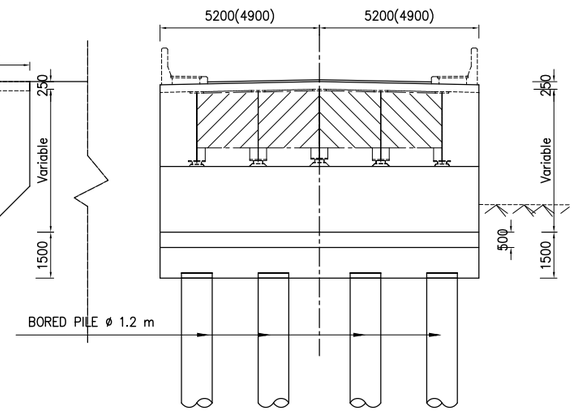
PROFILE

SCALE 1 : 100



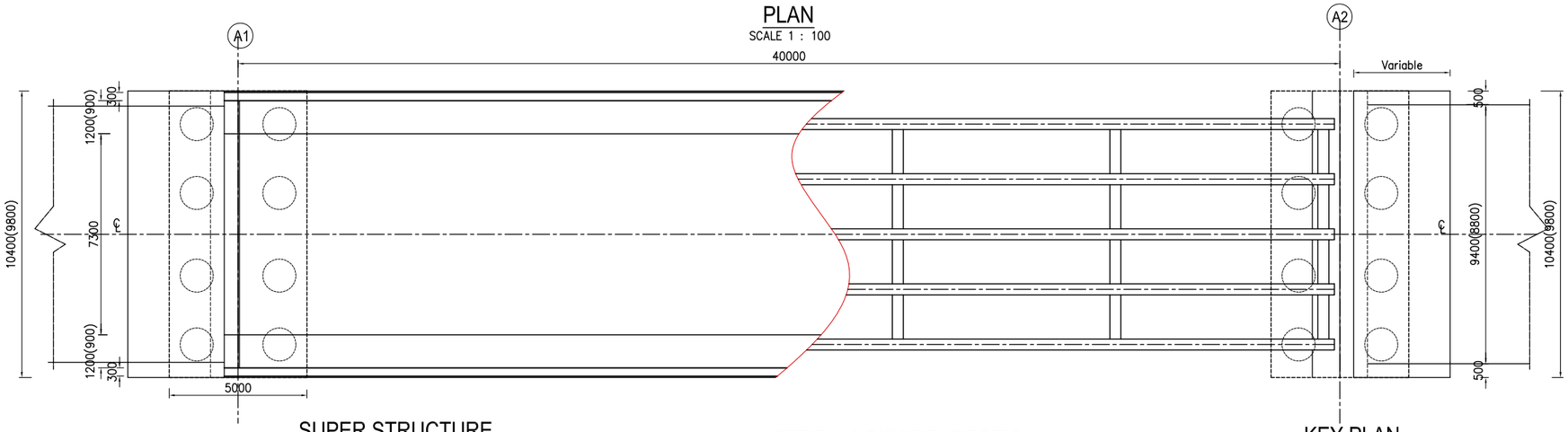
SUB STRUCTURE

SCALE 1 : 100



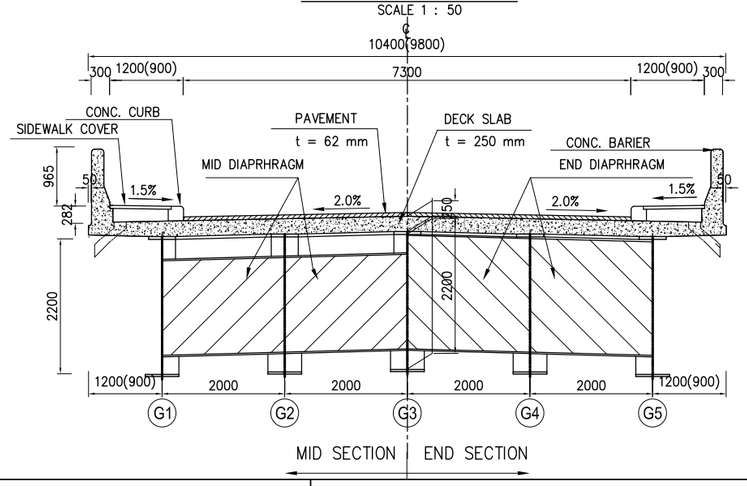
PLAN

SCALE 1 : 100



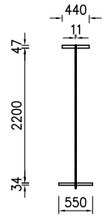
SUPER STRUCTURE

SCALE 1 : 50

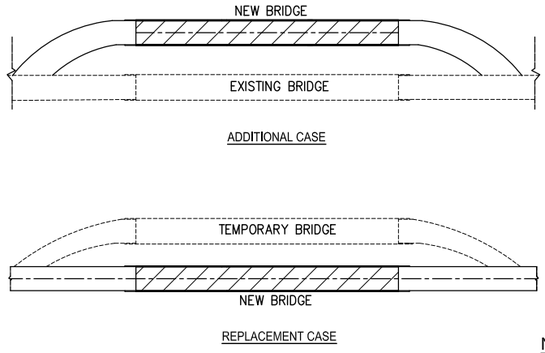


STEEL - I GIRDER SECTION

SCALE 1 : 50



KEY PLAN



Note:
The numerical value in parentheses shows Zilla Road.

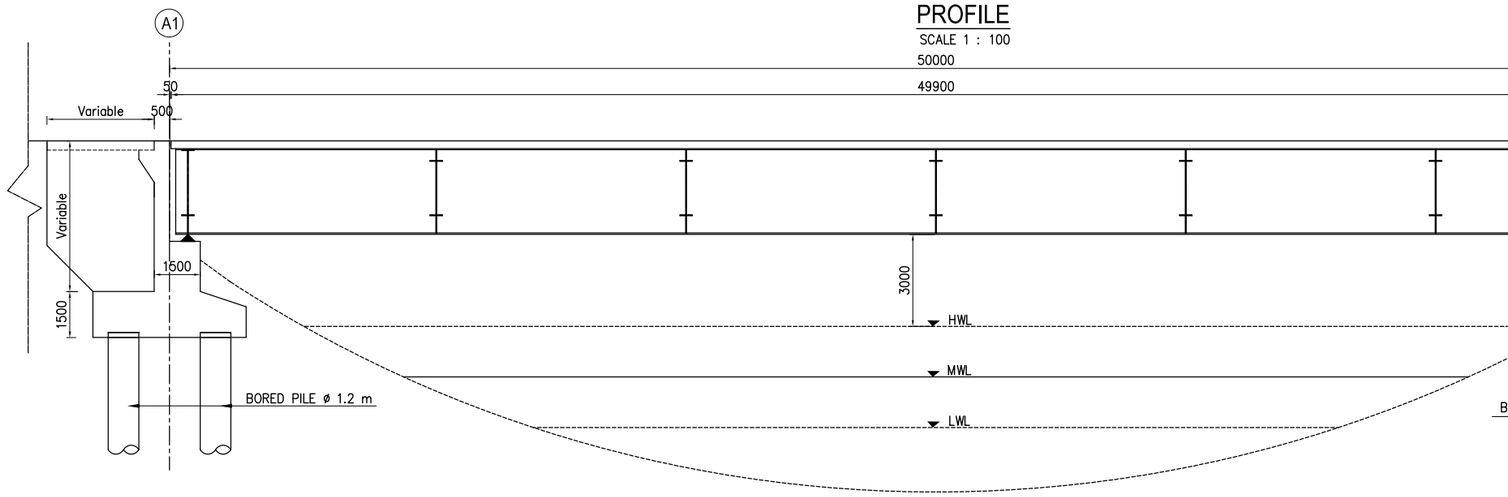
MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT	DESIGNED BY: / CHECKED BY: / APPROVED BY:
	No / REVISION / DATE	General View of Steel-I Girder Type-1:L=40m, W=10.4m (W=9.8m)	DWG. NO. GV-9

General View of Steel-I Girder

Type-2:L=50m, W=10.4m (W=9.8m)

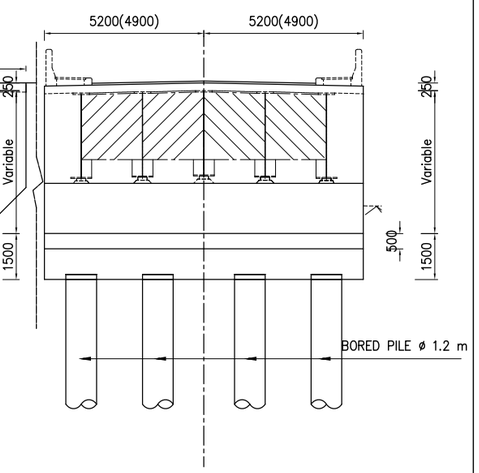
PROFILE

SCALE 1 : 100



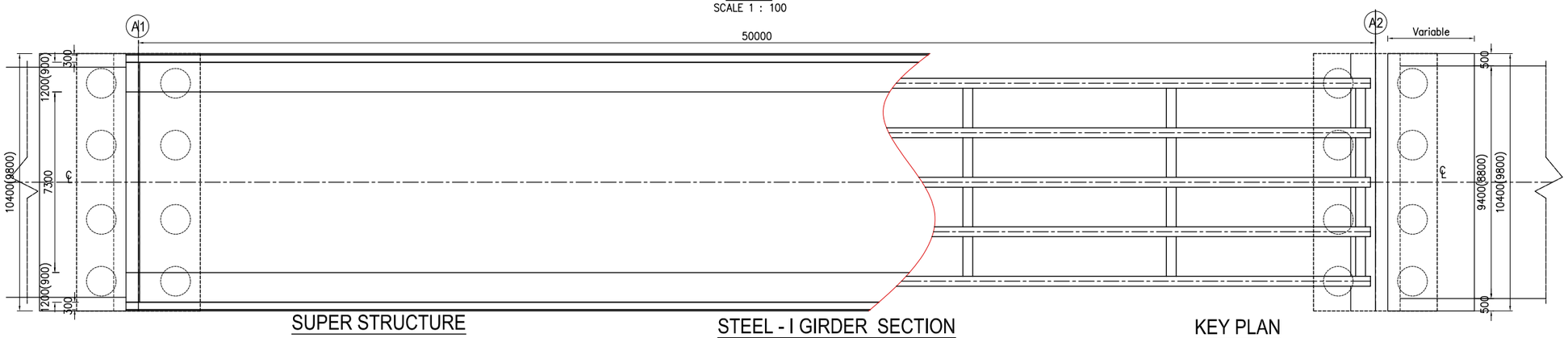
SUB STRUCTURE

SCALE 1 : 100



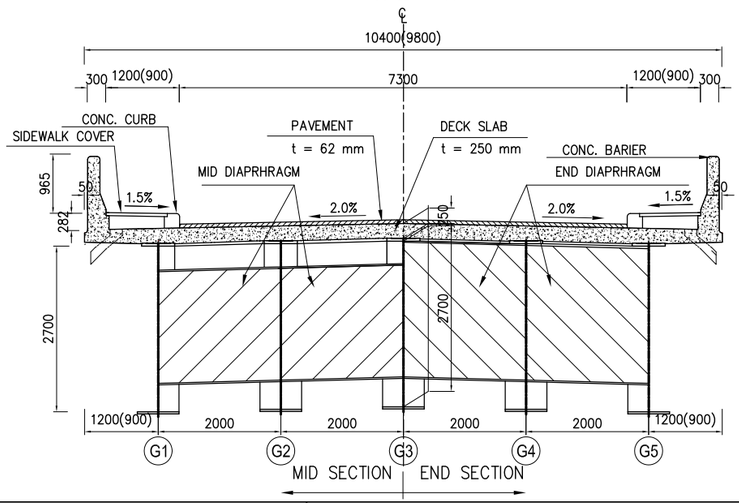
PLAN

SCALE 1 : 100



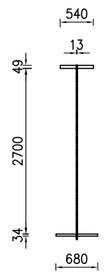
SUPER STRUCTURE

SCALE 1 : 50

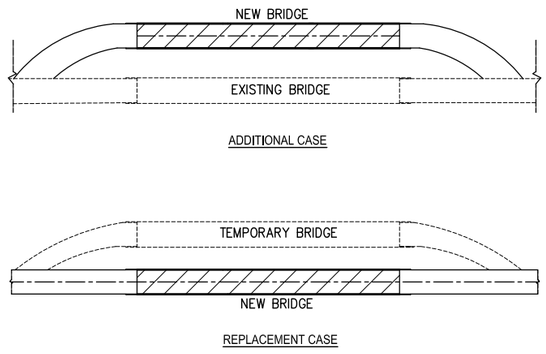


STEEL - I GIRDER SECTION

SCALE 1 : 50



KEY PLAN



Note:
The numerical value in parentheses shows Zilla Road.

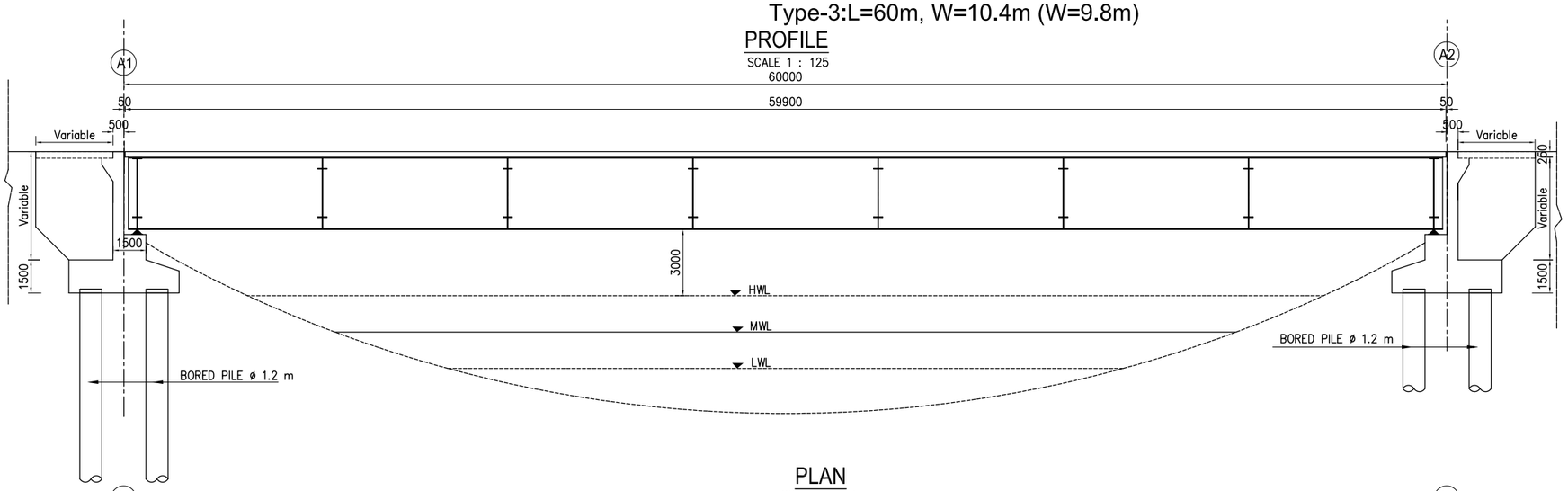
MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL	No	REVISION	DATE	PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT General View of Steel-I Girder Type-2:L=50m, W=10.4m (W=9.8m)	DESIGNED BY: CHECKED BY: APPROVED BY: DWG. NO. GV-10

General View of Steel-I Girder

Type-3:L=60m, W=10.4m (W=9.8m)

