

**PREPARATORY SURVEY FOR
THE PROJECT FOR
STRENGTHENING CONNECTIVITY
OF INTERNATIONAL HIGHWAY
IN
MEKONG REGION**

**FINAL REPORT
PRELIMINARY DESIGN DRAWING
(FEASIBILITY STUDY)**

DECEMBER 2016

**JAPAN INTERNATIONAL COOPERATION AGENCY
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
INTERNATIONAL DEVELOPMENT CENTER OF JAPAN
CTI ENGINEERING CO., LTD.
NIPPON KOEI CO., LTD.**

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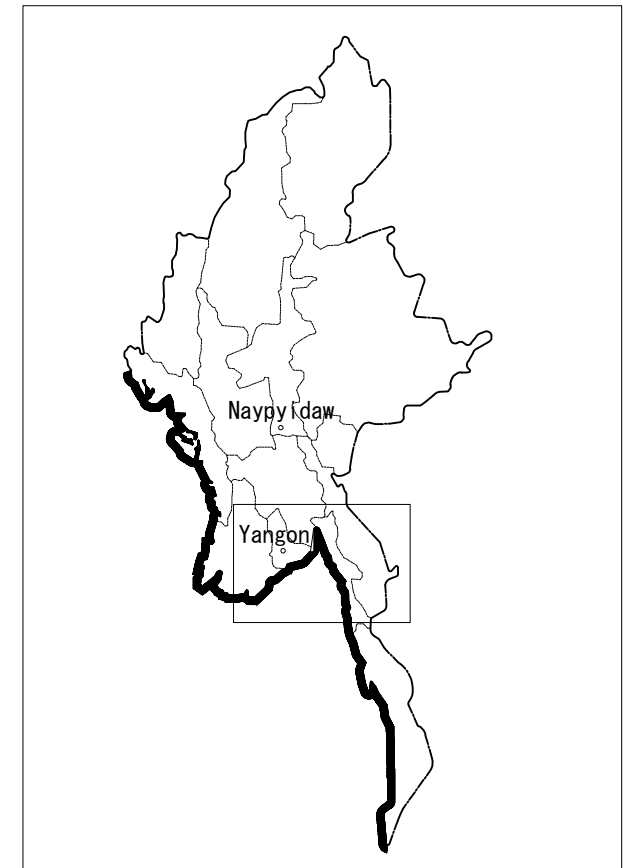
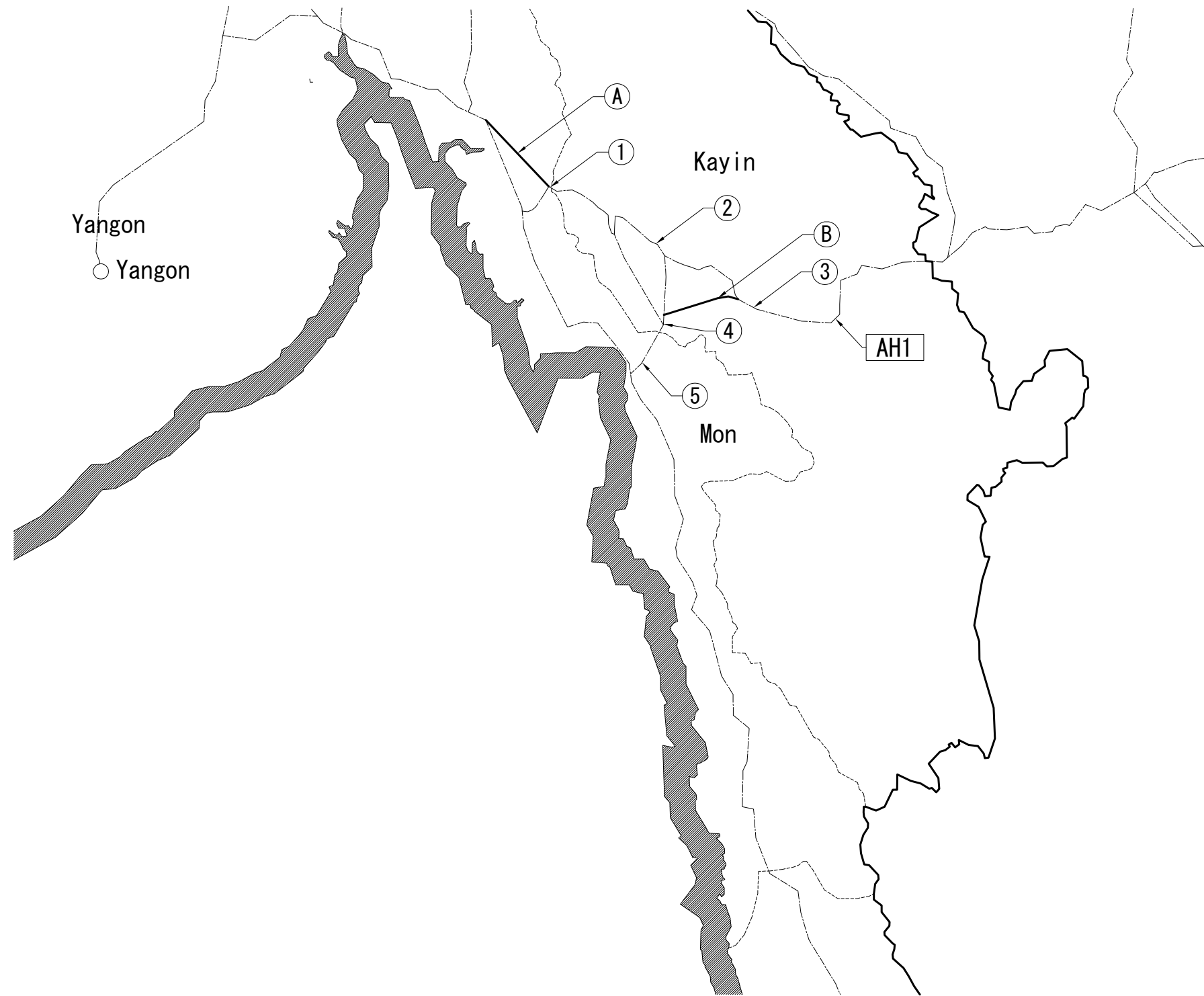
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(A) GENERAL

PROJECT LOCATION MAP

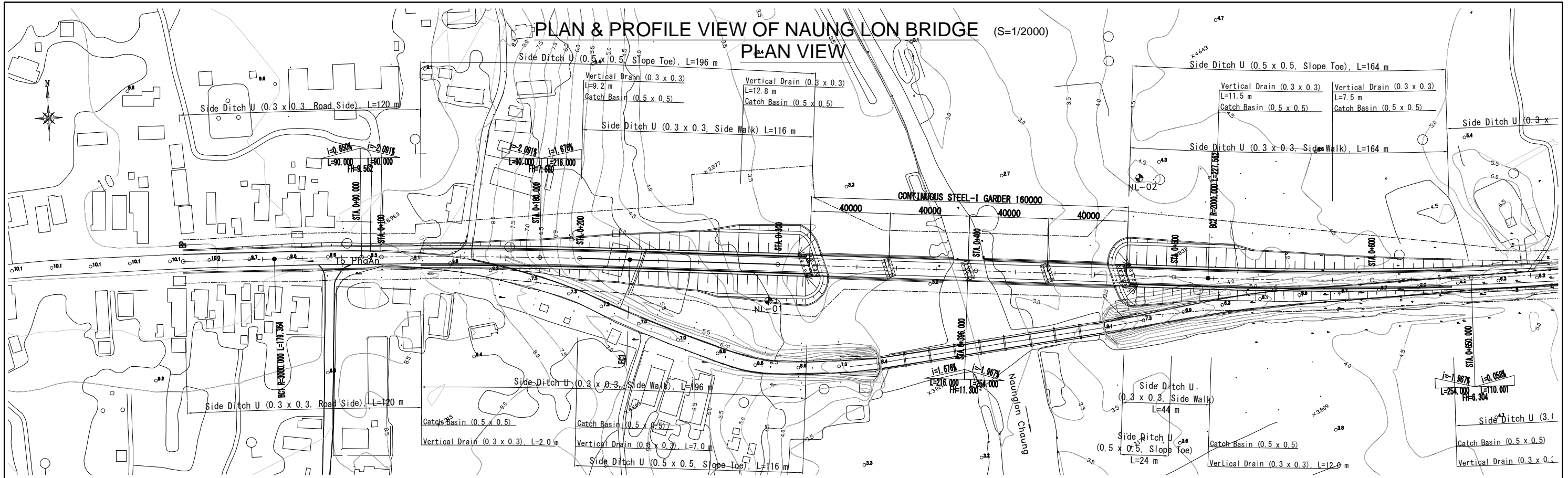


No.	Bridge or Bypass Name
①	DONTHAMI
②	NAUNG LON
③	GYAING KAWKAREIK
④	GYAING ZATHAPYIN
⑤	ATRAN
A	THATON BYPASS
B	KYARGALAY BYPASS

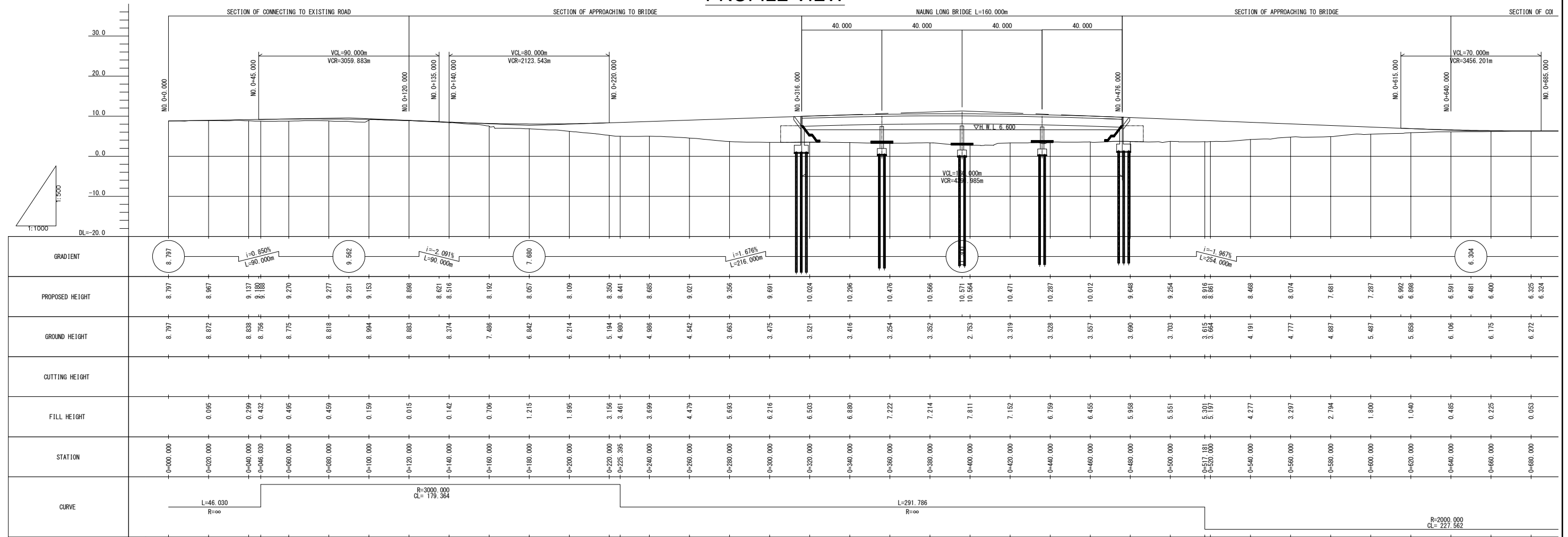
(B) NAUNG LON BRIDGE

PLAN & PROFILE VIEW OF NAUNG LON BRIDGE (S=1/2000)