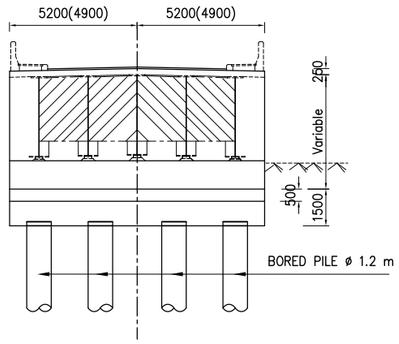
PROFILE

SCALE 1 : 125



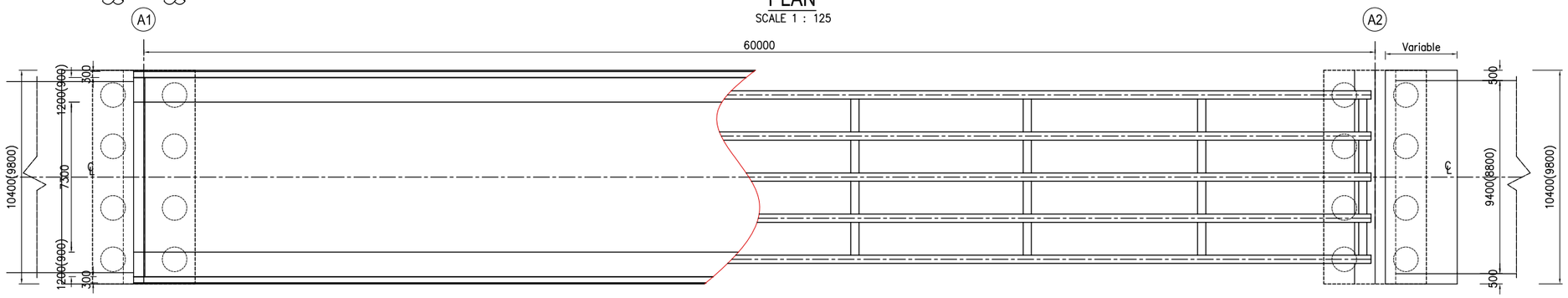
SUB STRUCTURE

SCALE 1 : 125



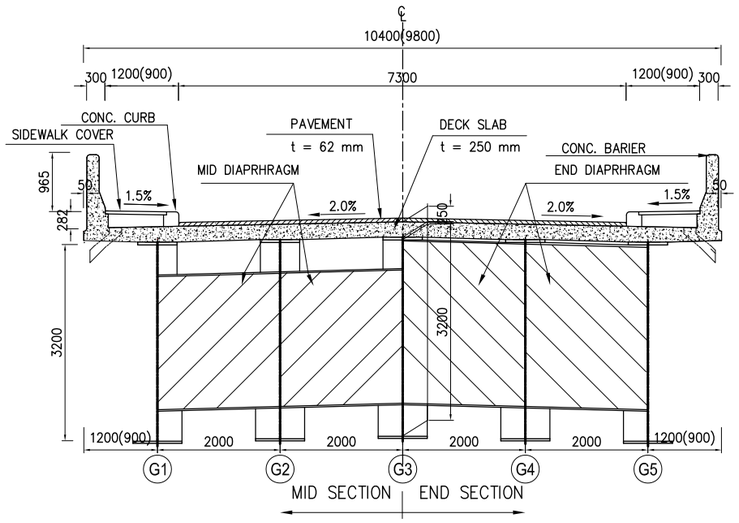
PLAN

SCALE 1 : 125



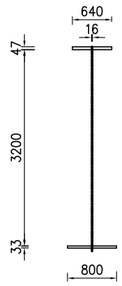
SUPER STRUCTURE

SCALE 1 : 50

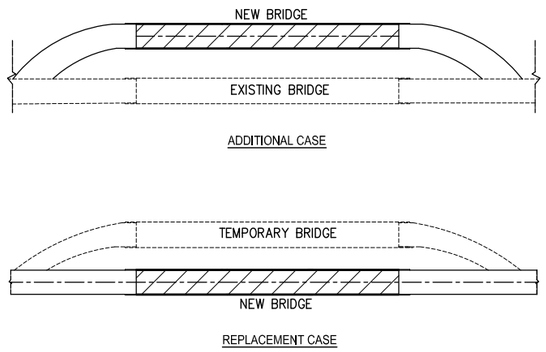


STEEL - I GIRDER SECTION

SCALE 1 : 50



KEY PLAN



Note:
The numerical value in parentheses shows Zilla Road.

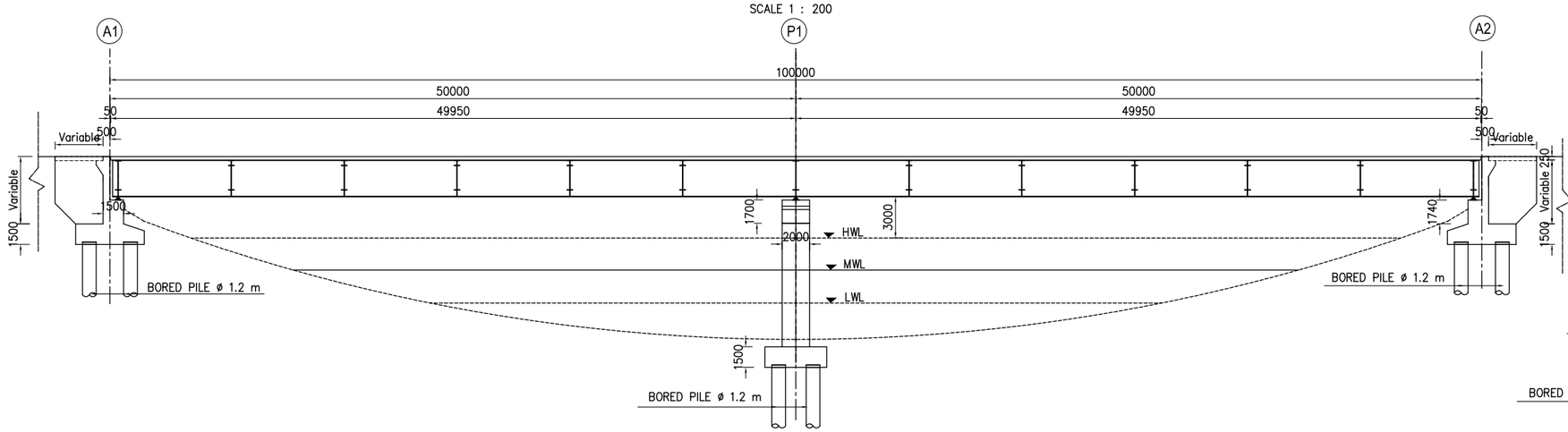
MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL			PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT	DESIGNED BY:
					CHECKED BY:
				General View of Steel-I Girder Type-3:L=60m, W=10.4m (W=9.8m)	APPROVED BY:
		No	REVISION / DATE		DWG. NO. GV-11

General View of Steel-I Girder

Type-5:L=100m (2@50m), W=10.4m (W=9.8m)

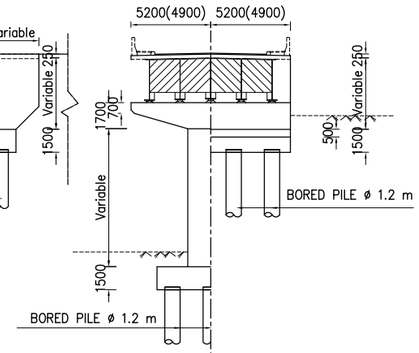
PROFILE

SCALE 1 : 200



SUB STRUCTURE

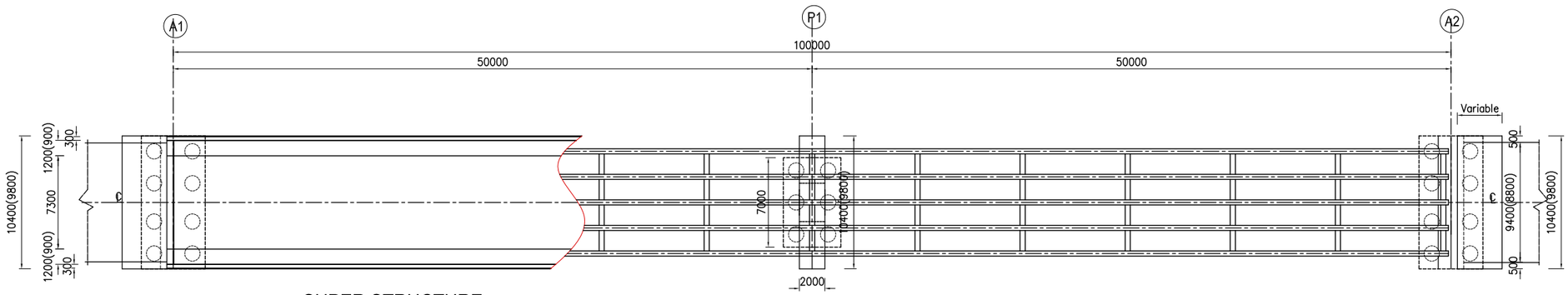
SCALE 1 : 200



PIER ABUTMENT

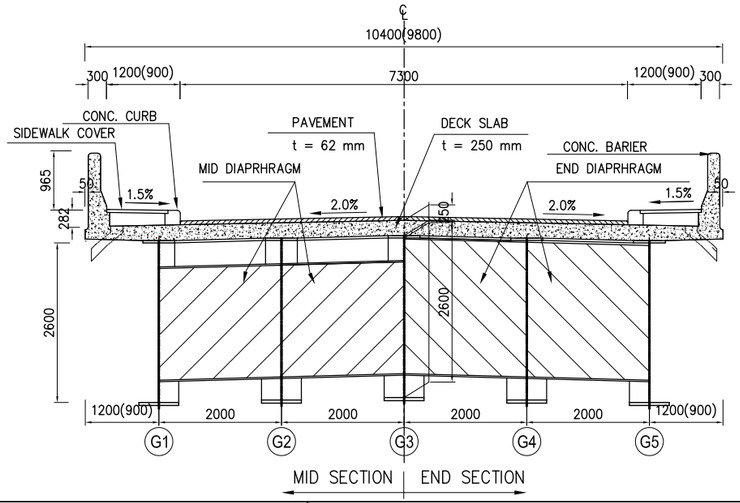
PLAN

SCALE 1 : 200



SUPER STRUCTURE

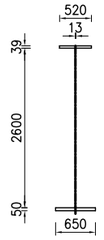
SCALE 1 : 50



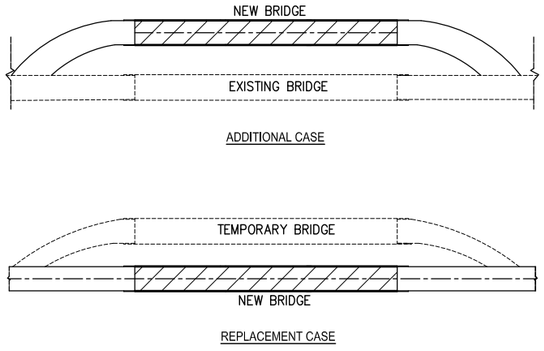
MID SECTION | END SECTION

STEEL - I GIRDER SECTION

SCALE 1 : 50



KEY PLAN



Note:
The numerical value in parentheses shows Zilla Road.

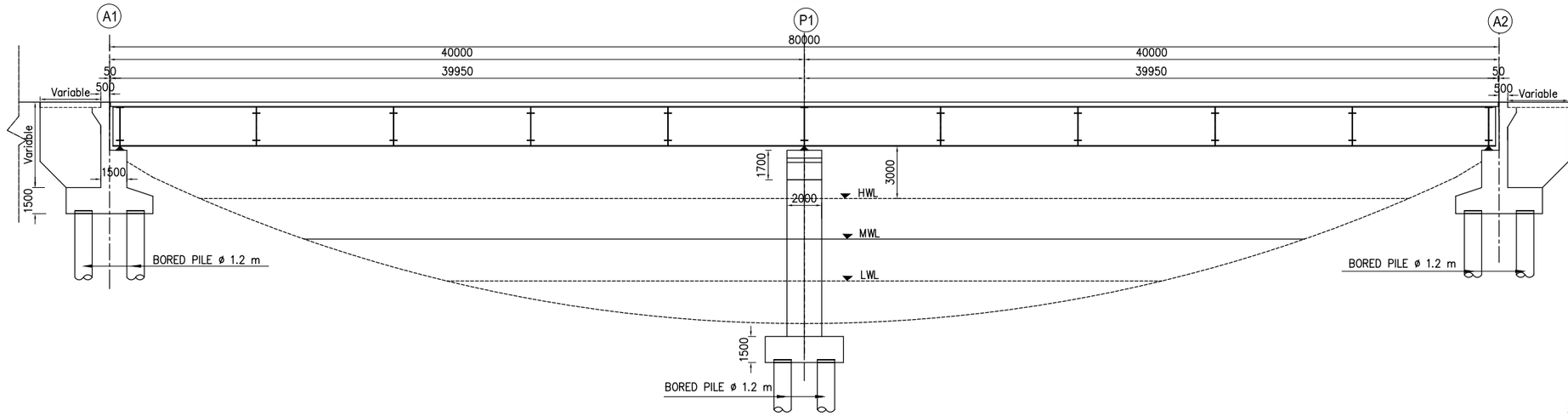
MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT	DESIGNED BY:
			CHECKED BY:
		General View of Steel-I Girder Type-5:L=100m (2@50m), W=10.4m (W=9.8m)	APPROVED BY:
	No REVISION DATE		DWG. NO. GV-12

General View of Steel-I Girder

Type-4:L=80m (2@40m), W=10.4m (W=9.8m)

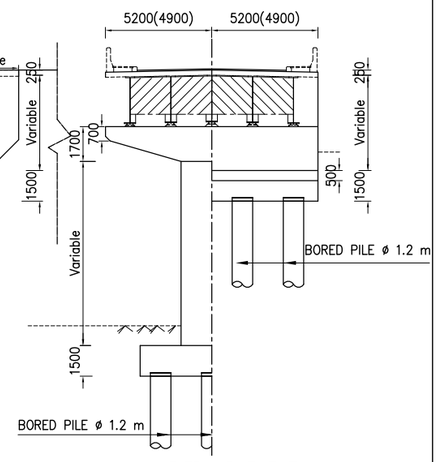
PROFILE

SCALE 1 : 150



SUB STRUCTURE

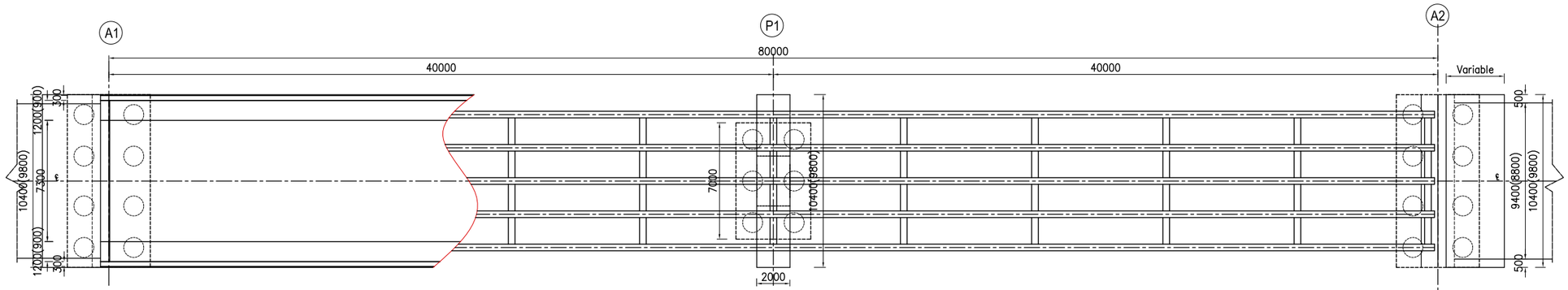
SCALE 1 : 150



PIER ABUTMENT

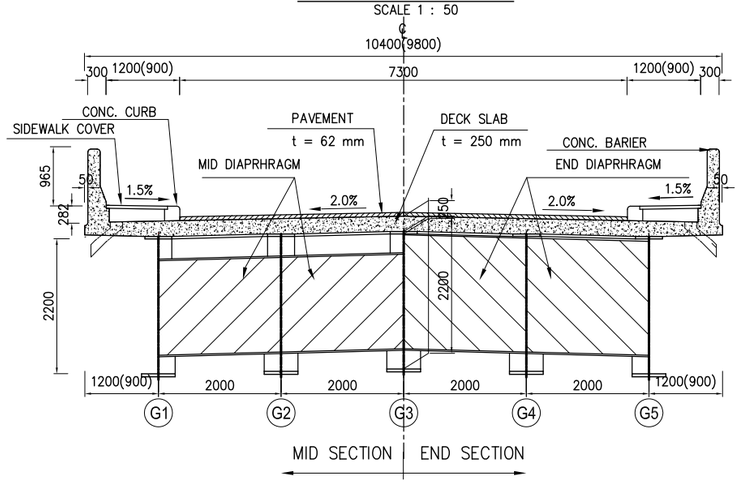
PLAN

SCALE 1 : 150



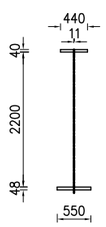
SUPER STRUCTURE

SCALE 1 : 50

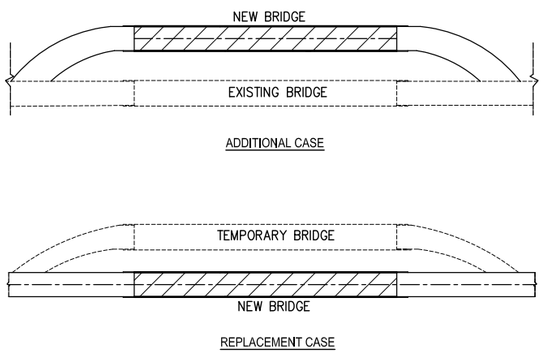


STEEL- I GIRDER SECTION

SCALE 1 : 50



KEY PLAN



Note:
The numerical value in parentheses shows Zilla Road.

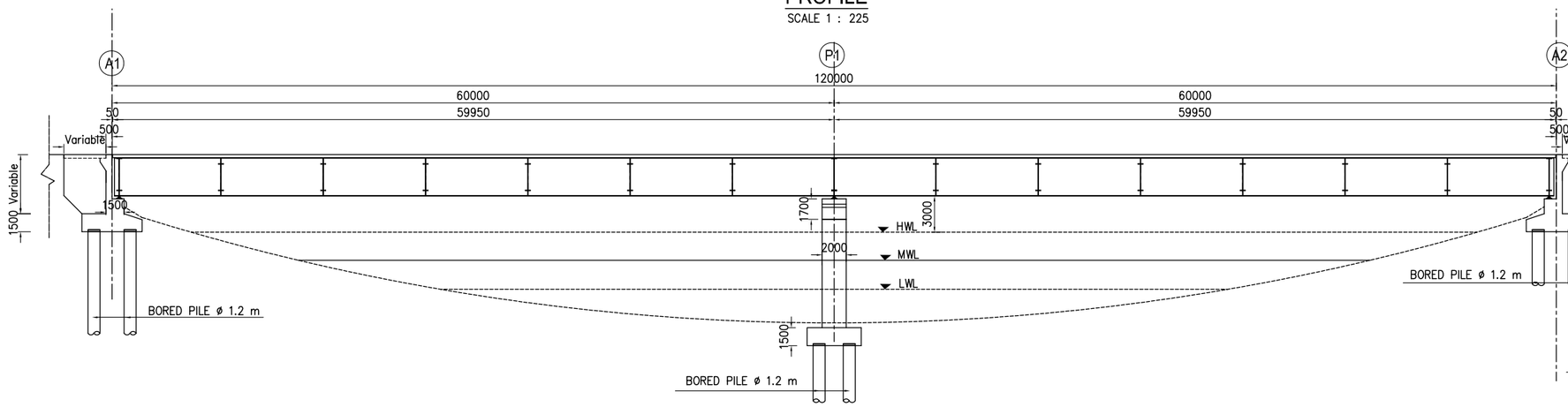
MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL			PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT	DESIGNED BY:
					CHECKED BY:
				General View of Steel-I Girder Type-4:L=80m (2@40m), W=10.4m (W=9.8m)	APPROVED BY:
		No	REVISION / DATE		DWG. NO. GV-13

General View of Steel-I Girder

Type-6:L=120m (2@60m), W=10.4m (W=9.8m)

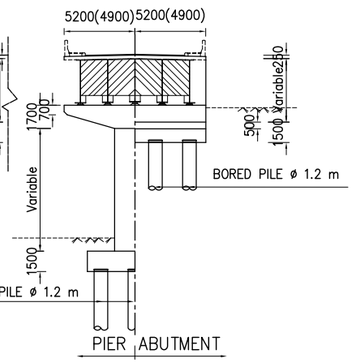
PROFILE

SCALE 1 : 225



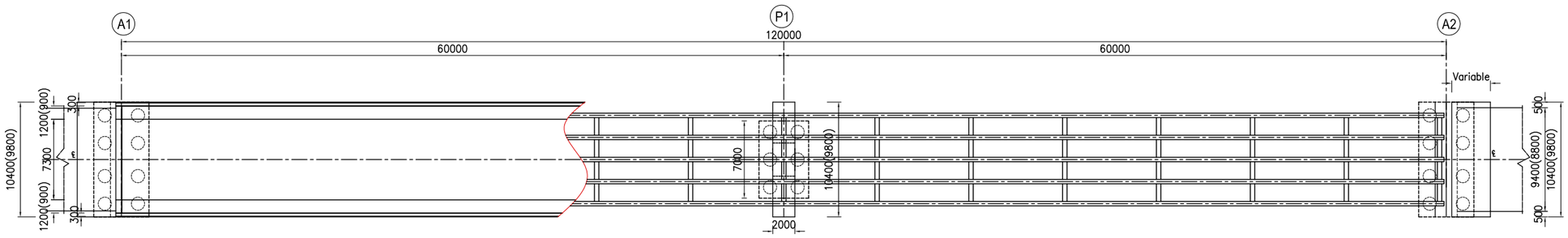
SUB STRUCTURE

SCALE 1 : 225



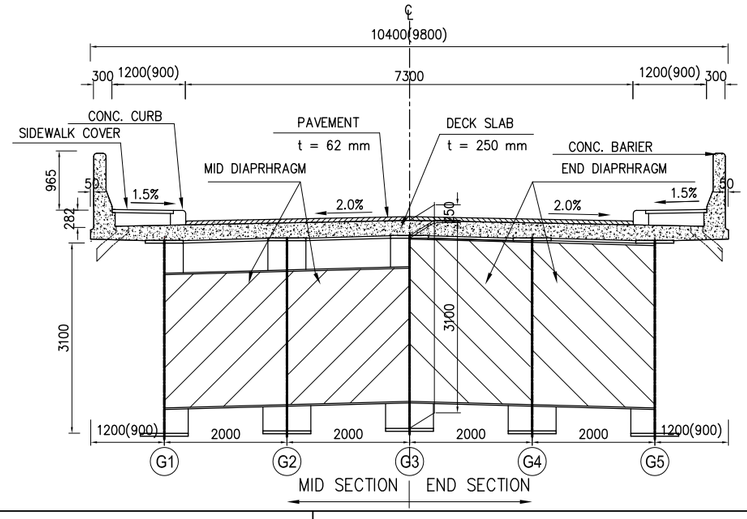
PLAN

SCALE 1 : 225



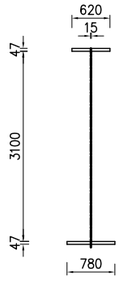
SUPER STRUCTURE

SCALE 1 : 50

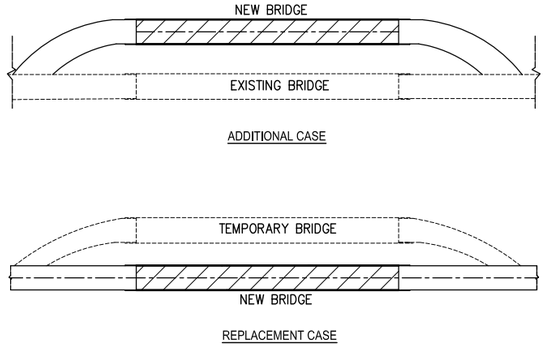


STEEL - I GIRDER SECTION

SCALE 1 : 50



KEY PLAN



Note:
The numerical value in parentheses shows Zilla Road.

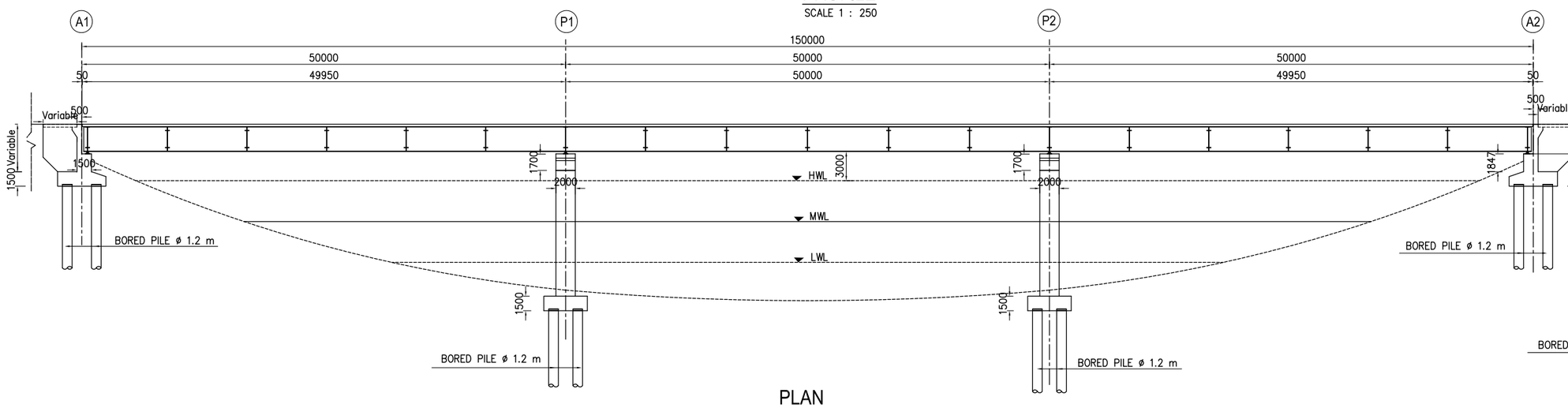
MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL	No	REVISION / DATE	PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT General View of Steel-I Girder Type-6:L=120m (2@60m), W=10.4m (W=9.8m)	DESIGNED BY: CHECKED BY: APPROVED BY: DWG. NO. GV-14

General View of Steel-I Girder

Type-7:L=150m (3@50m), W=10.4m (W=9.8m)

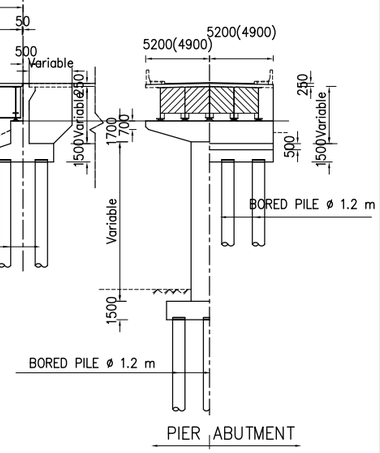
PROFILE

SCALE 1 : 250



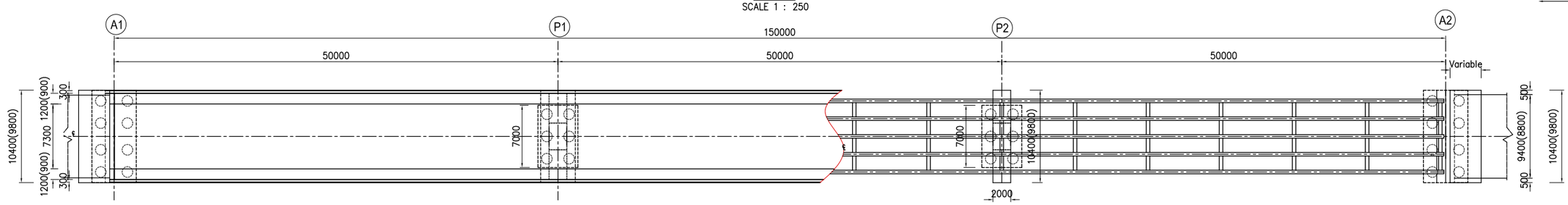
SUB STRUCTURE

SCALE 1 : 250



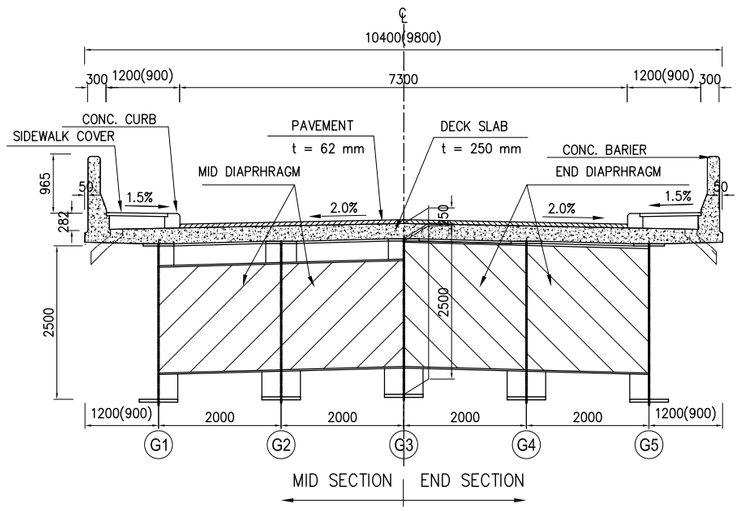
PLAN

SCALE 1 : 250



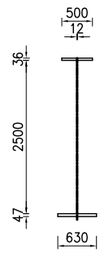
SUPER STRUCTURE

SCALE 1 : 50

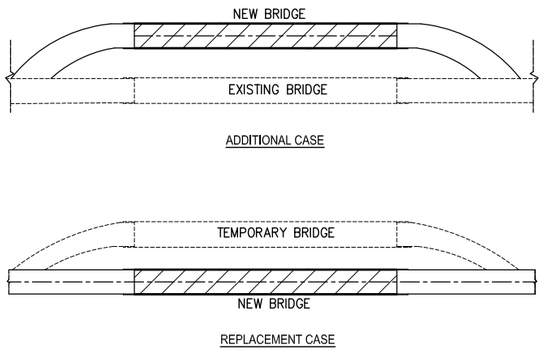


STEEL - I GIRDER SECTION

SCALE 1 : 50



KEY PLAN



Note:
The numerical value in parentheses shows Zilla Road.