PLAN VIEW

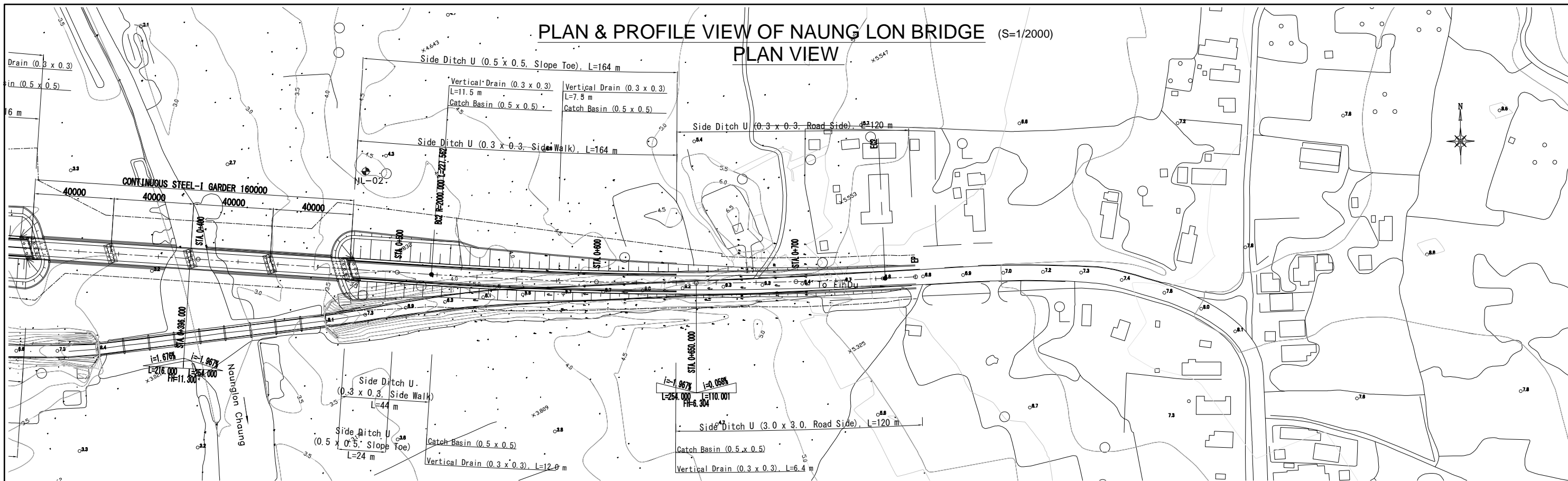


PROFILE VIEW

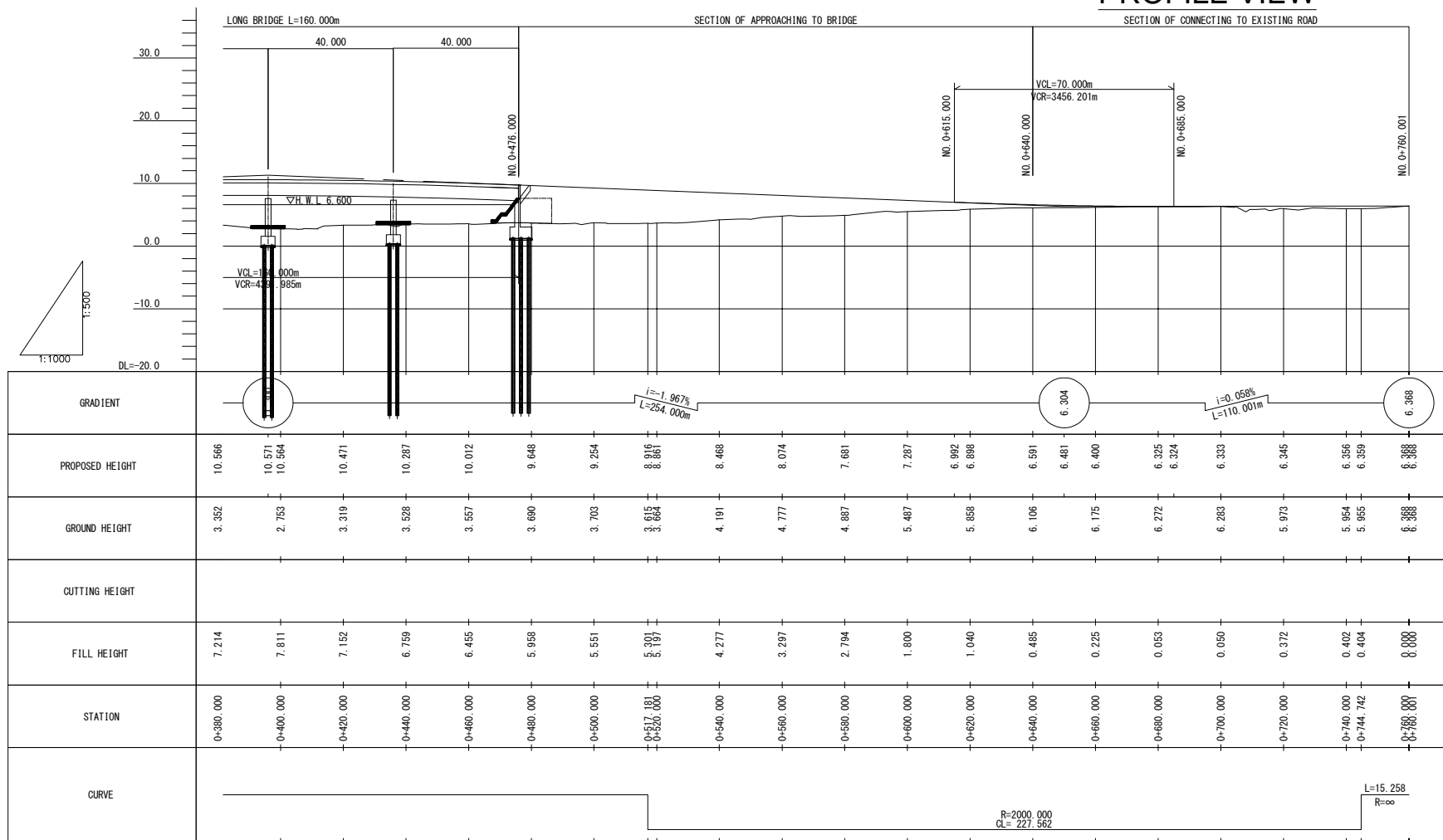


PLAN & PROFILE VIEW OF NAUNG LON BRIDGE (S=1/2000)

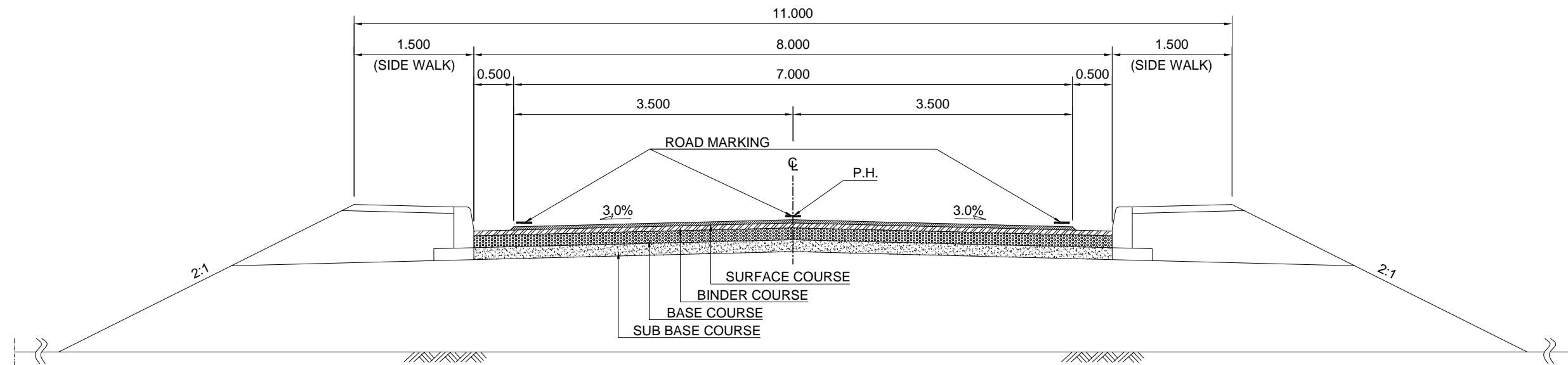
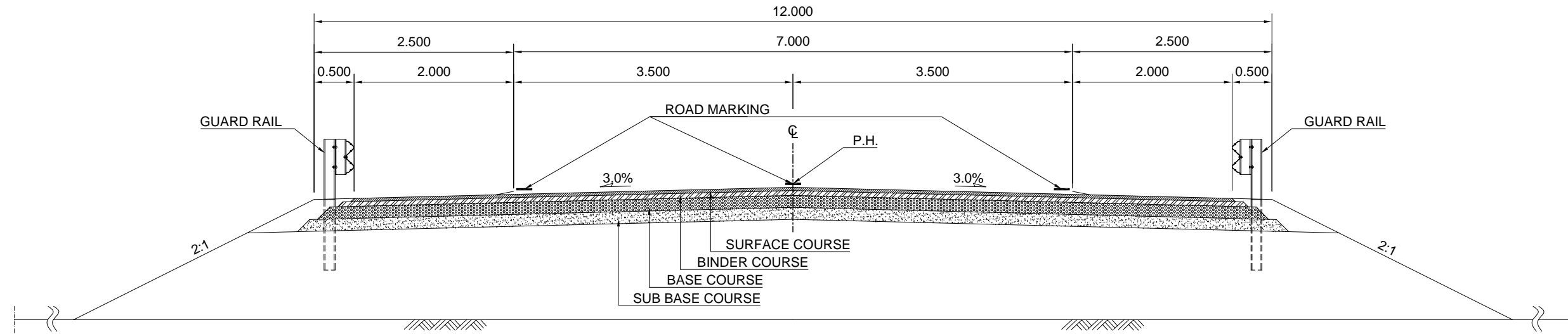
PLAN VIEW



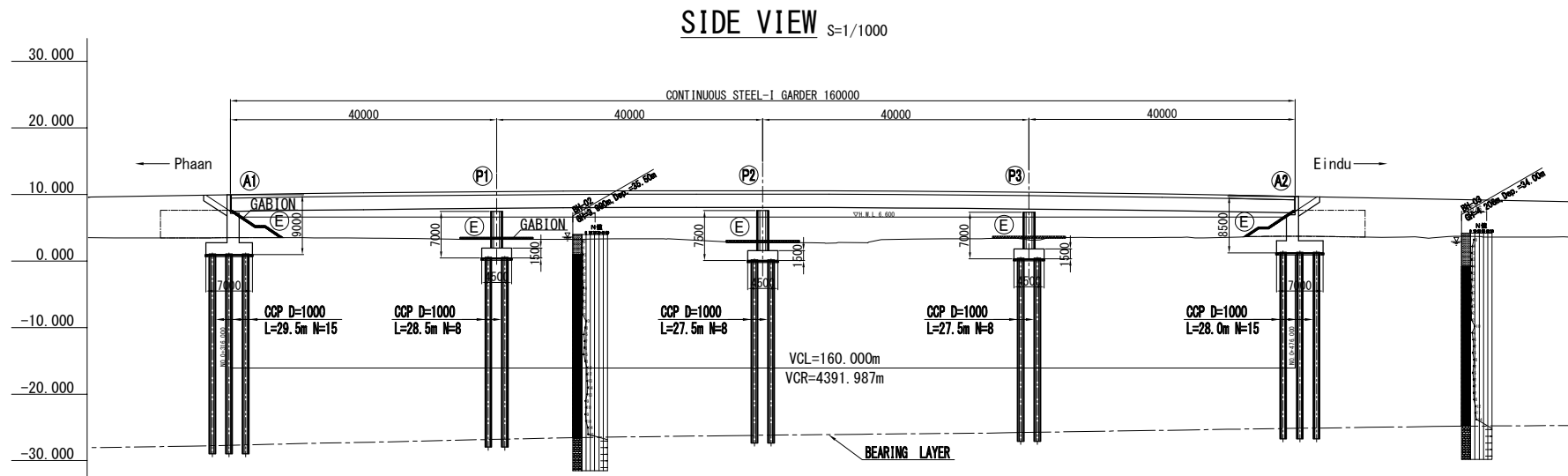
PROFILE VIEW



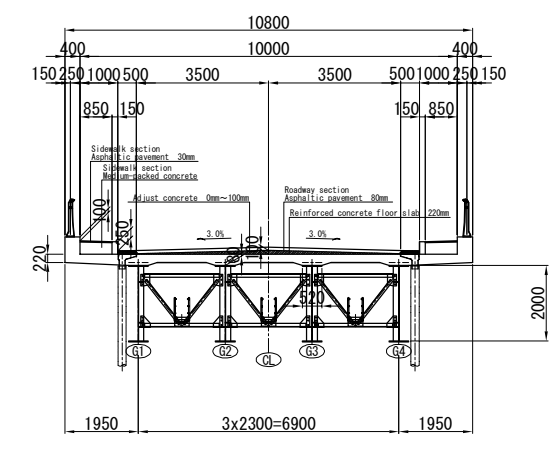
TYPICAL CROSS SECTION S=1/60



GENERAL VIEW
(NAUNG LON BRIDGE)