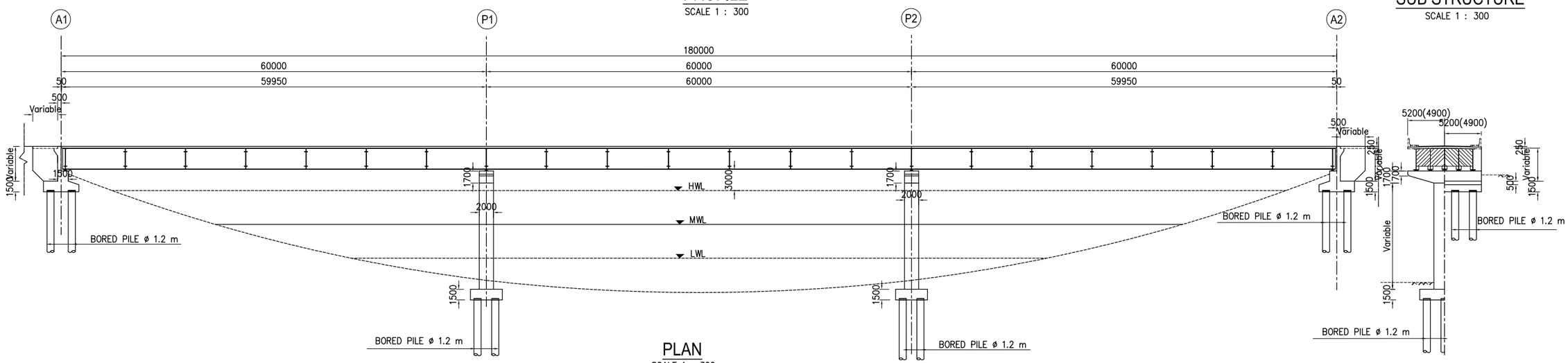
MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL			PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT	DESIGNED BY:
					CHECKED BY:
				General View of Steel-I Girder Type-7:L=150m (3@50m), W=10.4m (W=9.8m)	APPROVED BY:
		No	REVISION / DATE		DWG. NO. GV-15

General View of Steel-I Girder

Type-8:L=180m (3@60m), W=10.4m (W=9.8m)

PROFILE

SCALE 1 : 300

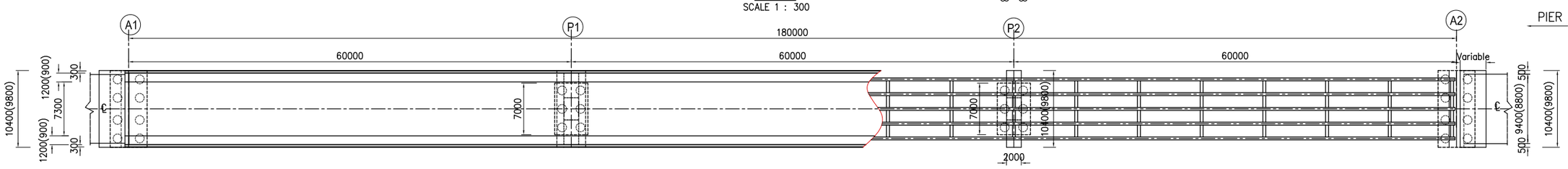


SUB STRUCTURE

SCALE 1 : 300

PLAN

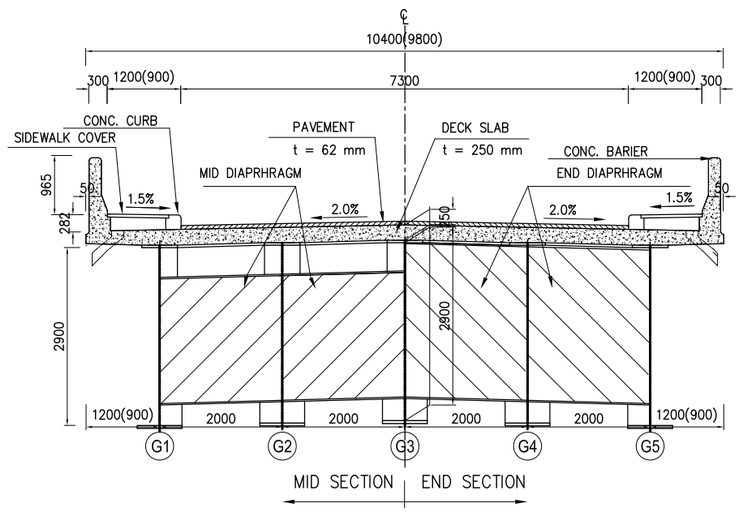
SCALE 1 : 300



PIER ABUTMENT

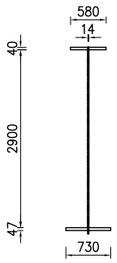
SUPER STRUCTURE

SCALE 1 : 50

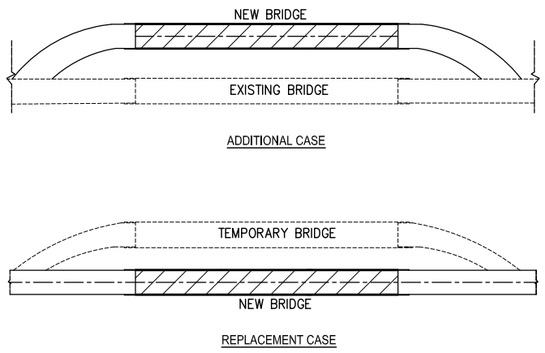


STEEL - I GIRDER SECTION

SCALE 1 : 50



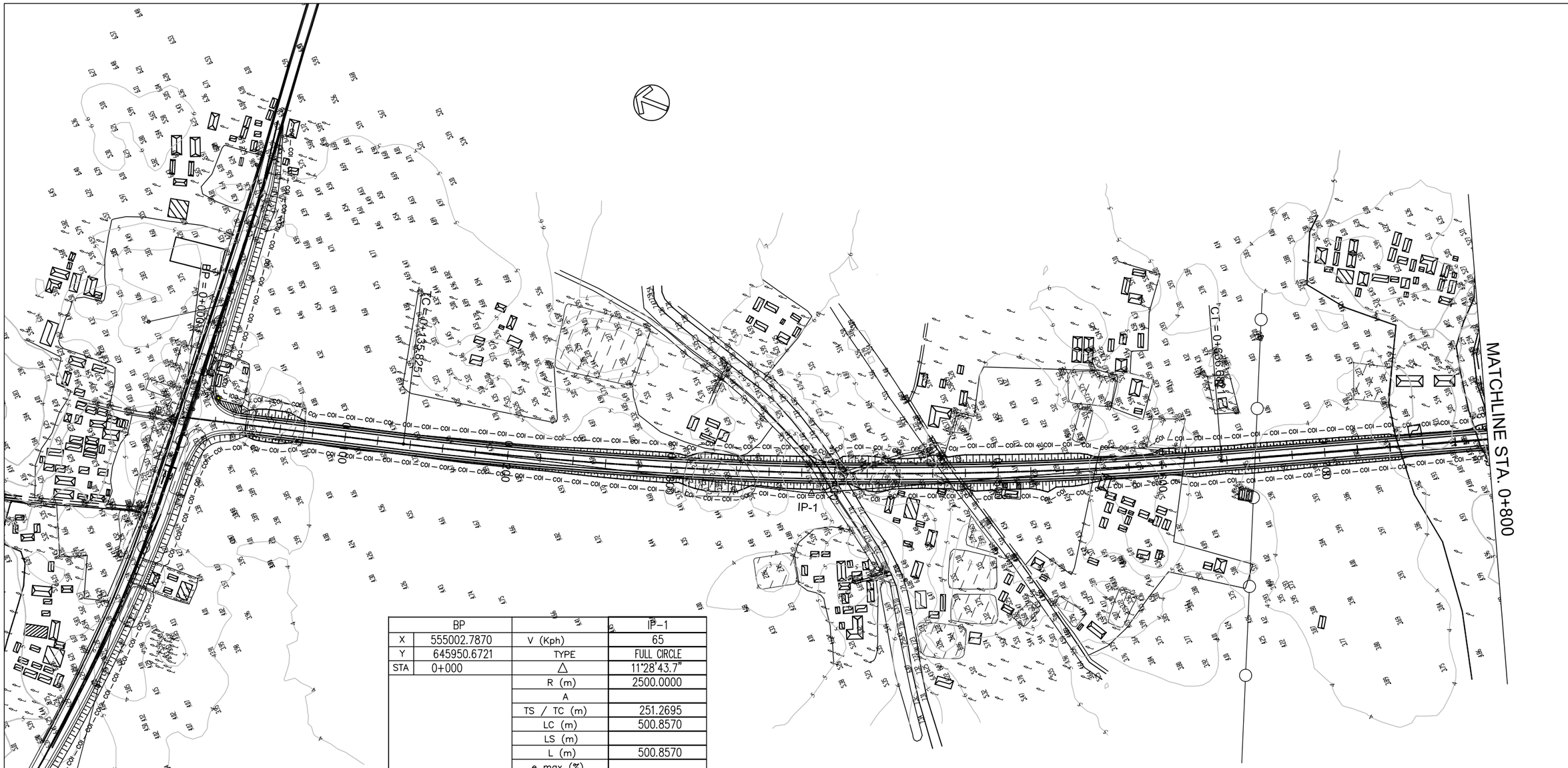
KEY PLAN



Note:
The numerical value in parentheses shows Zilla Road.

MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL			PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT	DESIGNED BY:
					CHECKED BY:
				General View of Steel-I Girder Type-8:L=180m (3@60m), W=10.4m (W=9.8m)	APPROVED BY:
		No	REVISION / DATE		DWG. NO. GV-16

D. EZ Bridge and Approach Road



BP			IP-1
X	555002.7870	V (Kph)	65
Y	645950.6721	TYPE	FULL CIRCLE
STA	0+000	△	11°28'43.7"
		R (m)	2500.0000
		A	
		TS / TC (m)	251.2695
		LC (m)	500.8570
		LS (m)	
		L (m)	500.8570
		e max (%)	
		PI E	555095.7931
		PI N	645574.9168
		TS/SS E	
		TS/SS N	
		TS/SS STA	
		SC/TC /CC E	555035.4213
		SC/TC /CC N	645818.8258
		SC/TC /CC STA	0+135.8251
		CS/CT /CC E	645347.9007
		CS/CT /CC N	555203.4966
		CS/CT /CC STA	0+636.6821
		ST/SS E	
		ST/SS N	
		ST/SS STA	
166°05'51.6"		AZIMUTH	154°37'08.0"

20 0 10 20 40 60 80 100

MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)
PEOPLE'S REPUBLIC OF BANGLADESH
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

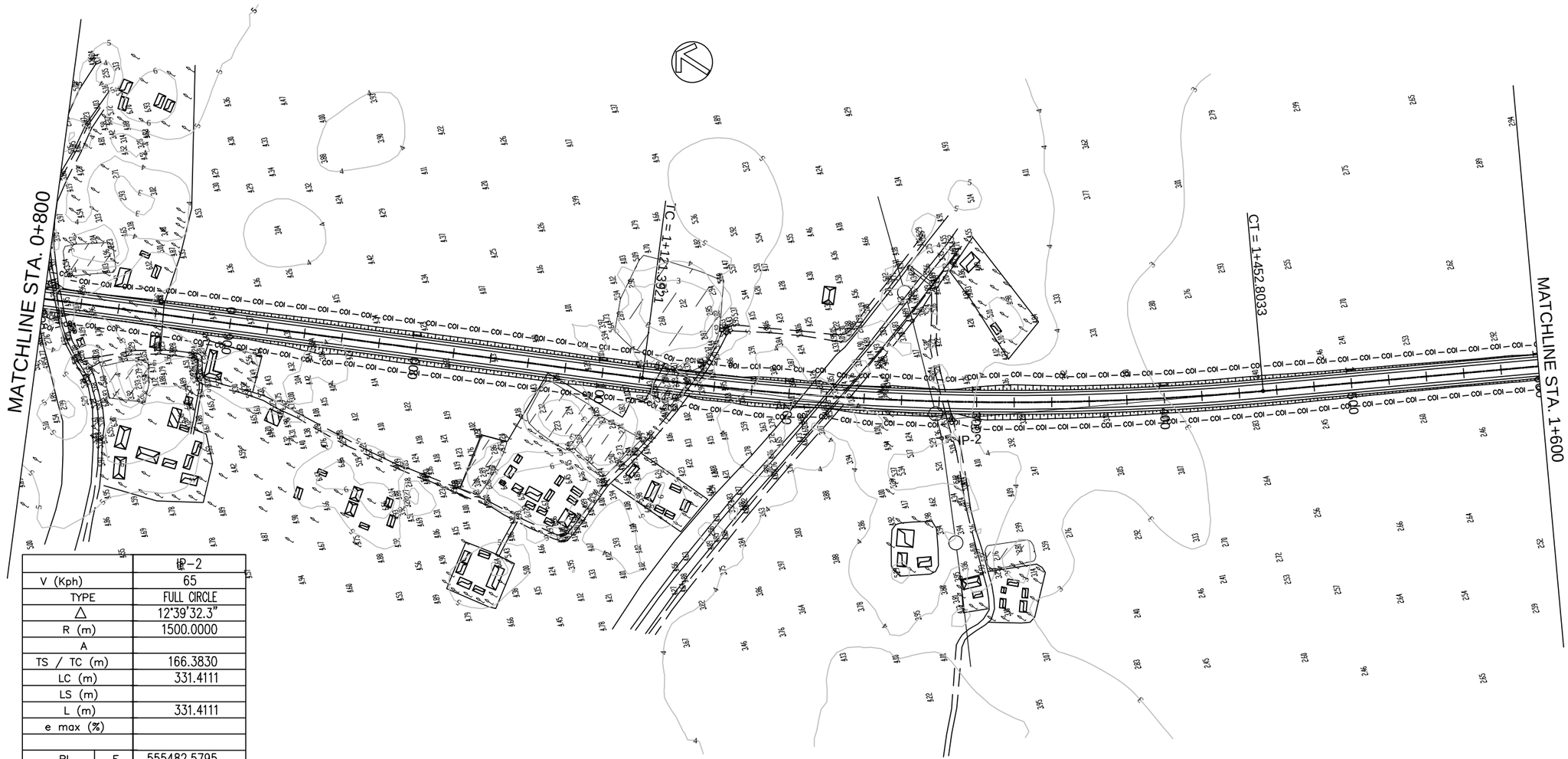
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
KATAHIRA & ENGINEERS INTERNATIONAL

No	REVISION	DATE

PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT

P L A N (1)
0+000 ~ 0+800

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	EZ-1



		SP-2
V (Kph)		65
TYPE		FULL CIRCLE
△		12°39'32.3"
R (m)		1500.0000
A		
TS / TC (m)		166.3830
LC (m)		331.4111
LS (m)		
L (m)		331.4111
e max (%)		
PI	E	555482.5795
	N	644759.6534
TS/SS	E	
	N	
	STA	
SC/TC /CC	E	555411.2615
	N	644909.9765
	STA	1+121.3921
CS/CT /CC	E	644628.6135
	N	555585.1067
	STA	1+452.8033
ST/SS	E	
	N	
	STA	
AZIMUTH		141°57'35.7"

MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)
PEOPLE'S REPUBLIC OF BANGLADESH
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD.
KATAHIRA & ENGINEERS INTERNATIONAL

No	REVISION	DATE

PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT

PLAN (2)
0+800 ~ 1+600

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	EZ-2

MATCHLINE STA. 1+600

MATCHLINE STA. 2+400

20 0 10 20 40 60 80 100

MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL				PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT	DESIGNED BY:	
						CHECKED BY:	
					P L A N (3) 1+600 ~ 2+400	APPROVED BY:	
		No	REVISION	DATE		DWG. NO.	EZ-3

		IP-3
V (Kph)		65
TYPE		SPIRAL-CIRCLE-SPIRAL
△		69°46'43.3"
R (m)		250.0000
A		150.0000 | 150.0000
TS / TC (m)		220.2251 | 220.2251
LC (m)		214.4671
LS (m)		90.0000 | 90.0000
L (m)		394.4670
e max (%)		
PI	E	556403.3442
	N	643582.8264
TS/SS	E	556267.6387
	N	643756.2712
	STA	2+560.4273
SC/TC /CC	E	556327.1615
	N	643688.9382
	STA	2+650.4273
CS/CT /CC	E	556525.9509
	N	643627.8944
	STA	2+864.8943
ST/SS	E	556613.0050
	N	643650.2170
	STA	2+954.8943
AZIMUTH		72°10'52.3"

MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)
PEOPLE'S REPUBLIC OF BANGLADESH
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD.
KATAHIRA & ENGINEERS INTERNATIONAL

No	REVISION	DATE

PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT

PLAN (4)
2+400 ~ 3+200

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	EZ-4

		IP-4		IP-5	
V (Kph)		65		65	
TYPE		SPIRAL-CIRCLE-SPIRAL		SPIRAL-CIRCLE-SPIRAL	
△		68°47'55.0"		81°36'45.4"	
R (m)		250.0000		250.0000	
A		100.0000	100.0000	100.0000	100.0000
TS / TC (m)		191.3524	191.3524	236.0681	236.0681
LC (m)		260.1905		316.1022	
LS (m)		40.0000	40.0000	40.0000	40.0000
L (m)		340.1910		396.1020	
e max (%)					
PI	E	557010.1692		557309.1360	
	N	643777.8762		643408.9490	
TS/SS	E	556827.9962		557160.5088	
	N	643719.3209		643592.3561	
	STA	3+180.7186		3+568.3448	
SC/TC /CC	E	556866.3793		557186.5048	
	N	643730.5384		643561.9703	
	STA	3+220.7186		3+608.3448	
CS/CT /CC	E	557104.6476		557477.3216	
	N	643659.5958		643509.7829	
	STA	3+480.9091		3+924.4470	
ST/SS	E	557130.6436		557512.2609	
	N	643629.2100		643529.2338	
	STA	3+520.9091		3+964.4470	
AZIMUTH		140°58'47.3"		59°22'01.9"	

MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)
PEOPLE'S REPUBLIC OF BANGLADESH
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

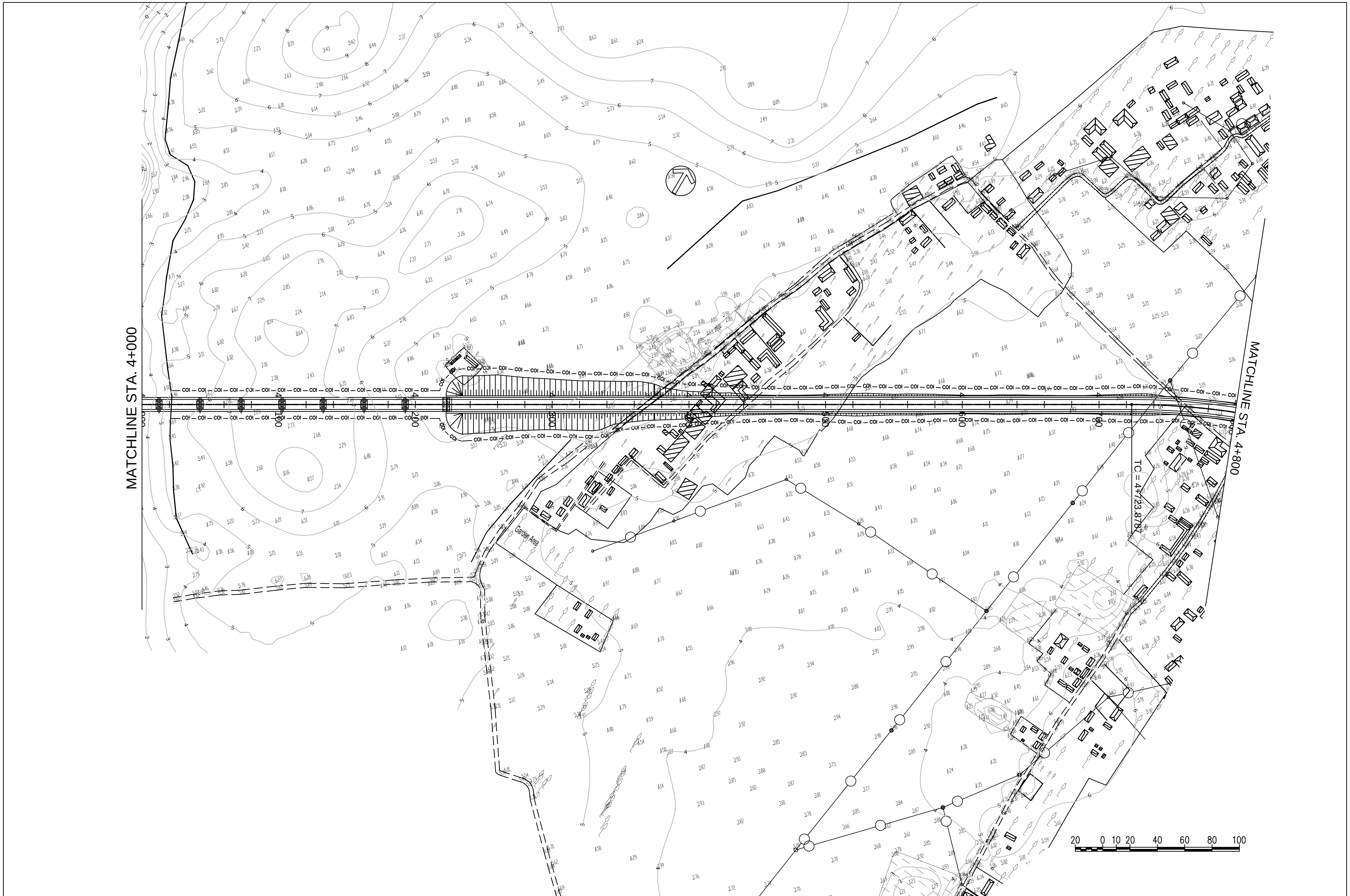
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
KATAHIRA & ENGINEERS INTERNATIONAL

No	REVISION	DATE

PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT

PLAN (5)
3+200 ~ 4+000

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	EZ-5



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL	

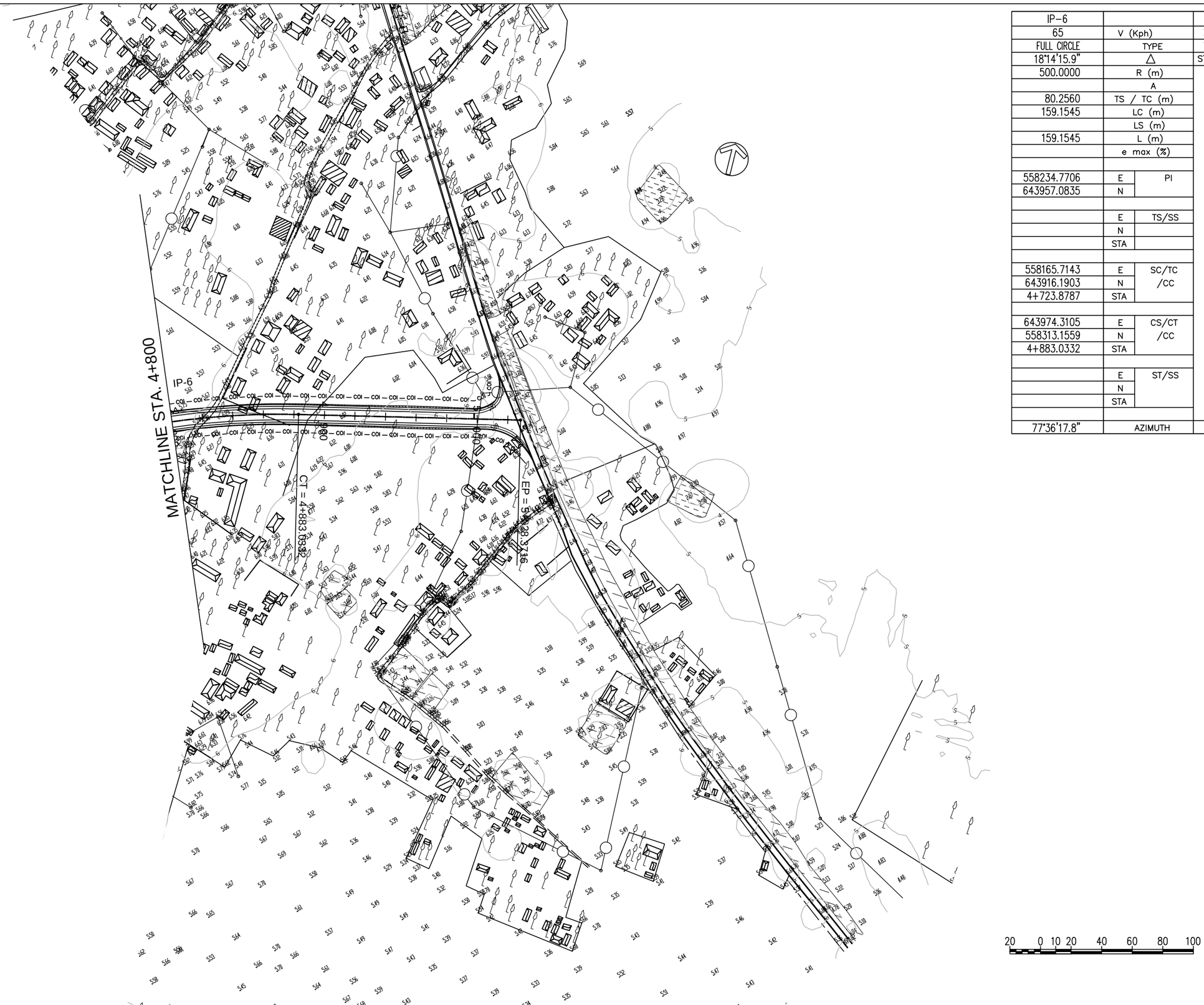
No	REVISION	DATE

PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT

P L A N (6)

4+000 ~ 4+800

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	EZ-6



IP-6			EP	
65	V (Kph)		X	558455.1066
FULL CIRCLE	TYPE		Y	644005.5076
18°14'15.9"	△		STA	5+028.3716
500.0000	R (m)			
	A			
80.2560	TS / TC (m)			
159.1545	LC (m)			
	LS (m)			
159.1545	L (m)			
	e max (%)			
558234.7706	E	PI		
643957.0835	N			
	E	TS/SS		
	N			
	STA			
558165.7143	E	SC/TC		
643916.1903	N	/CC		
4+723.8787	STA			
643974.3105	E	CS/CT		
558313.1559	N	/CC		
4+883.0332	STA			
	E	ST/SS		
	N			
	STA			
77°36'17.8"	AZIMUTH			

MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)
PEOPLE'S REPUBLIC OF BANGLADESH
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

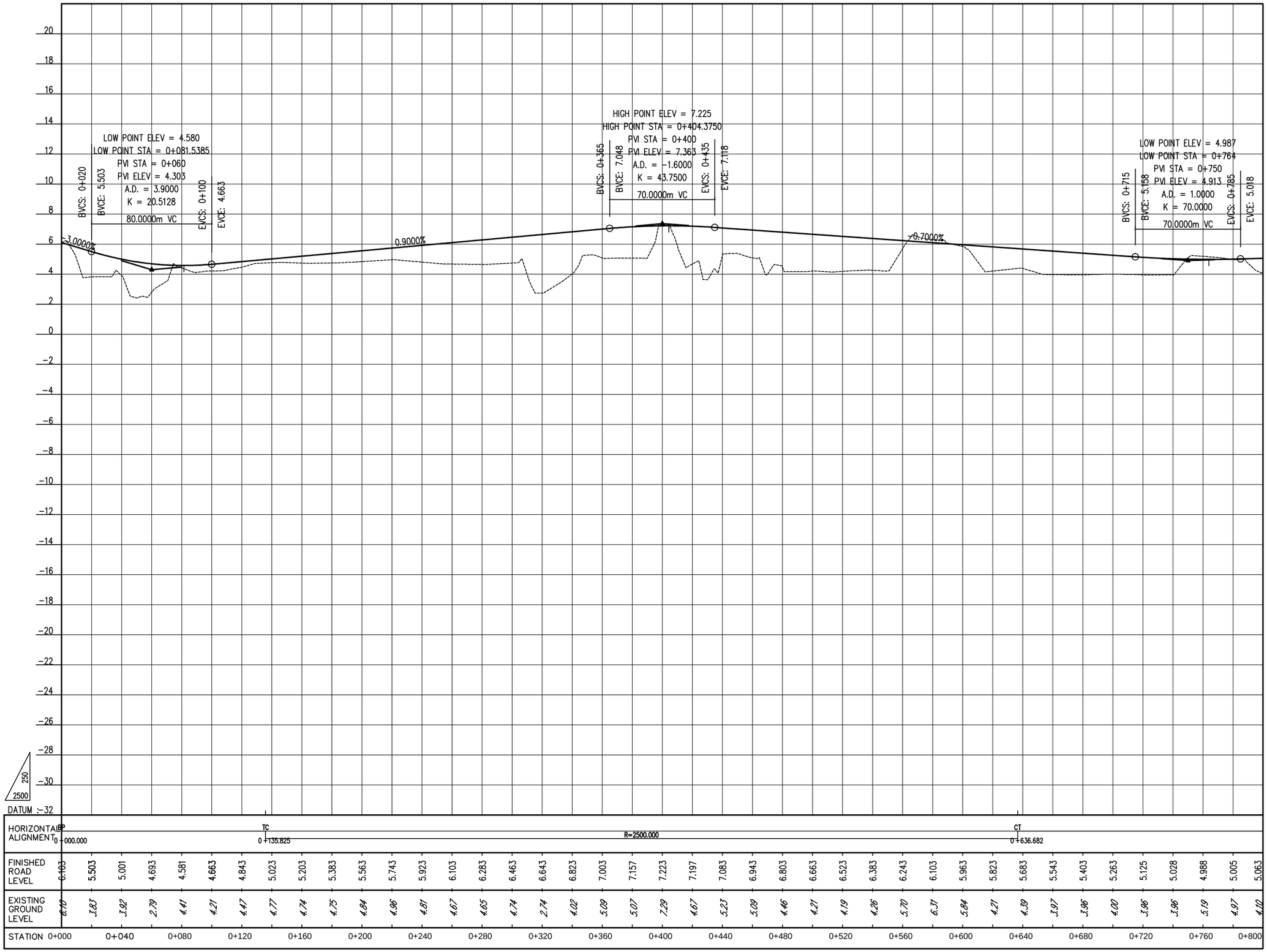
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
KATAHIRA & ENGINEERS INTERNATIONAL

No	REVISION	DATE

PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT

P L A N (7)
4+800 ~ 5+028

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	EZ-7



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)
PEOPLE'S REPUBLIC OF BANGLADESH
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

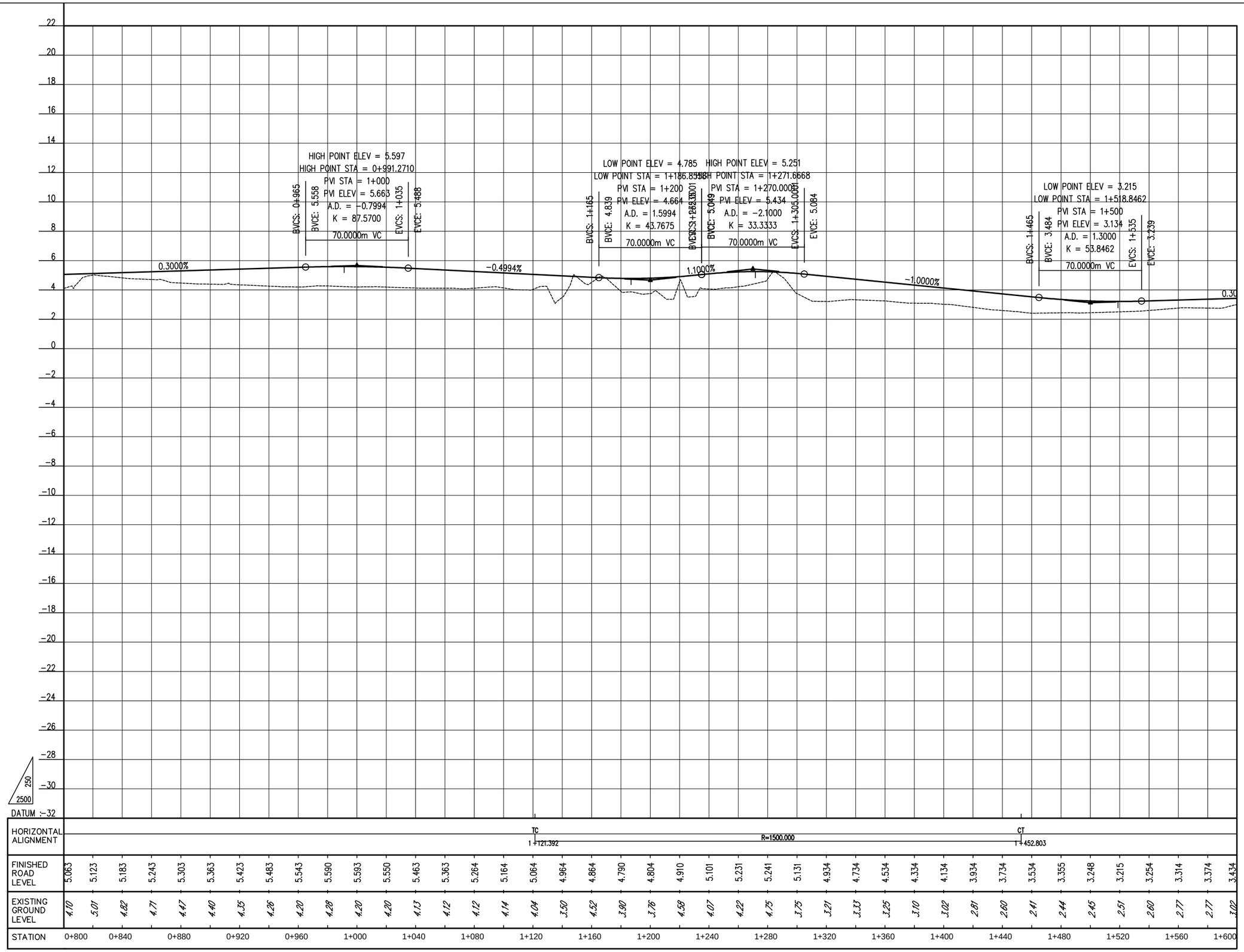
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
KATAHIRA & ENGINEERS INTERNATIONAL

No	REVISION	DATE

PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT

PROFILE (1)
0+000 ~ 0+800

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	EZ-8



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)
PEOPLE'S REPUBLIC OF BANGLADESH
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

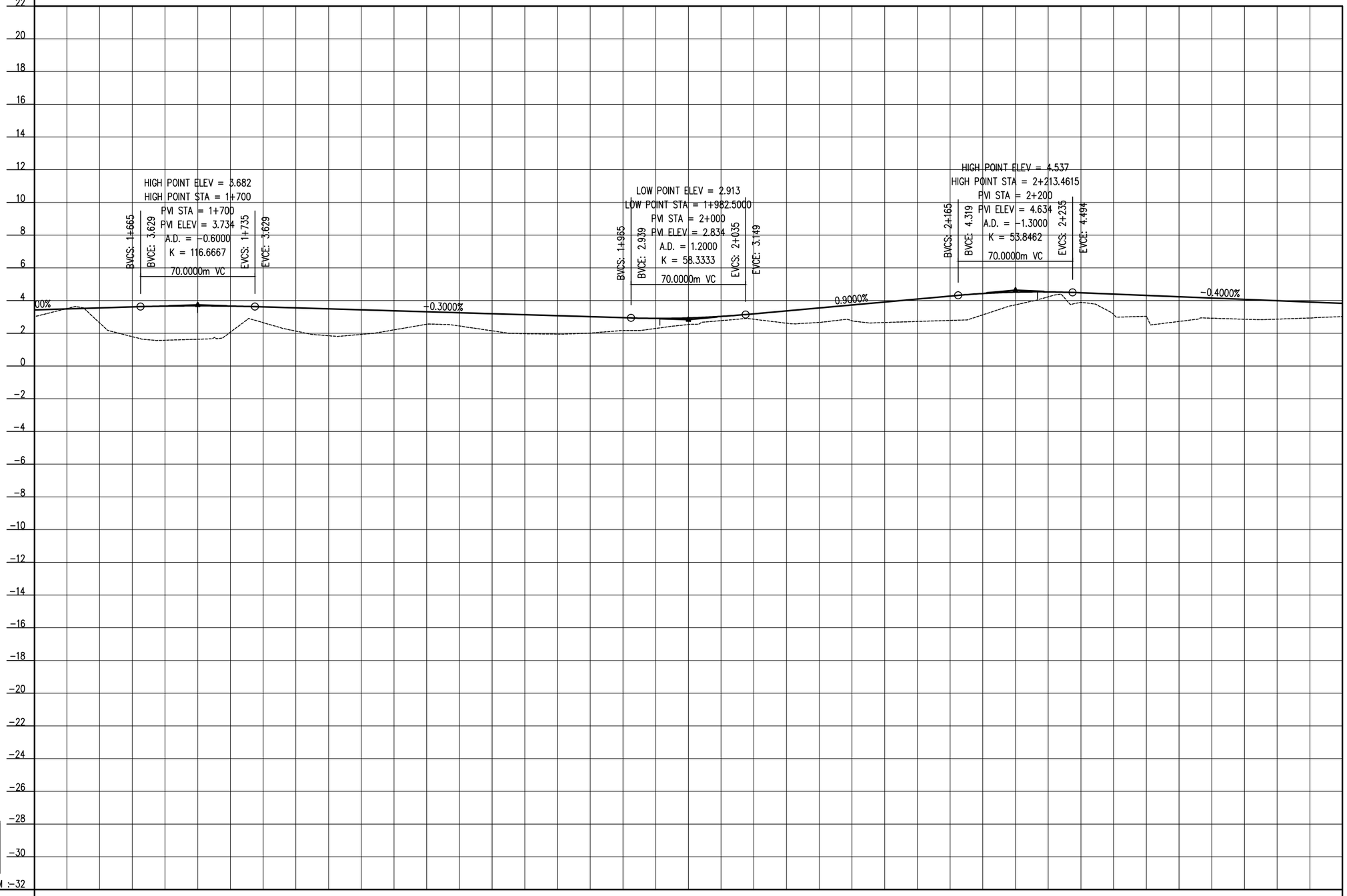
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
KATAHIRA & ENGINEERS INTERNATIONAL

No	REVISION	DATE

PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT

PROFILE (2)
0+800 ~ 1+600

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	EZ-9



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)
PEOPLE'S REPUBLIC OF BANGLADESH
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

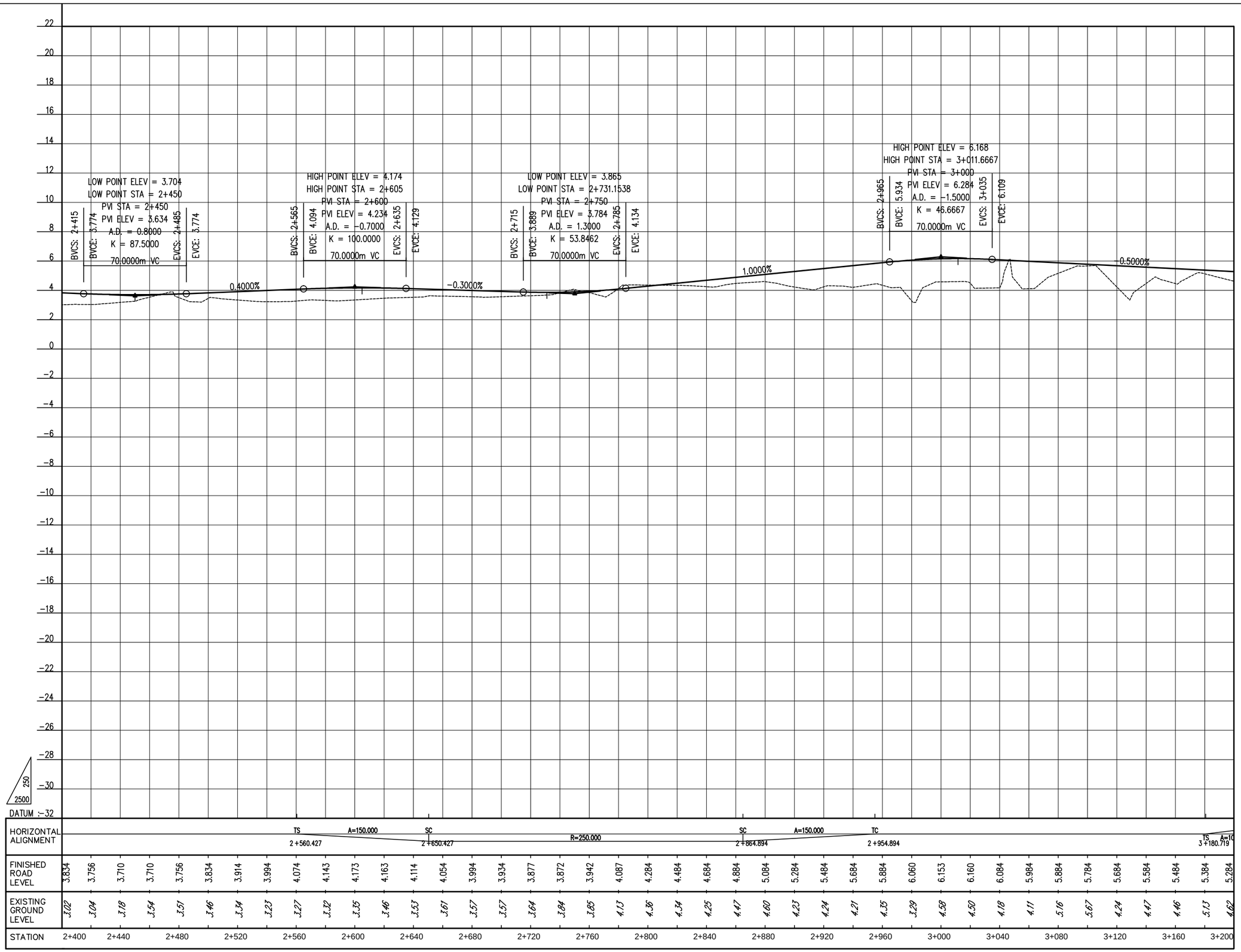
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
KATAHIRA & ENGINEERS INTERNATIONAL

No	REVISION	DATE

PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT

PROFILE (3)
1+600 ~ 2+400

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	EZ-10



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)
PEOPLE'S REPUBLIC OF BANGLADESH
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

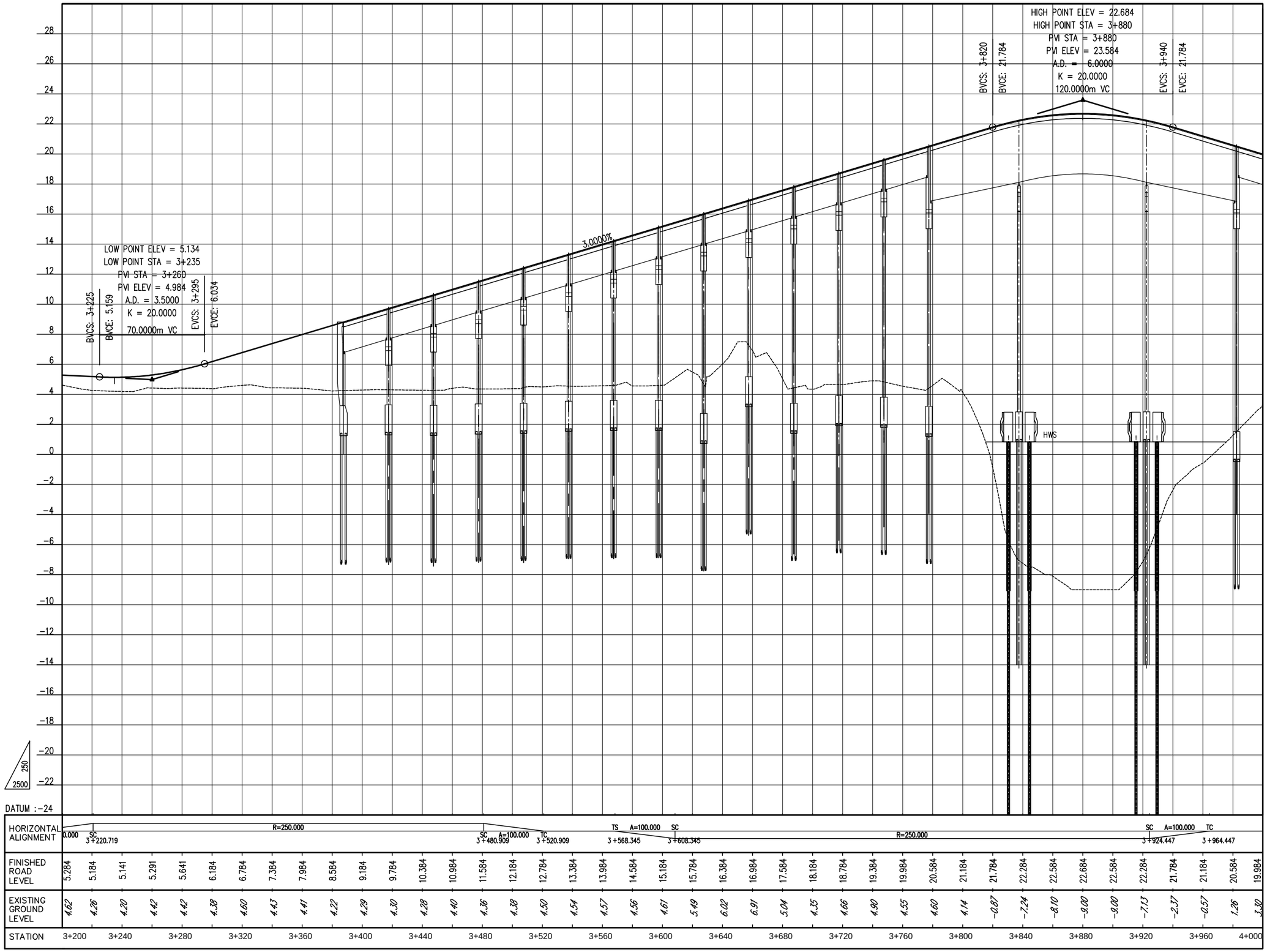
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
KATAHIRA & ENGINEERS INTERNATIONAL

No	REVISION	DATE

PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT

PROFILE (4)
2+400 ~ 3+200

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	EZ-11



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)
PEOPLE'S REPUBLIC OF BANGLADESH
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

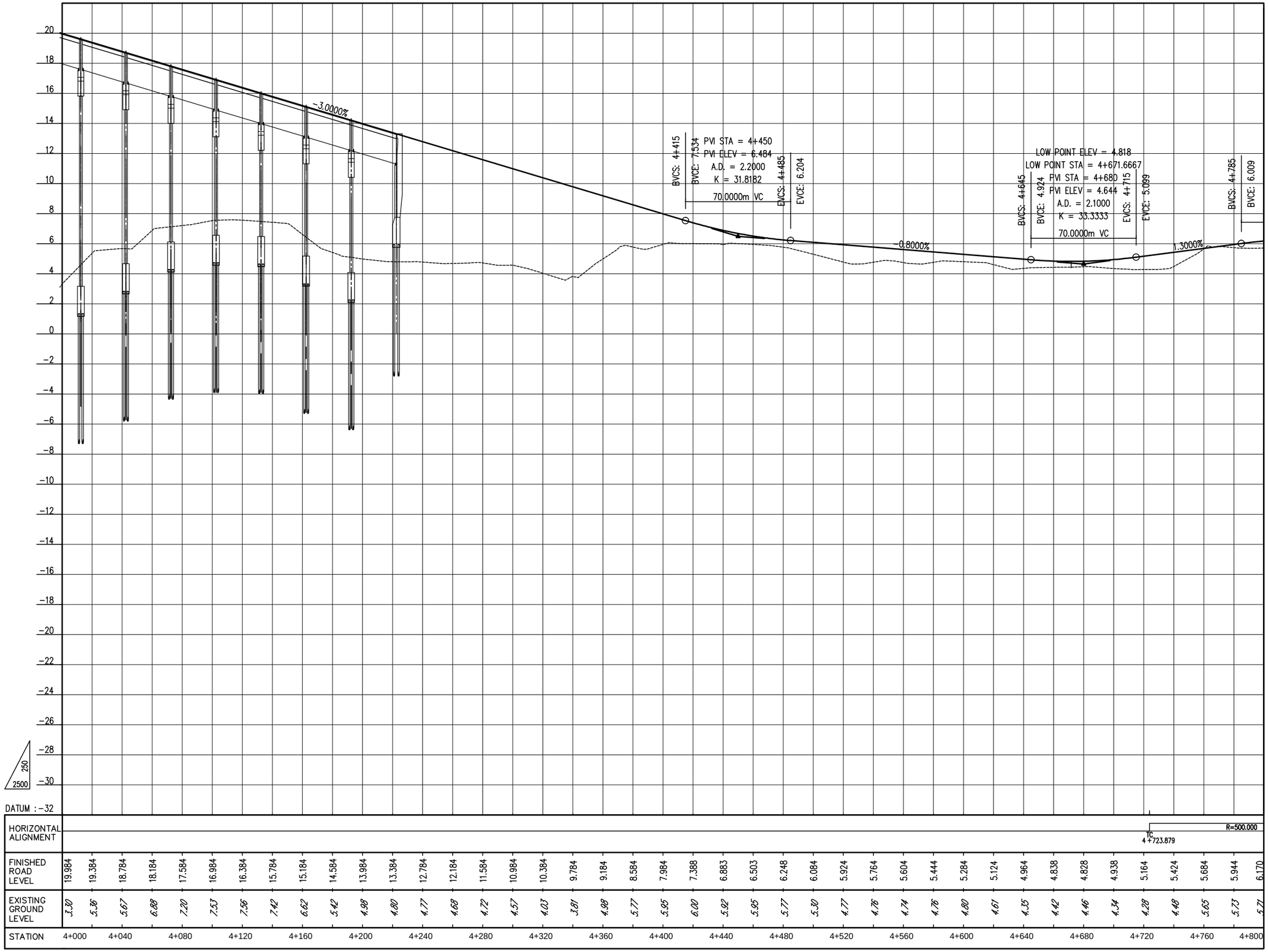
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
KATAHIRA & ENGINEERS INTERNATIONAL