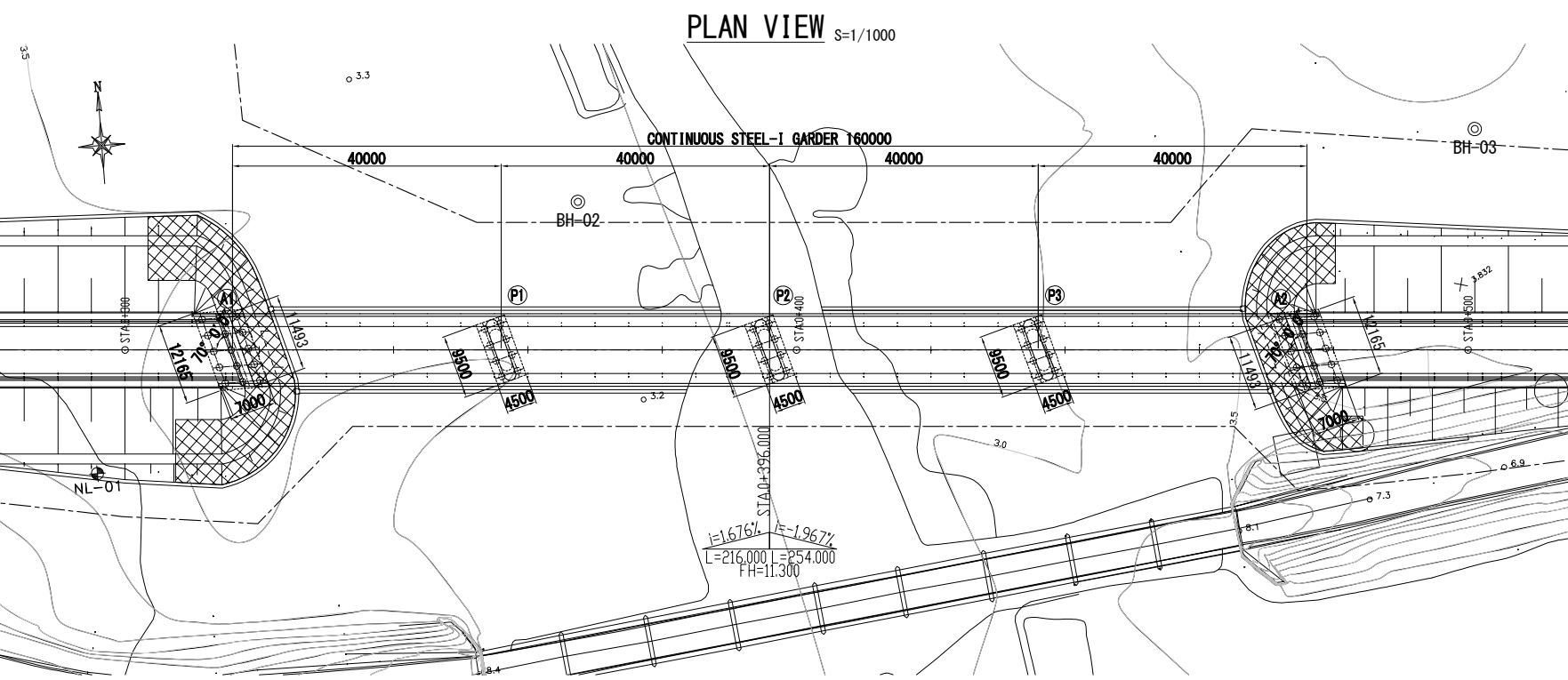
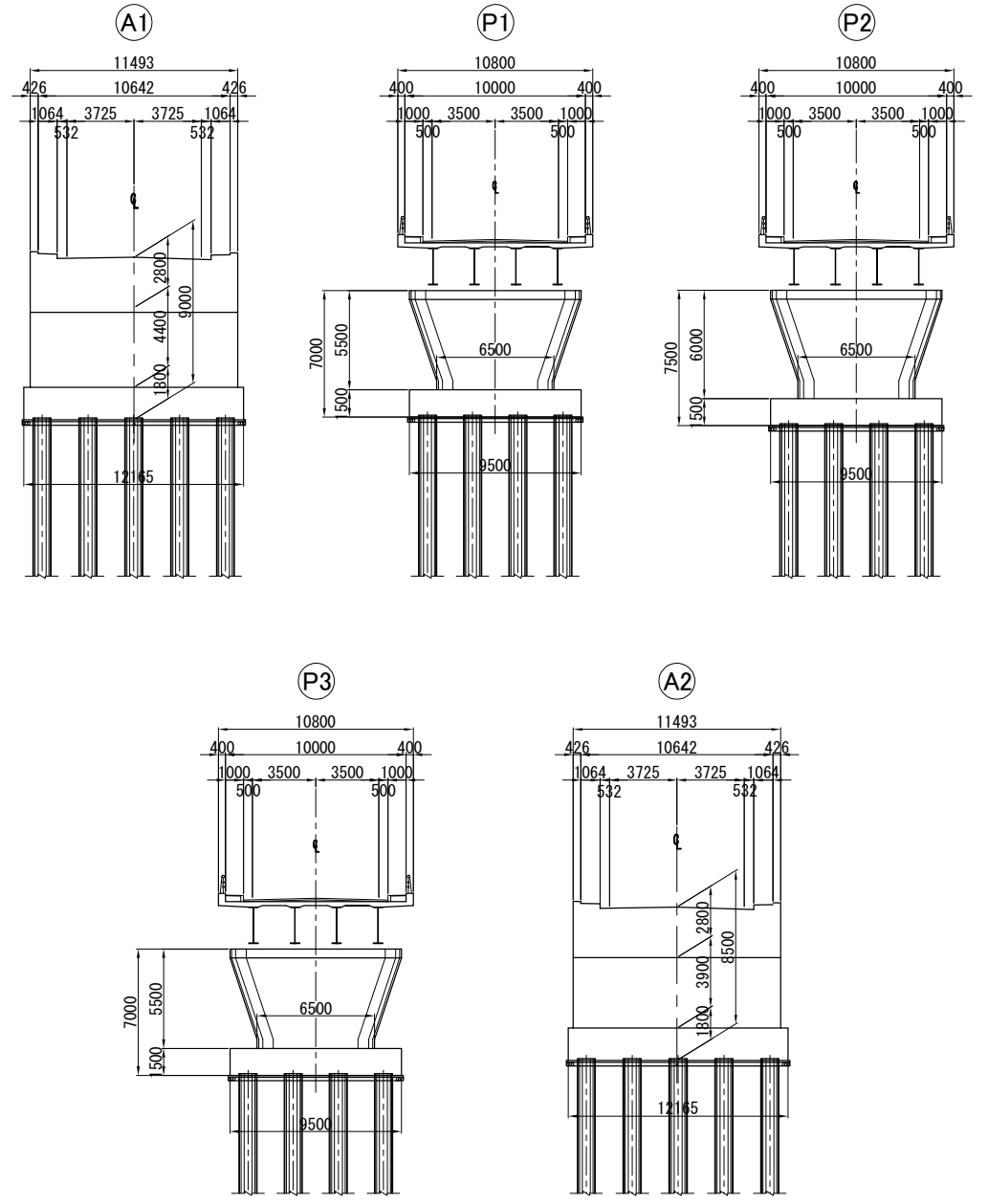


SUPERSTRUCTURE CROSS SECTION S=1/200



GRADIENT			$i=1.676\%$ $L=136.000m$		11.300		$i=-1.967\%$ $L=239.000m$									
PROPOSED HEIGHT	9.959	10.024	10.286	10.476	10.565	10.564	10.471	10.287	10.012	9.648	9.255					
GROUND HEIGHT	3.521	3.416	3.254	3.352	2.753	3.319	3.528	3.557	3.680	3.703						
DISTANCE	16.000	4.000	20.000	16.000	4.000	20.000	16.000	4.000	20.000	16.000	4.000					
STATION	0+310.000	A1 +316.000	+320.000	+340.000	P1 +356.000	+360.000	+380.000	P2 +396.000	+400.000	+420.000	P3 +436.000	+440.000	+460.000	A2 +476.000	+480.000	+500.000
CURVE ELEMENT	R=8 L=291.786															

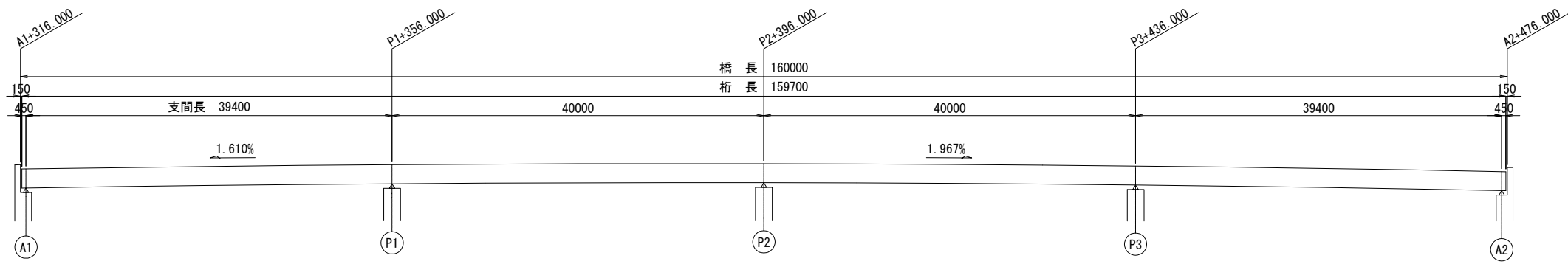
SUBSTRUCTURE FRONT VIEW S=1/400



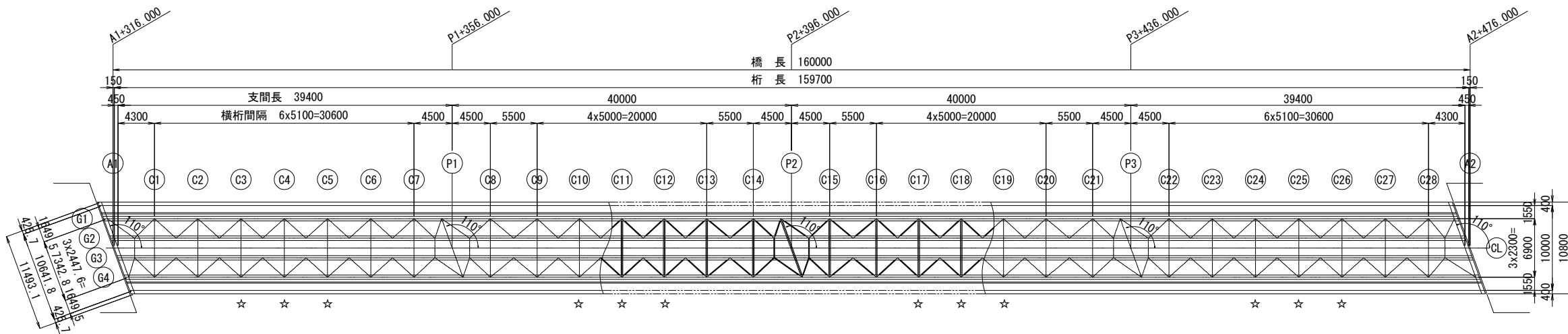
REMARKS

GENERAL PLAN OF SUPERSTRUCTURE (NAUNG LON BRIDGE)

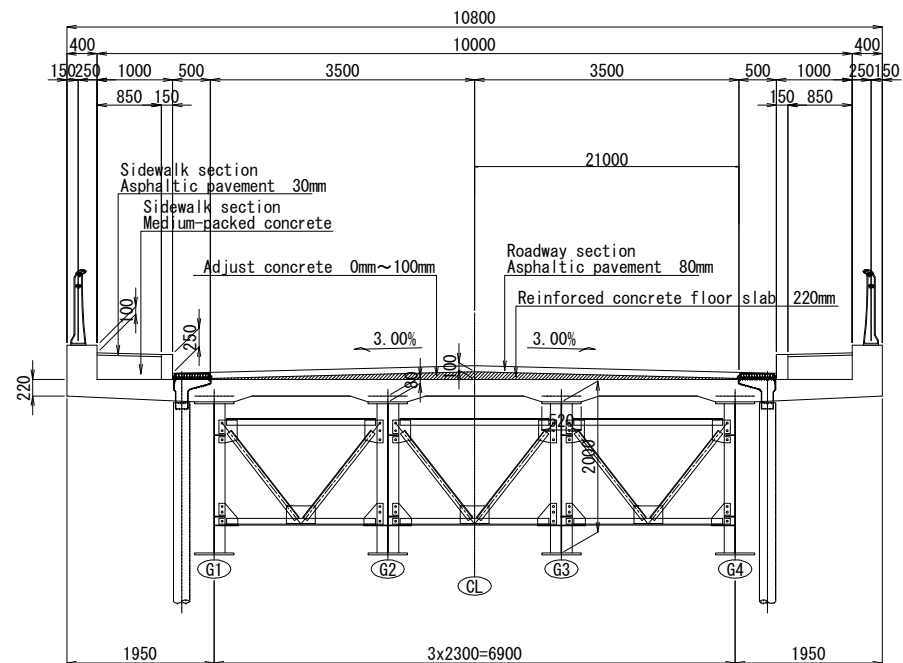
SIDE VIEW S=1/600



PLAN VIEW S=1/600



SUPERSTRUCTURE CROSS SECTION S=1/100

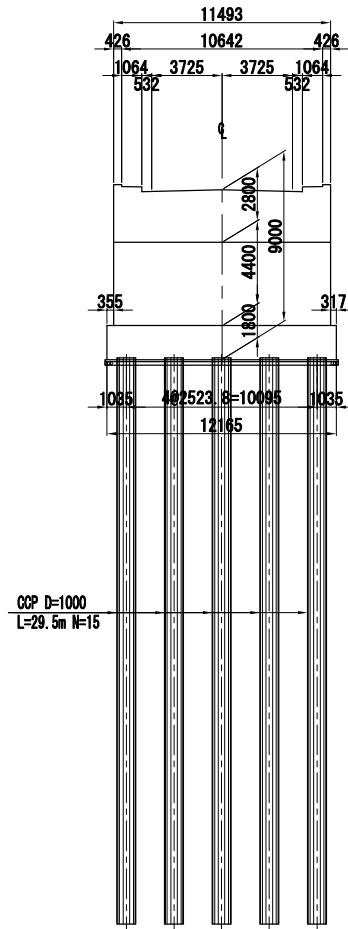


※ ☆Marked area indicates the cross beam for load distribution

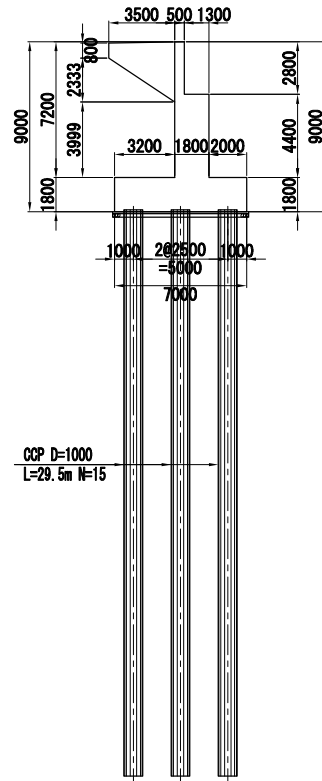
SUBSTRUCTURE AND FOUNDATION (1)
(NAUNG LON BRIDGE)

A1
Scale 1:400

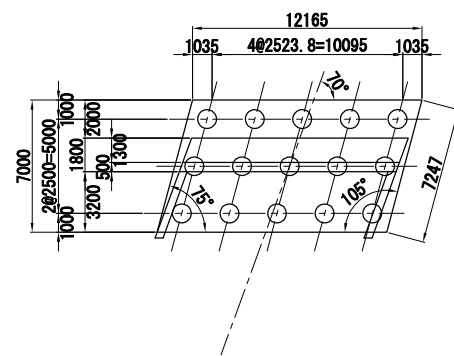
FRONT VIEW



SIDE VIEW

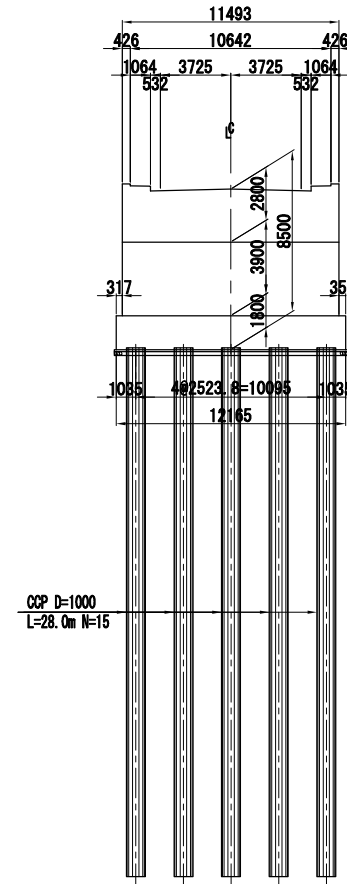


PLAN VIEW

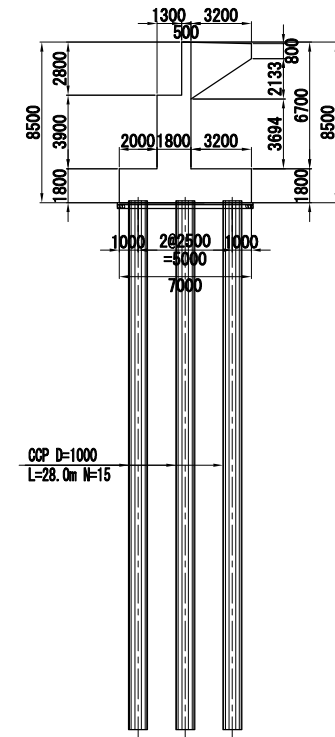


A2
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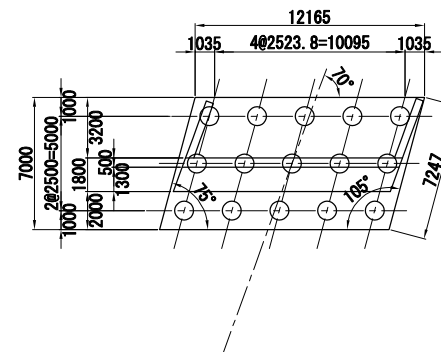
FRONT VIEW



SIDE VIEW

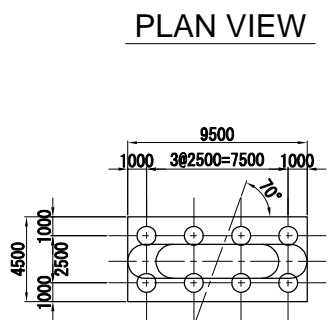
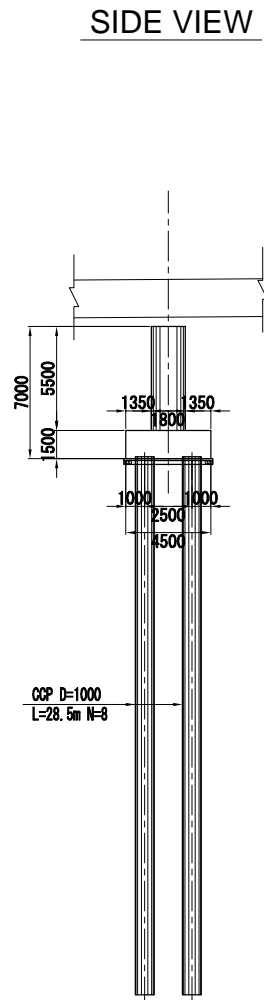
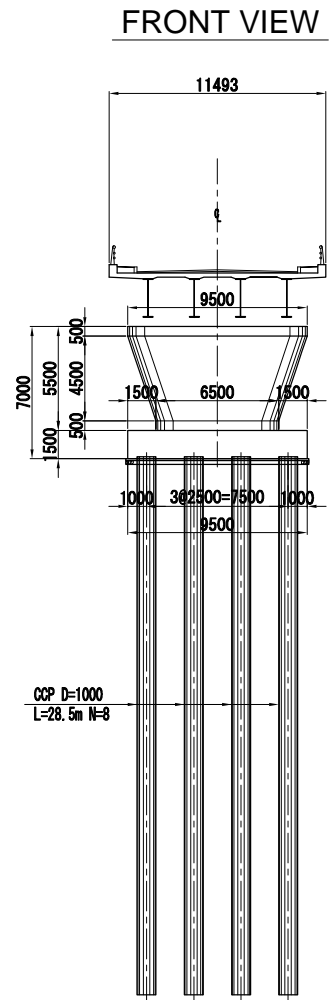


PLAN VIEW

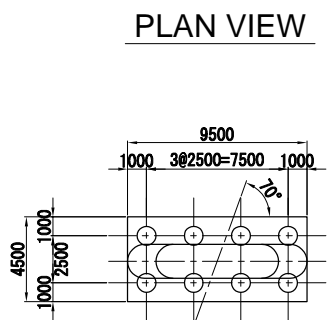
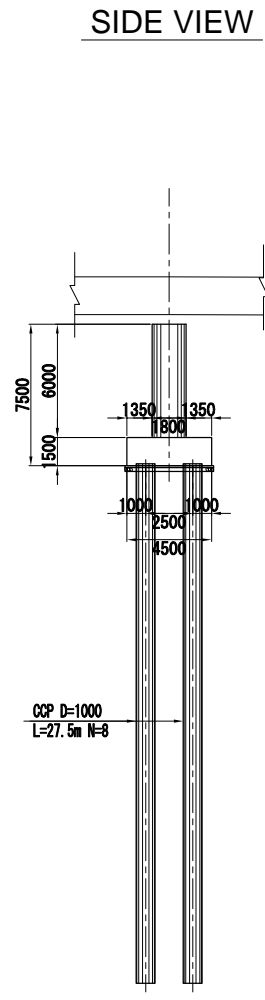
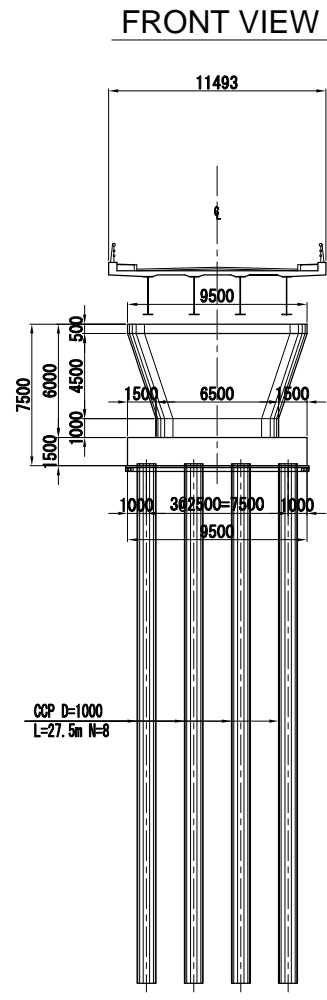


SUBSTRUCTURE AND FOUNDATION (2)
(NAUNG LON BRIDGE)

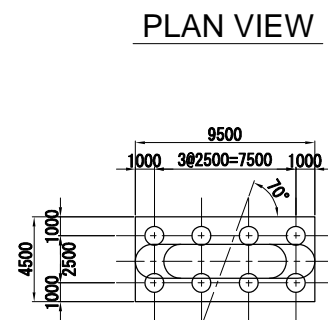
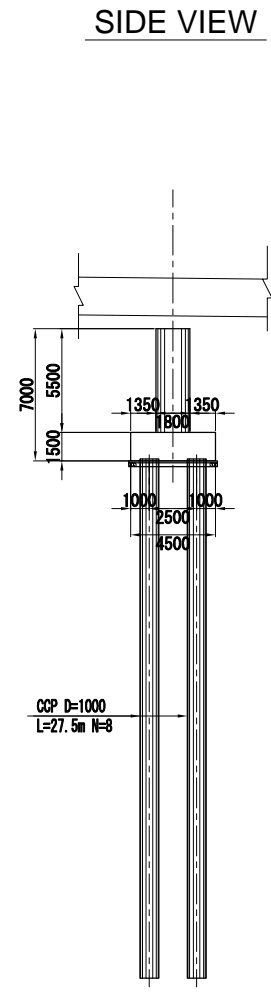
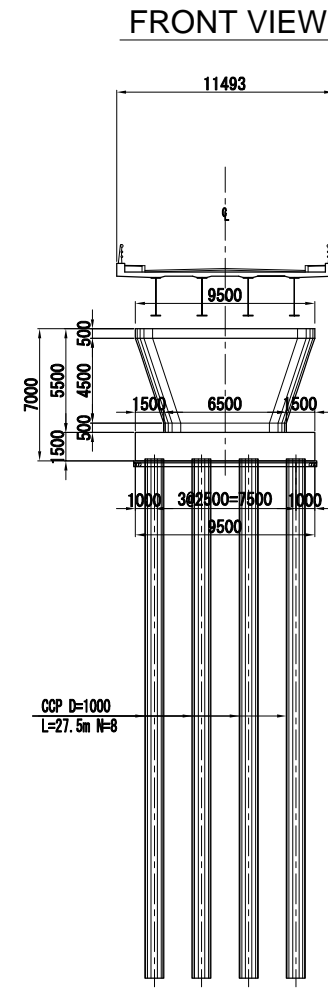
P1
Scale 1:400