No	REVISION	DATE

PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT

PROFILE (5)
3+200 ~ 4+000

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	EZ-12



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)
PEOPLE'S REPUBLIC OF BANGLADESH
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

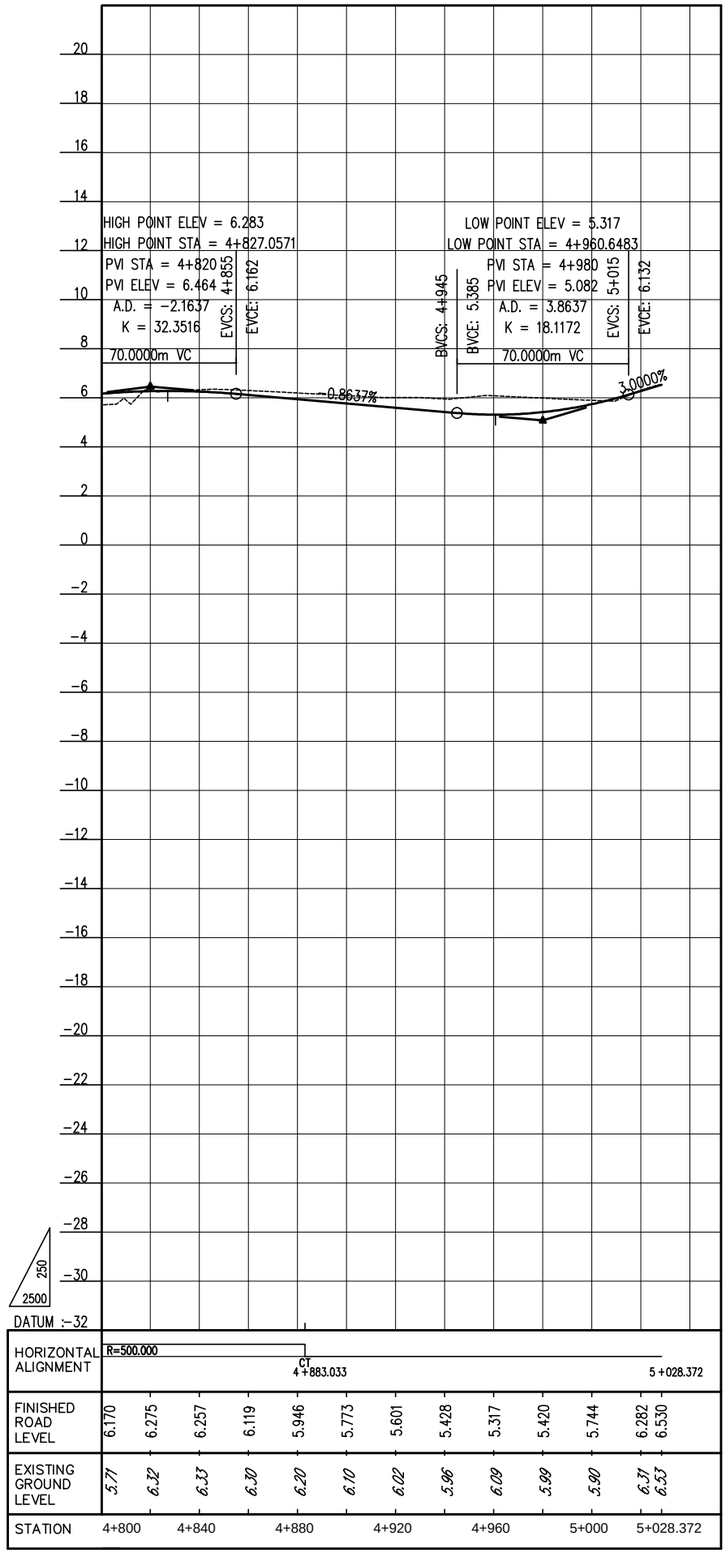
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
KATAHIRA & ENGINEERS INTERNATIONAL

No	REVISION	DATE

PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT

PROFILE (6)
4+000 ~ 4+800

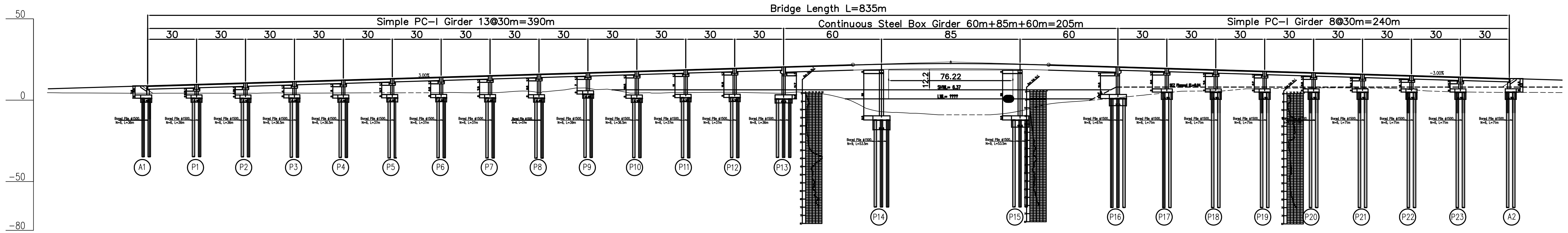
DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	EZ-13



MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL			PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT	DESIGNED BY:
					CHECKED BY:
				PROFILE (7) 4+800 ~ 5+028	APPROVED BY:
		No	REVISION / DATE		DWG. NO. EZ-14

General View of EZ Bridge

Profile S=1/800

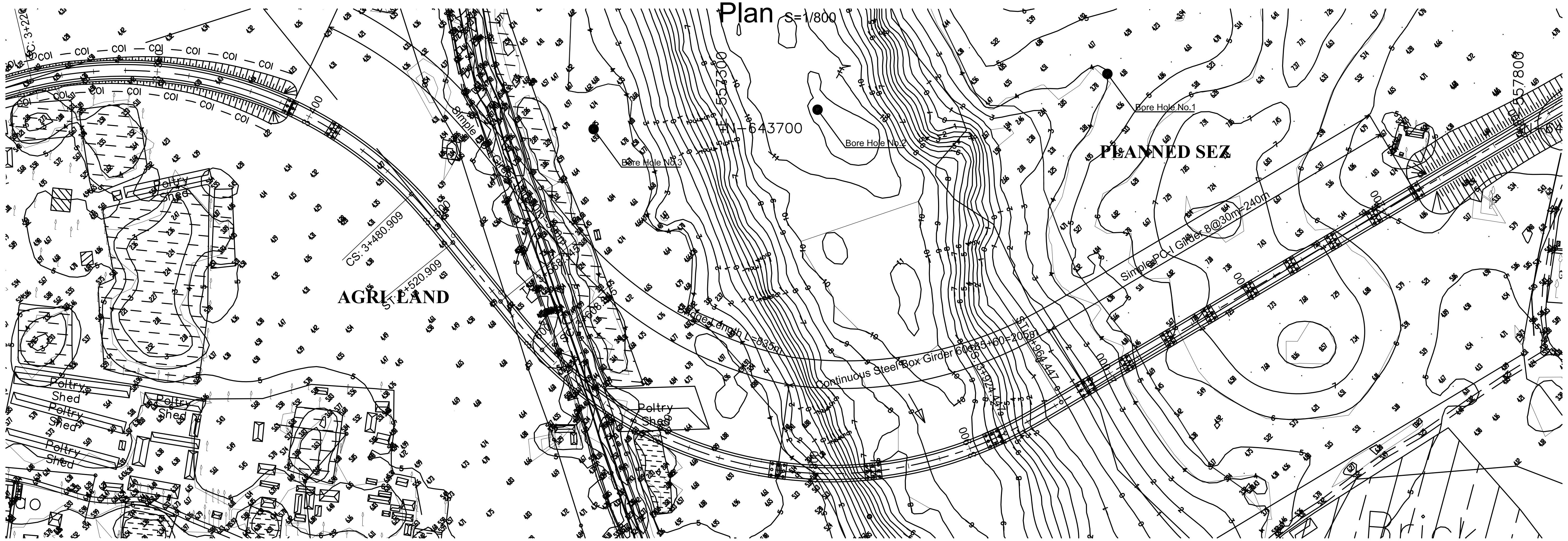


HORIZONTAL ALIGNMENT: R=250.00m; 3+480.909; A=100.00; 3+520.909; R= ∞; 3+568.345; A=100.00; 3+608.345; R=250.00m; 3+924.447; A=100.00; 3+964.447

FINISH GROUND	7.384	7.984	8.584	9.184	9.784	10.384	10.984	11.584	12.184	12.784	13.384	13.984	14.584	15.184	15.784	16.384	16.984	17.584	18.184	18.784	19.384	19.984	20.584	21.184	21.784	22.284	22.584	22.684	22.584	22.284	21.784	21.184	20.584	19.984	19.384	18.784	18.184	17.584	16.984	16.384	15.784	15.184	14.584	13.984	13.384	12.784
EXISTING GROUND	4.43	4.41	4.22	4.29	4.30	4.28	4.40	4.36	4.38	4.50	4.54	4.57	4.56	4.61	5.49	6.02	6.91	5.04	4.35	4.66	4.90	4.55	4.60	4.14	-0.87	-7.24	-8.10	-9.00	-9.00	-7.13	-2.37	-0.57	1.26	3.30	5.36	5.67	6.88	7.20	7.53	7.56	7.42	6.62	5.42	4.98	4.80	4.77

STATION: 3+387.5 (A1), 3+400, 3+417.5 (P1), 3+447.5 (P2), 3+477.5 (P3), 3+500, 3+507.5 (P4), 3+537.5 (P5), 3+567.5 (P6), 3+597.5 (P7), 3+600, 3+627.5 (P8), 3+657.5 (P9), 3+687.5 (P10), 3+700, 3+717.5 (P11), 3+747.5 (P12), 3+777.5 (P13), 3+800, 3+837.5 (P14), 3+900, 3+922.5 (P15), 3+982.5 (P16), 4+000, 4+012.5 (P17), 4+042.5 (P18), 4+072.5 (P19), 4+100, 4+102.5 (P20), 4+132.5 (P21), 4+162.5 (P22), 4+192.5 (P23), 4+200, 4+222.5 (A1)

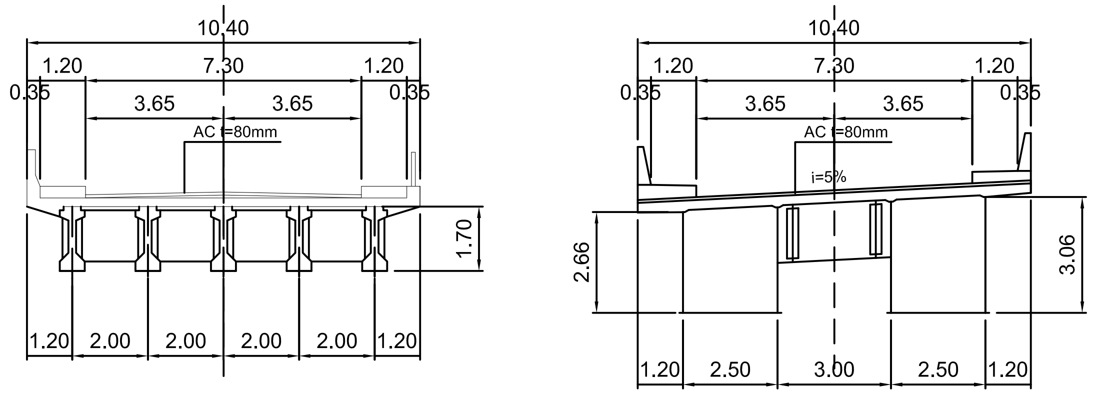
Plan S=1/800



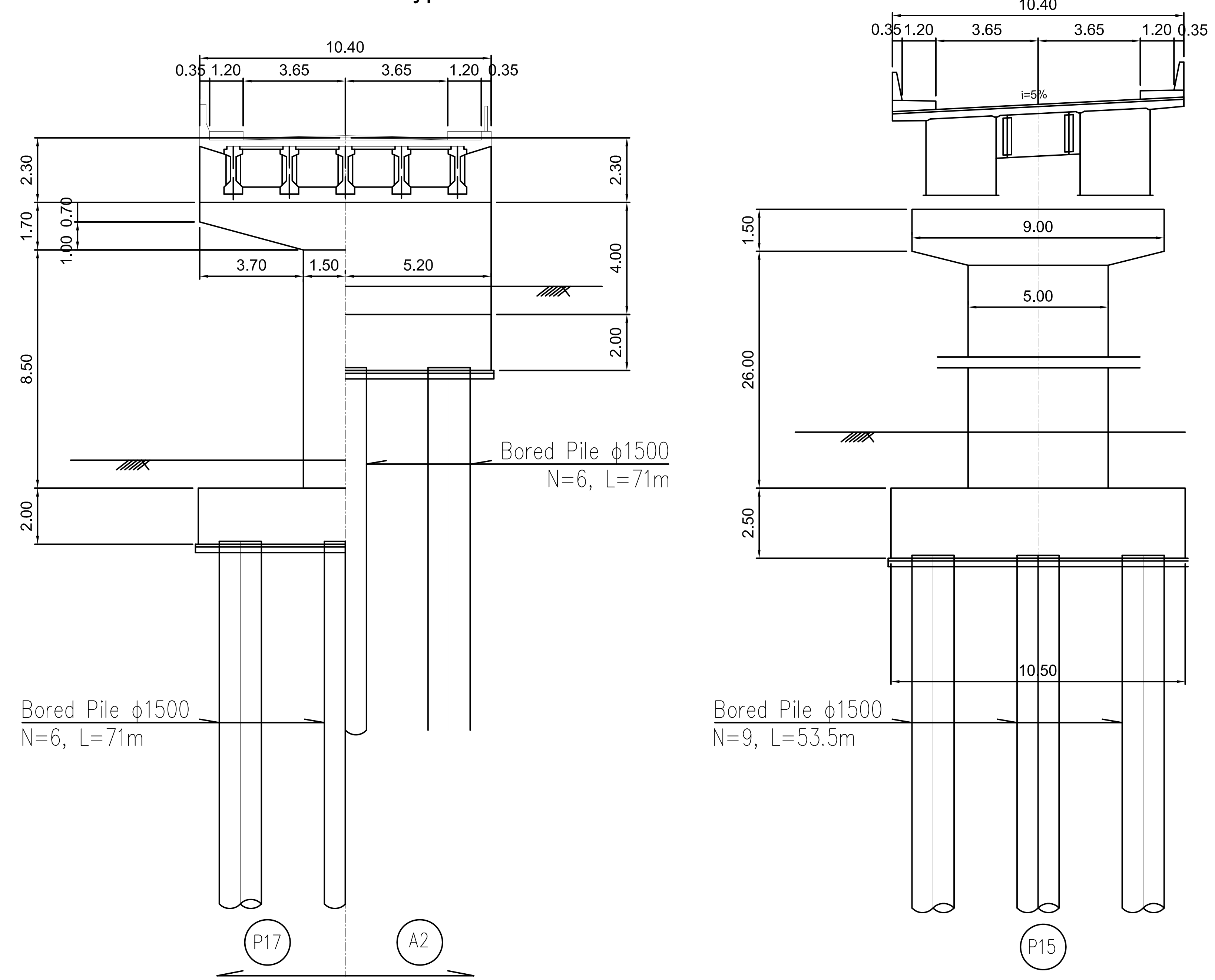
Typical Cross-section of Superstructure S=1/100