P2
Scale 1:400



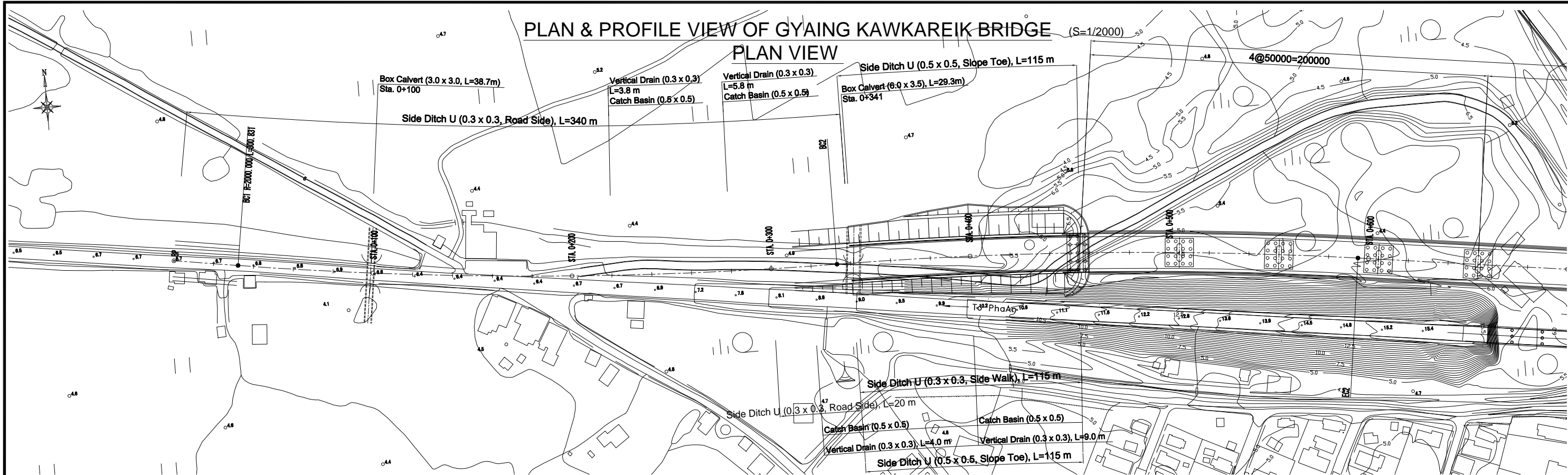
P3
Scale 1:400



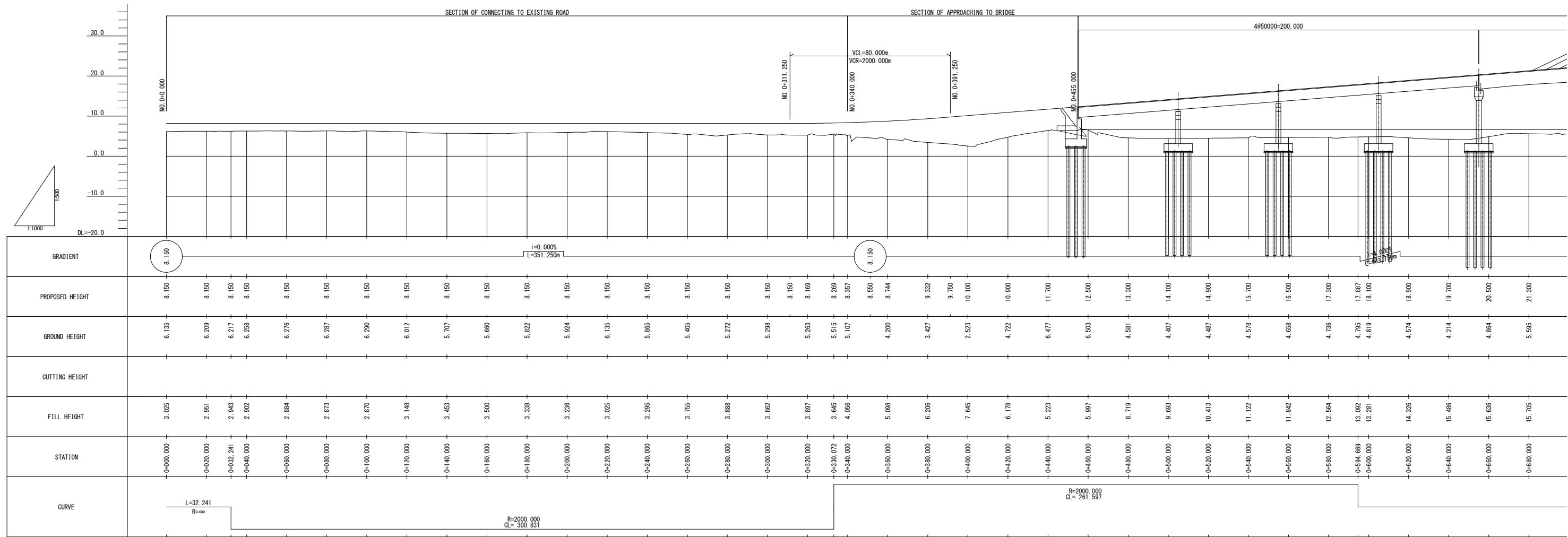
(C) GYAING KAWKAREIK BRIDGE

PLAN & PROFILE VIEW OF GYAING KAWKAREIK BRIDGE (S=1/2000)

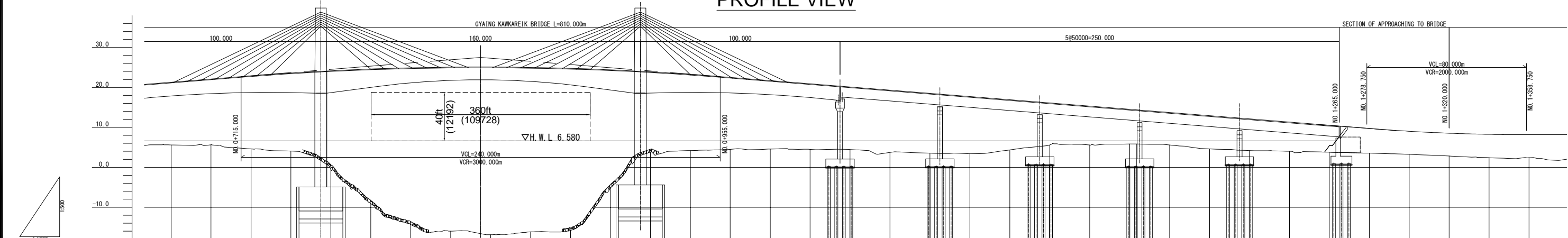
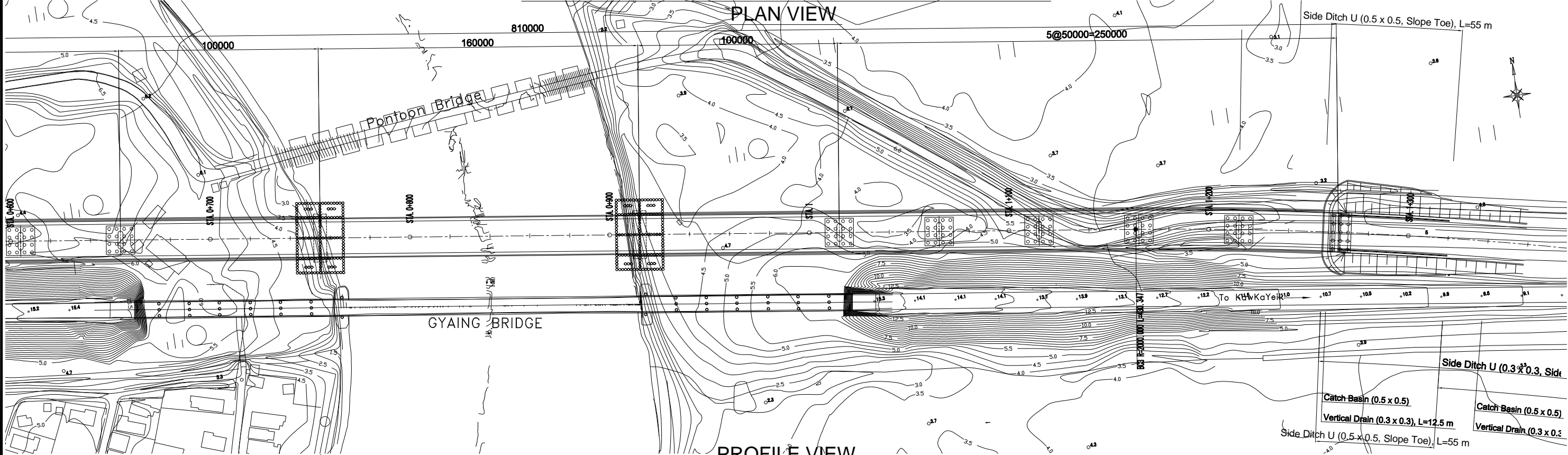
PLAN VIEW



PROFILE VIEW



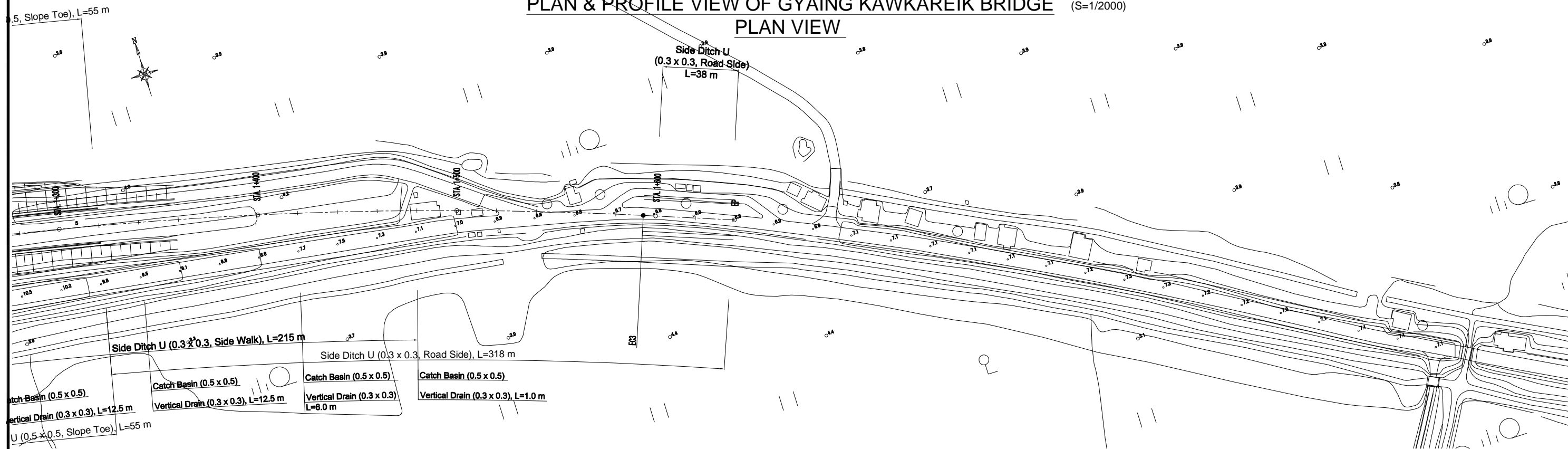
PLAN & PROFILE VIEW OF GYAING KAWKAREIK BRIDGE (S=1/2000)