Approach Bridge (PC-I Girder : 30m)

Main Bridge (Steel Box Girder : 60m+85m+60m))



Typical Cross-section of Substructure S=1/100

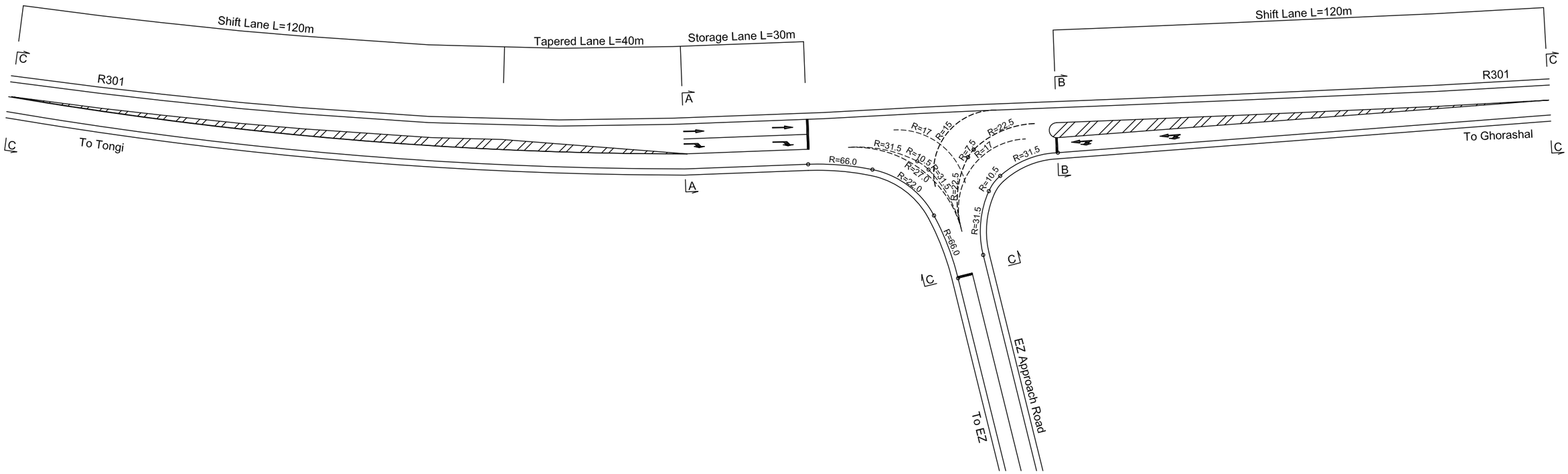


MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS GLOBAL CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL	No / REVISION / DATE	PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGE IMPROVEMENT PROJECT General View of EZ Bridge	DESIGNED BY: CHECKED BY: APPROVED BY: DWG. NO. EZ-15

Intersection Plan

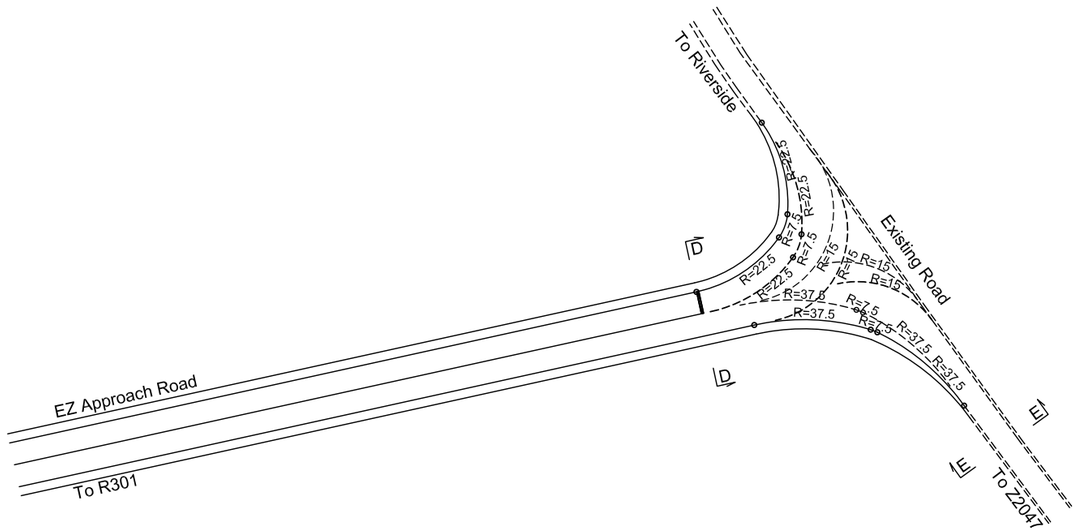
Plan for No.1 Intersection

Scale 1/1000



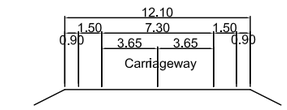
Plan for No.2 Intersection

Scale 1/1000

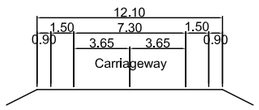


Cross Section

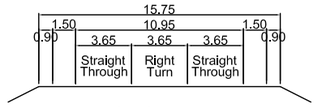
Scale 1/400



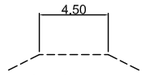
Section A-A



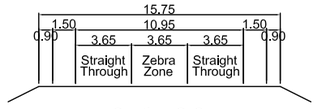
Section D-D



Section B-B



Section E-E



Section C-C

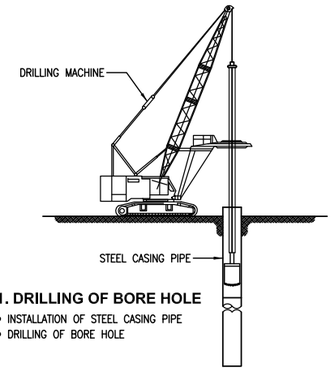
MINISTRY OF COMMUNICATION (MOC) PEOPLE'S REPUBLIC OF BANGLADESH ROADS & HIGHWAYS DEPARTMENT(RHD)	JAPAN INTERNATIONAL COOPERATION AGENCY ORIENTAL CONSULTANTS CO., LTD. KATAHIRA & ENGINEERS INTERNATIONAL	No	REVISION	DATE	PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGE IMPROVEMENT PROJECT Intersection Plan

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	EZ-16

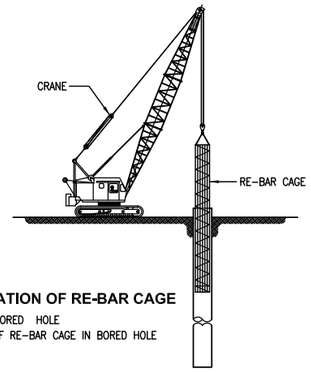
E. Construction Method

Construction Method

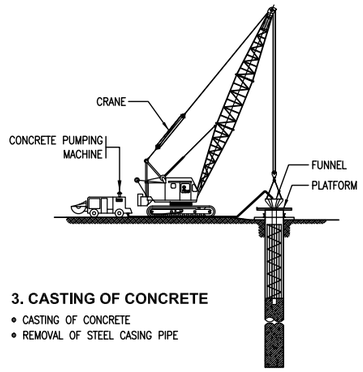
STEP 1: BORED PILE



1. DRILLING OF BORE HOLE
- INSTALLATION OF STEEL CASING PIPE
- DRILLING OF BORE HOLE



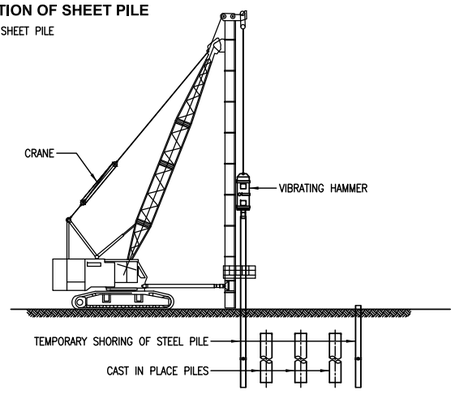
2. INSTALLATION OF RE-BAR CAGE
- CLEANING OF BORED HOLE
- INSTALLATION OF RE-BAR CAGE IN BORED HOLE



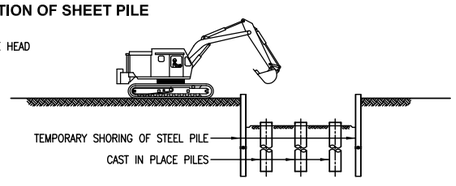
3. CASTING OF CONCRETE
- CASTING OF CONCRETE
- REMOVAL OF STEEL CASING PIPE

STEP 2: PILE CAP

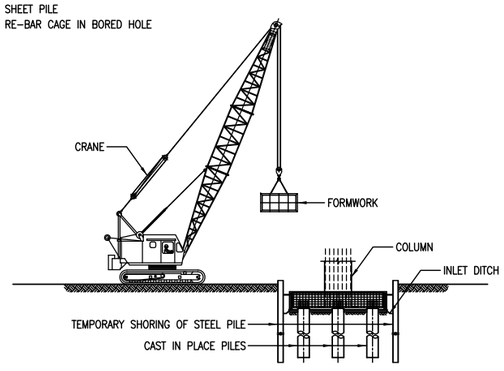
1. INSTALLATION OF SHEET PILE
- INSTALLATION OF SHEET PILE



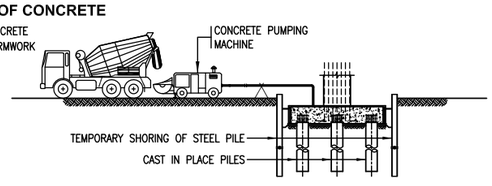
2. INSTALLATION OF SHEET PILE
- EXCAVATION
- CUT OFF OF PILE HEAD



3. INSTALLATION OF FORMWORK & REINFORCEMENT OF PILE CAP
- INSTALLATION OF SHEET PILE
- INSTALLATION OF RE-BAR CAGE IN BORED HOLE



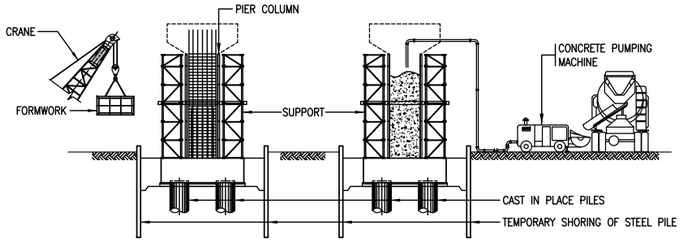
4. CASTING OF CONCRETE
- CASTING OF CONCRETE
- REMOVAL OF FORMWORK
- BACKFILLING



STEP 3: PIER

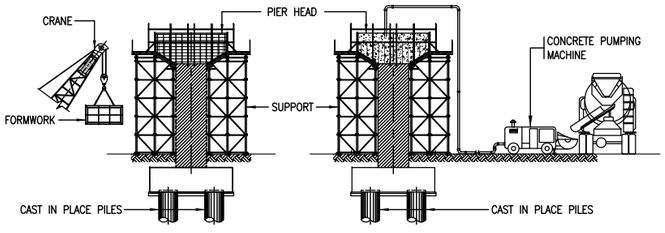
1. INSTALL OF FORMWORK & REINFORCEMENT OF PIER COLUMN

2. CASTING OF CONCRETE OF PIER COLUMN

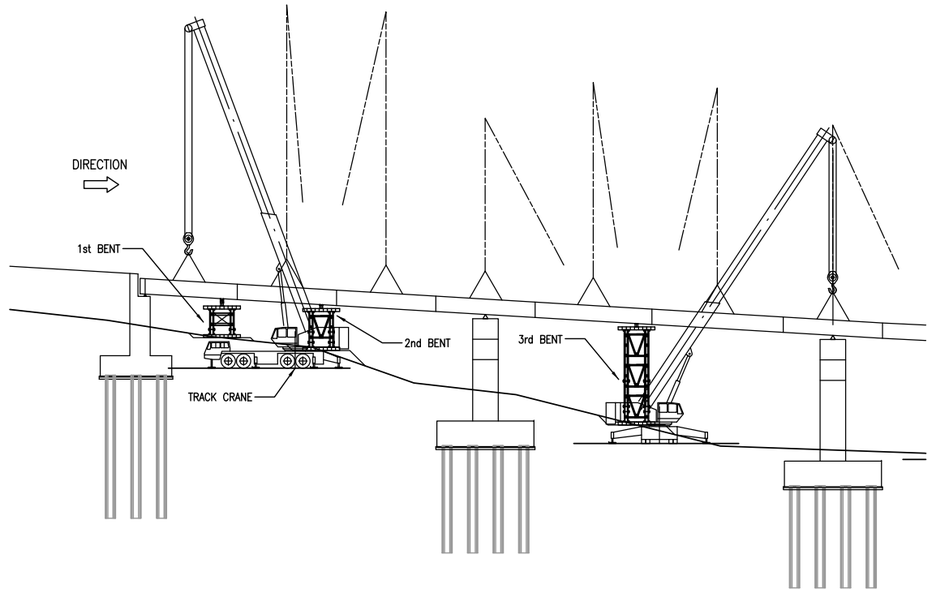


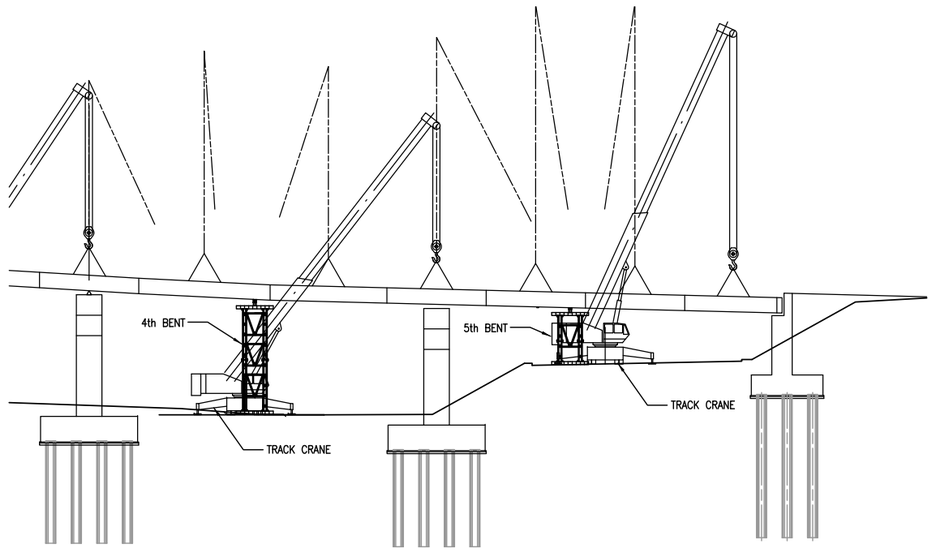
3. INSTALLATION OF FORMWORK & REINFORCEMENT OF PIER HEAD

4. CASTING OF CONCRETE OF PIER HEAD



STEP 4: SUPERSTRUCTURE





1.FABRICATION YARD
- NEARBY SITE (ONLY IF PC-I GIRDER)

2. INSTALLATION OF BENT
- ONLY IF STEEL-I GIRDER

3. ERECTION BY TRACK CRANE
- EASE OF ERECTION IN DRY SEASON

MINISTRY OF ROAD TRANSPORT AND BRIDGES (MORTB)
PEOPLE'S REPUBLIC OF BANGLADESH
ROADS & HIGHWAYS DEPARTMENT(RHD)

JAPAN INTERNATIONAL COOPERATION AGENCY

ORIENTAL CONSULTANTS GLOBAL CO., LTD.
KATAHIRA & ENGINEERS INTERNATIONAL

No	REVISION	DATE

PREPARATORY SURVEY ON WESTERN BANGLADESH BRIDGES IMPROVEMENT PROJECT

Construction Method

DESIGNED BY:	
CHECKED BY:	
APPROVED BY:	
DWG. NO.	CM-1