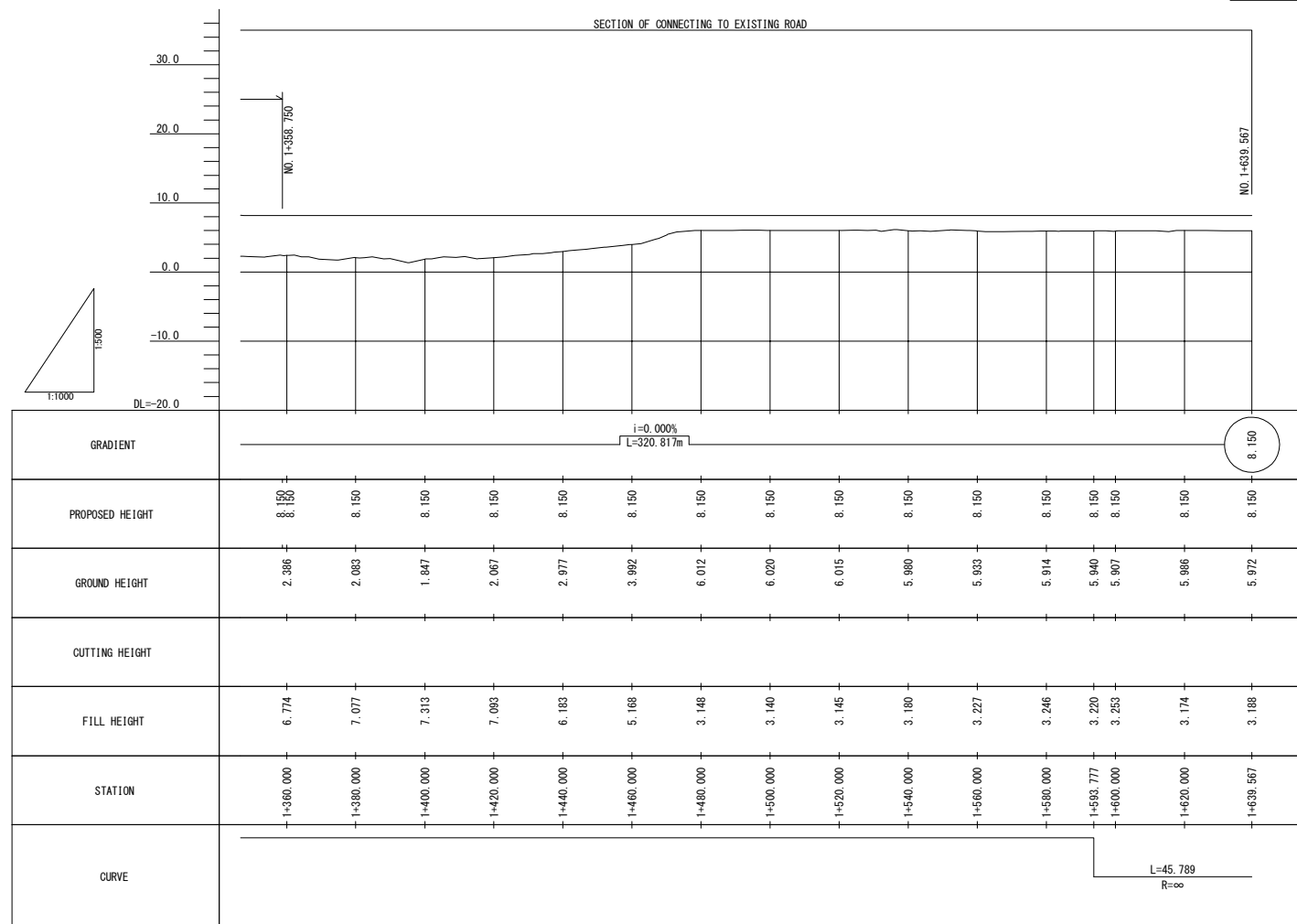
GRADIENT																																											
PROPOSED HEIGHT	21.300	22.100	22.700	22.896	23.596	24.163	24.596	24.896	25.063	25.100	25.096	24.996	24.763	24.396	23.896	23.263	22.700	22.500	21.700	20.900	20.400	19.300	18.960	18.960	17.700	16.900	16.400	15.300	14.960	14.960	13.700	12.900	12.400	11.300	10.760	10.500	9.750	9.701	9.013	8.550	8.525	8.238	8.150
GROUND HEIGHT	5.595	5.614	4.592	4.650	-0.576	-9.113	-14.308	-15.973	-16.875	-16.145	-15.757	-5.255	3.792	4.185	4.482	4.578	4.482	4.458	3.704	3.538	3.463	4.354	5.595	5.573	5.831	5.813	5.985	4.596	4.197	4.014	3.784	3.539	3.257	2.830	2.402	2.368							
CUTTING HEIGHT																																											
FILL HEIGHT	15.705	16.486	18.304	19.546	24.739	33.709	39.204	41.038	41.971	41.141	40.520	29.651	20.104	19.078	18.018	17.122	16.418	15.644	15.596	14.962	14.237	12.548	10.805	9.727	8.669	8.550	8.115	8.304	7.803	7.286	6.727	6.337	6.184	6.376	6.758	6.774							
STATION	0+680.000	0+700.000	0+720.000	0+740.000	0+760.000	0+780.000	0+800.000	0+820.000	0+840.000	0+860.000	0+880.000	0+900.000	0+920.000	0+940.000	0+960.000	0+980.000	1+000.000	1+020.000	1+040.000	1+060.000	1+080.000	1+100.000	1+120.000	1+140.000	1+160.000	1+163.430	1+180.000	1+200.000	1+220.000	1+240.000	1+260.000	1+280.000	1+300.000	1+320.000	1+340.000	1+360.000							
CURVE	L=568.761 R=∞																																										

PLAN & PROFILE VIEW OF GYAING KAWKAREIK BRIDGE (S=1/2000)

PLAN VIEW

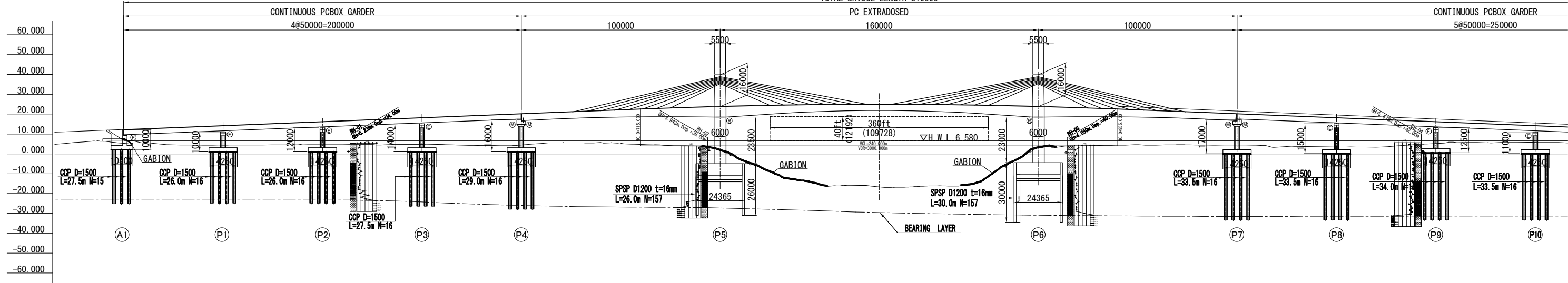


PROFILE VIEW



SIDE VIEW S=1/2000

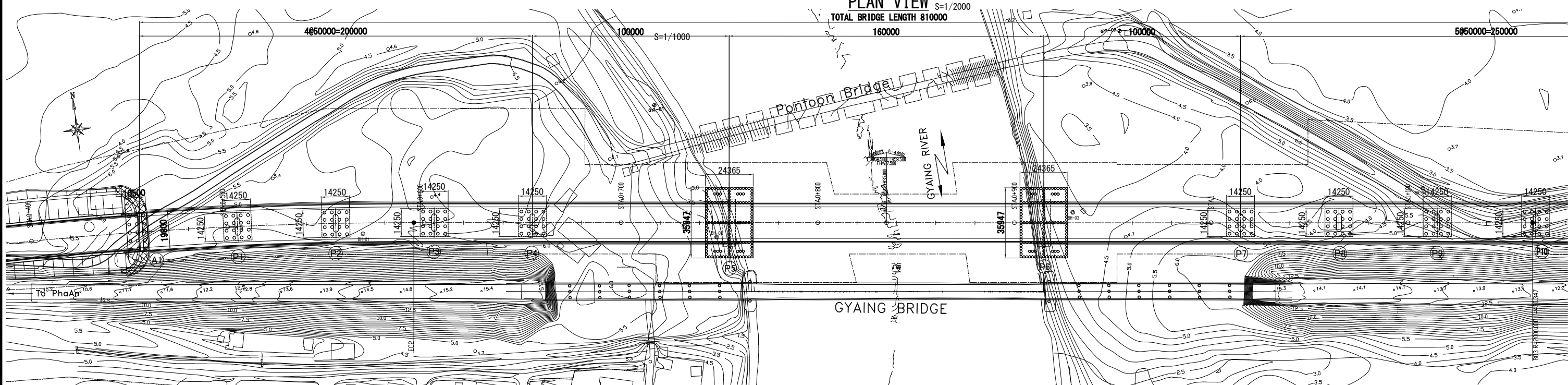
TOTAL BRIDGE LENGTH 810000



GRADIENT	4.000% L=488.000m										27.500										4.000% L=462.000m																												
PROPOSED HEIGHT	11.700	12.500	13.300	14.100	14.900	15.700	16.500	17.300	17.887	18.100	18.900	19.700	20.500	21.300	22.100	22.896	23.596	24.162	24.596	24.896	25.062	25.096	24.996	24.762	24.396	23.896	23.262	22.500	21.700	20.900	20.100	19.300	18.500	17.700	16.900	16.100	15.300	14.500	13.700	12.900	12.100								
GROUND HEIGHT	6.477	6.503	6.581	6.407	6.487	6.578	6.658	6.736	6.795	6.819	6.574	6.214	5.864	5.595	5.614	4.592	4.060	-0.576	-9.113	-14.308	-15.973	-16.975	-16.145	-15.757	-5.255	3.792	4.185	4.482	4.578	4.482	4.456	3.704	3.538	3.463	4.354	5.595	5.573	5.893	5.813	5.595	5.595								
DISTANCE	15.000	5.000	20.000	20.000	5.000	15.000	20.000	14.669	5.331	5.000	15.000	20.000	15.000	20.000	20.000	20.000	20.000	15.000	5.000	20.000	20.000	20.000	20.000	15.000	5.000	20.000	20.000	20.000	15.000	5.000	20.000	20.000	15.000	5.000	20.000	20.000	20.000	20.000	15.000	5.000	15.000								
STATION	0+440.000	0+455.000	0+480.000	0+500.000	0+505.000	0+520.000	0+540.000	0+555.000	0+560.000	0+580.000	0+594.669	0+600.000	0+605.000	0+620.000	0+640.000	0+655.000	0+660.000	0+680.000	0+700.000	0+720.000	0+740.000	0+755.000	0+760.000	0+780.000	0+800.000	0+820.000	0+840.000	0+860.000	0+880.000	0+900.000	0+915.000	0+920.000	0+940.000	0+960.000	0+980.000	1+000.000	1+015.000	1+020.000	1+040.000	1+060.000	1+065.000	1+080.000	1+100.000	1+115.000	1+120.000	1+140.000	1+160.000	1+165.000	1+180.000
CURVE ELEMENT	R=2000 L=261.597										R=∞ L=568.761																																						

PLAN VIEW S=1/2000

TOTAL BRIDGE LENGTH 810000



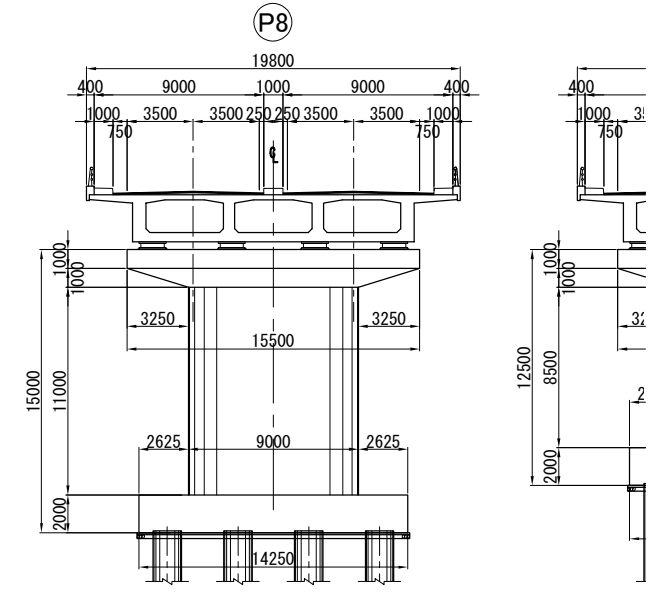
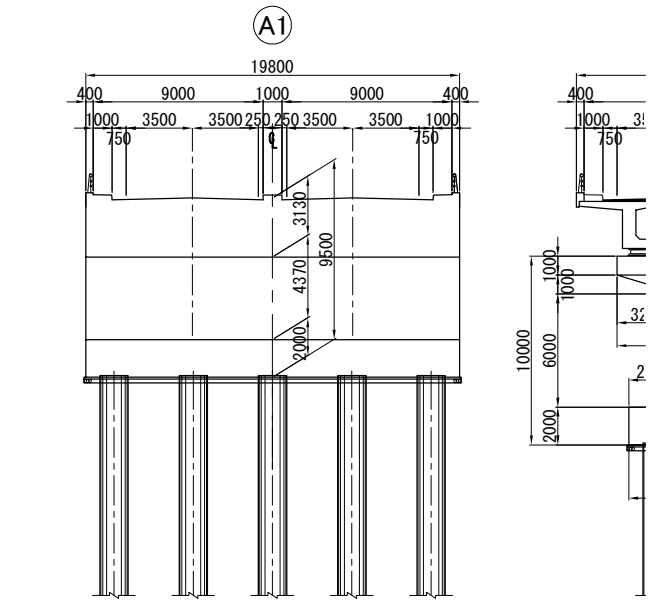
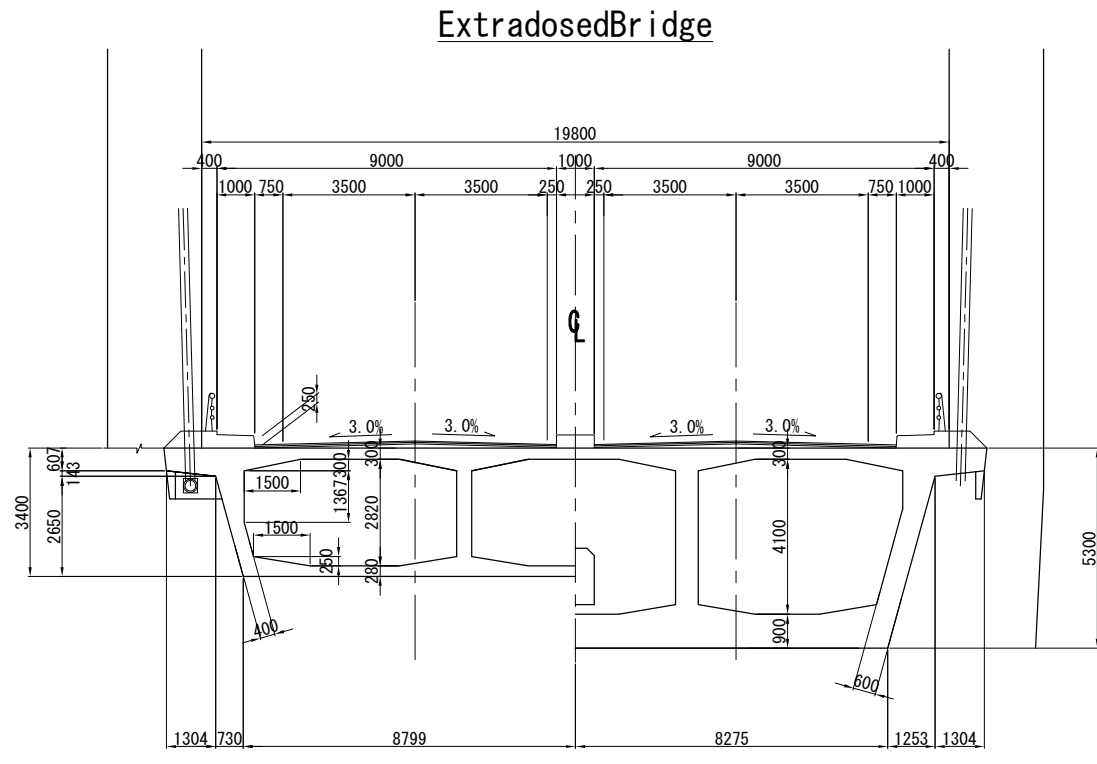
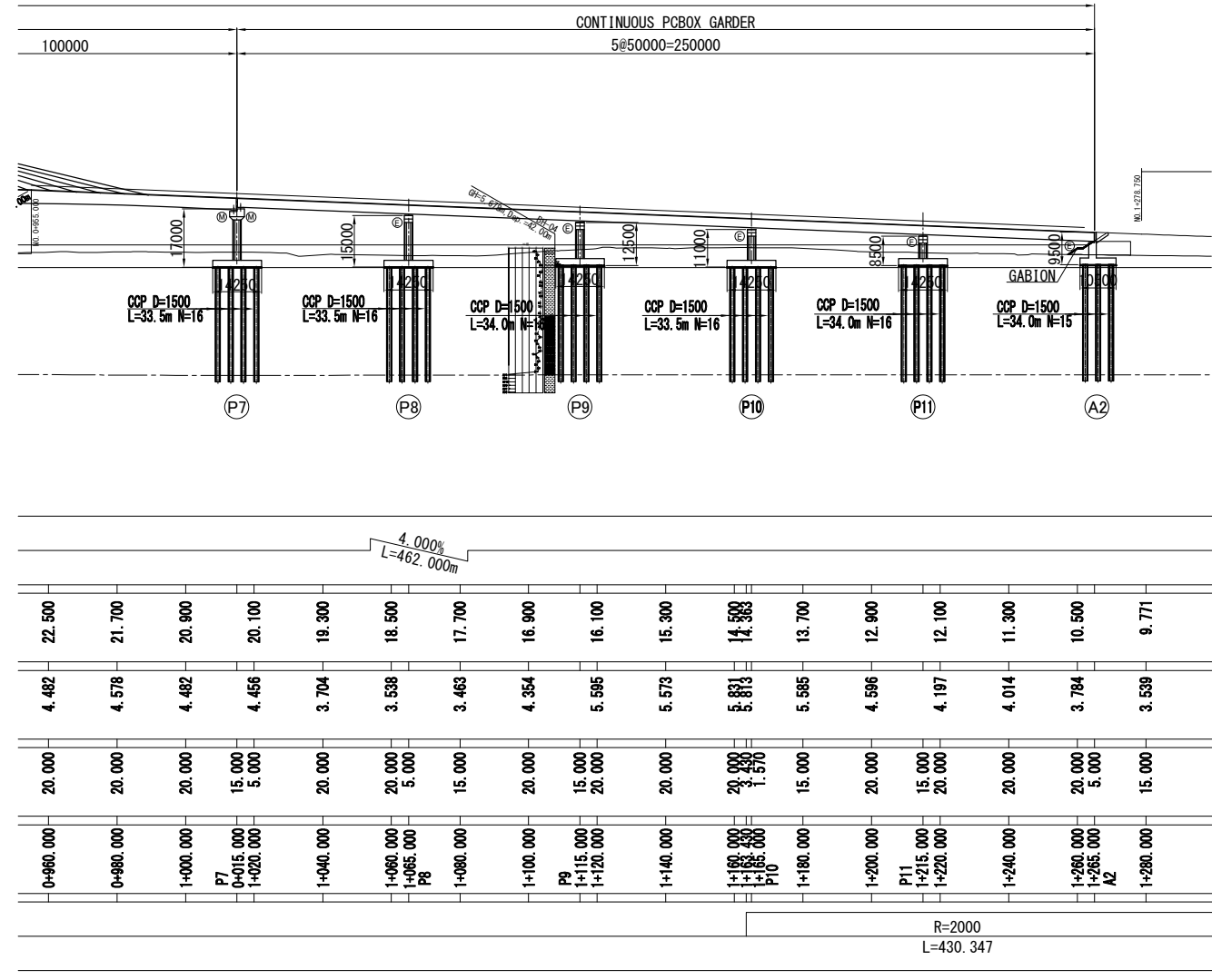
REMARKS

GENERAL VIEW

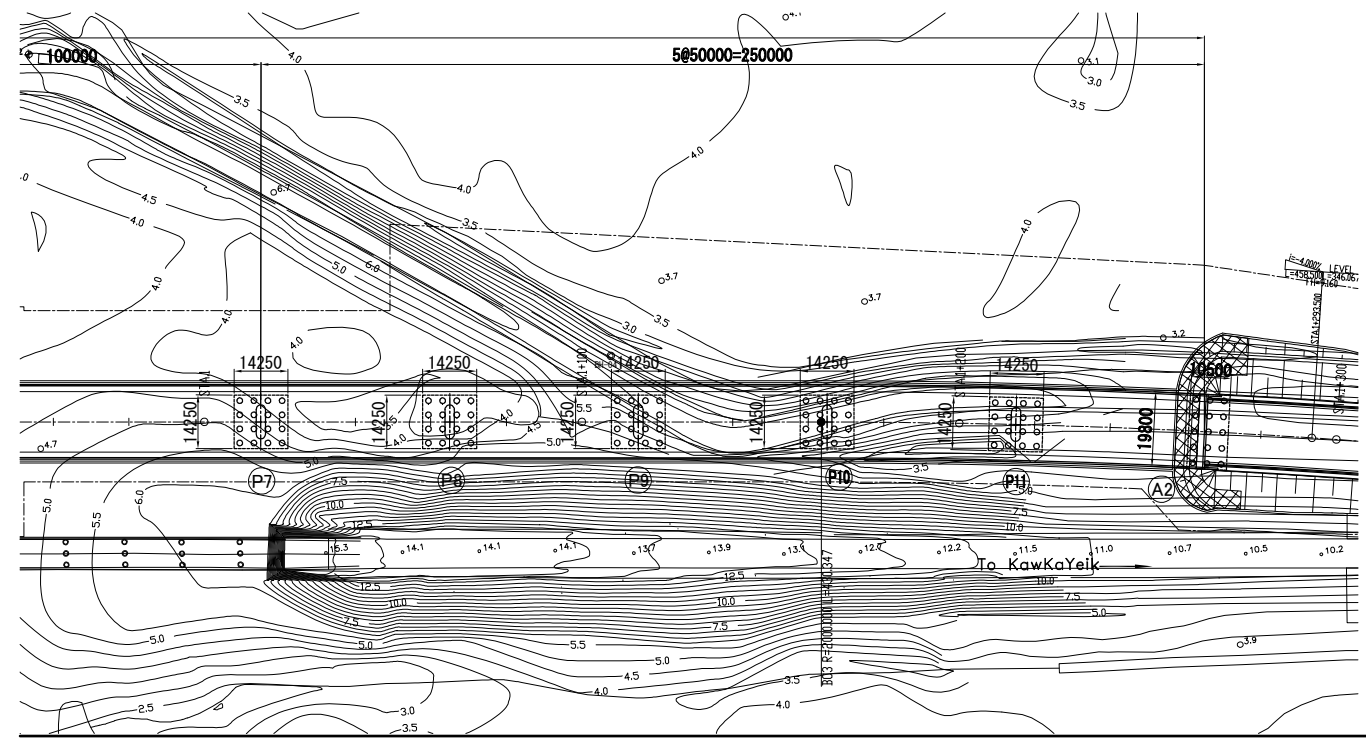
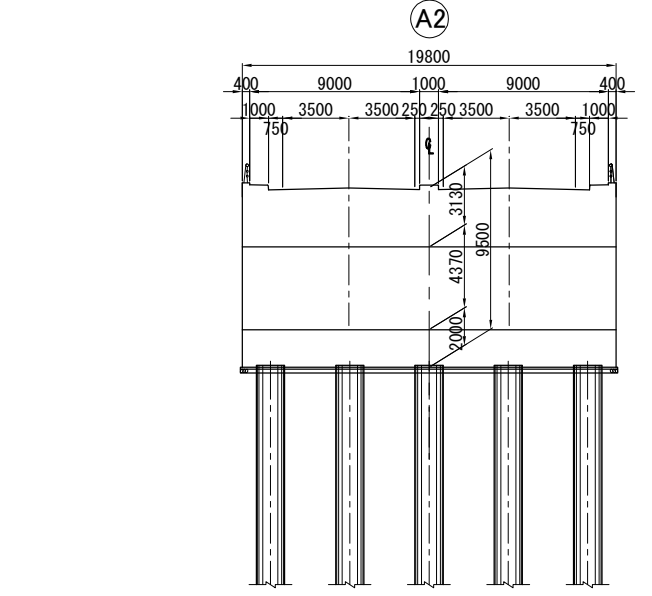
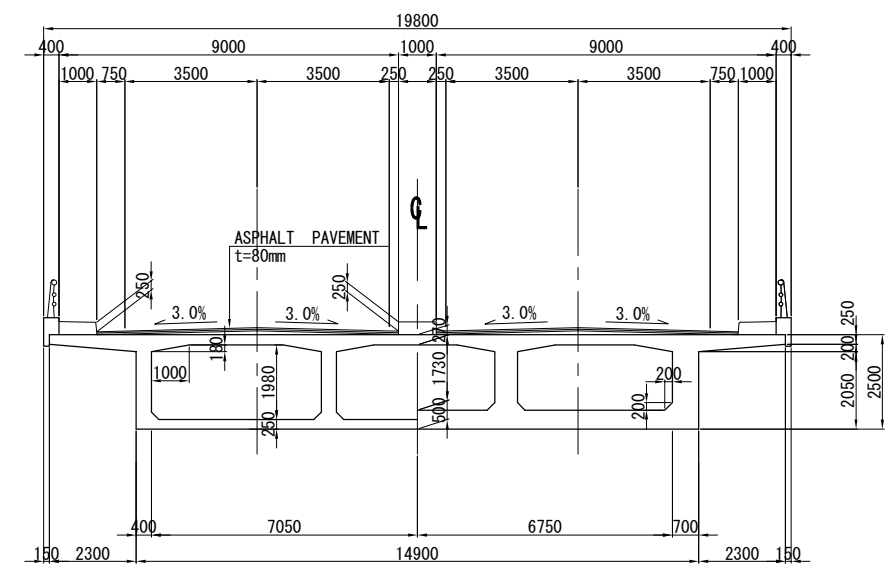
(GYAING KAWKAREIK BRIDGE)

SUPERSTRUCTURE CROSS SECTION

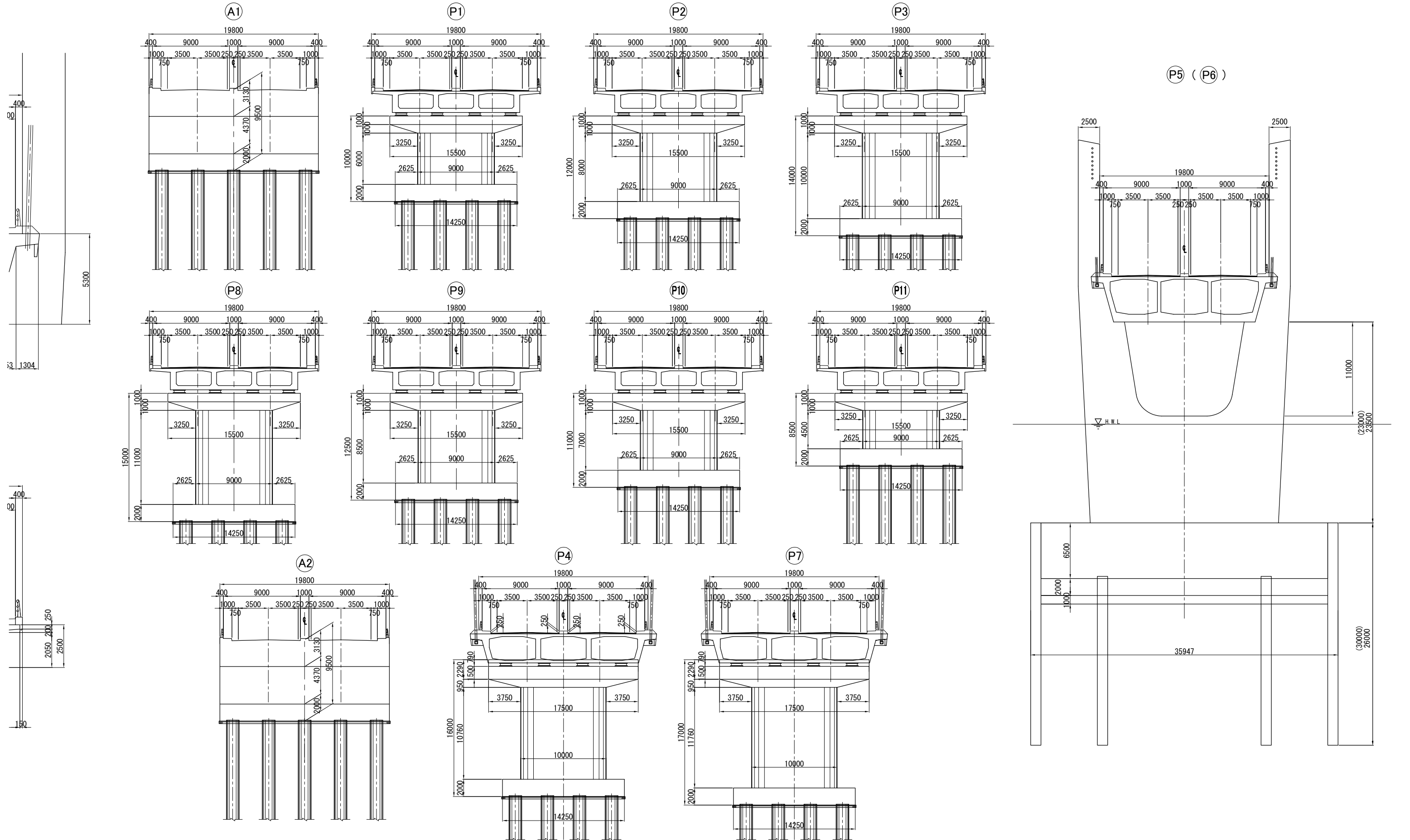
S=1/200



PCBox Girder



SUBSTRUCTURE FRONT VIEW S=1/400



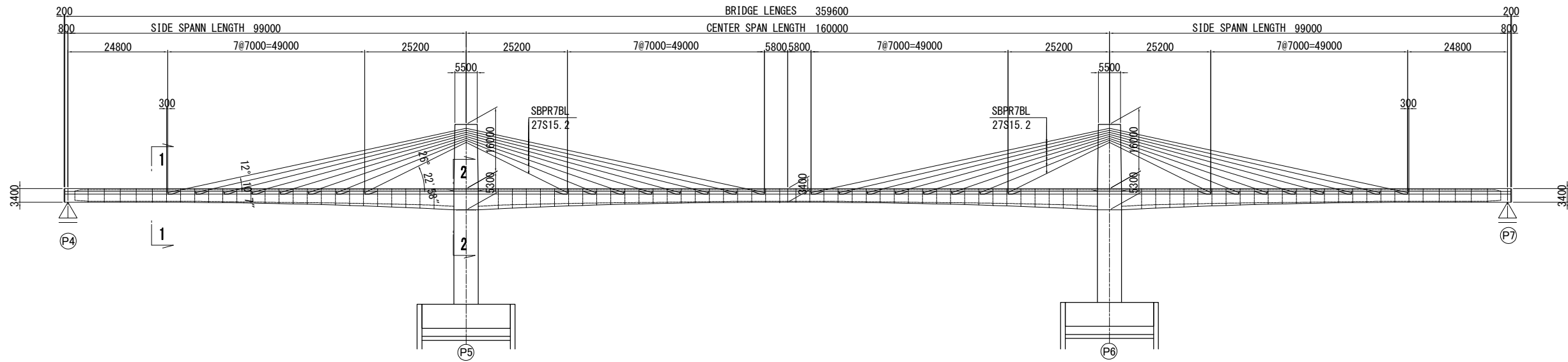
THE PROJECT FOR STRENGTHENING CONNECTIVITY OF INTERNATIONAL HIGHWAY IN MEKONG REGION

DRAWING TITLE	GENERAL VIEW	
	SCALE	AS SHOWN
	DRAWING NO.	C-2
SHEET NO.		

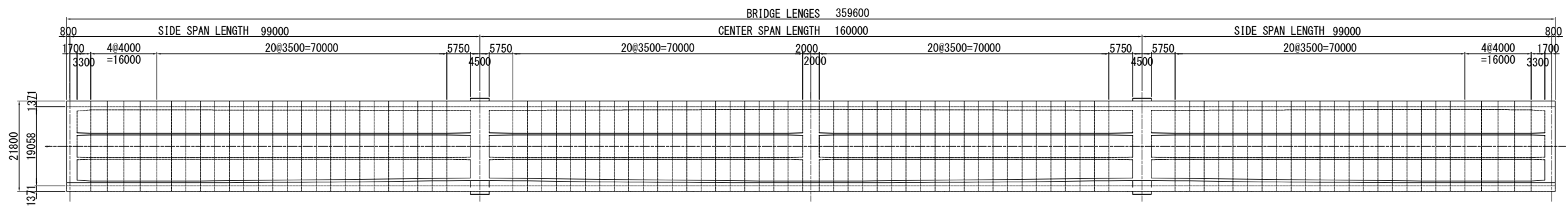
GENERAL PLAN OF SUPERSTRUCTURE (1)

(GYAING KAWKAREIK BRIDGE)

EXTRADOSED BRIDGE SIDE VIEW S=1/1200

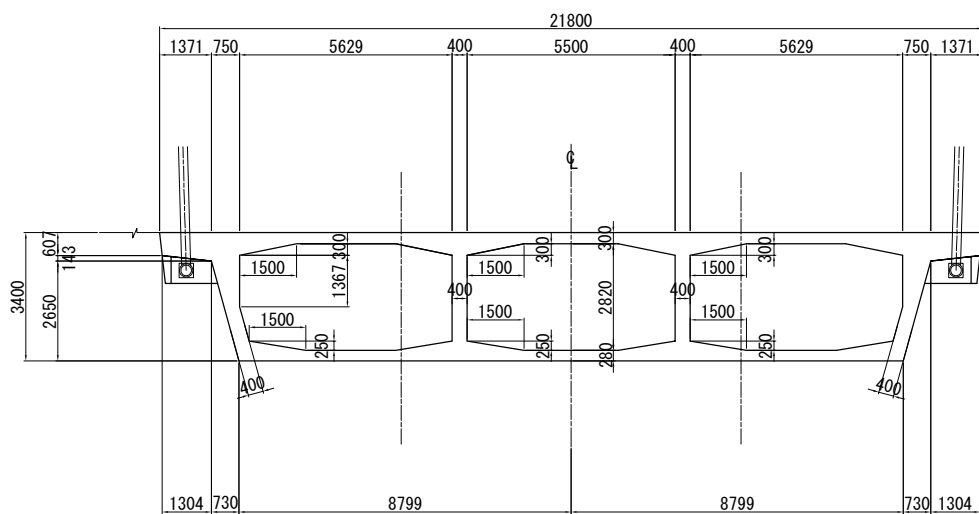


PLAN S=1/1200

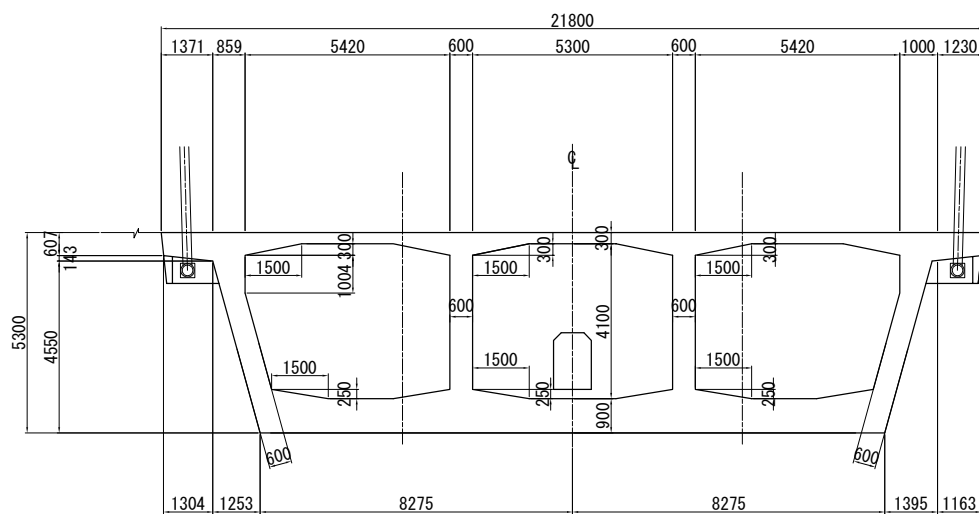


TYPICAL CROSS SECTION S=1/200

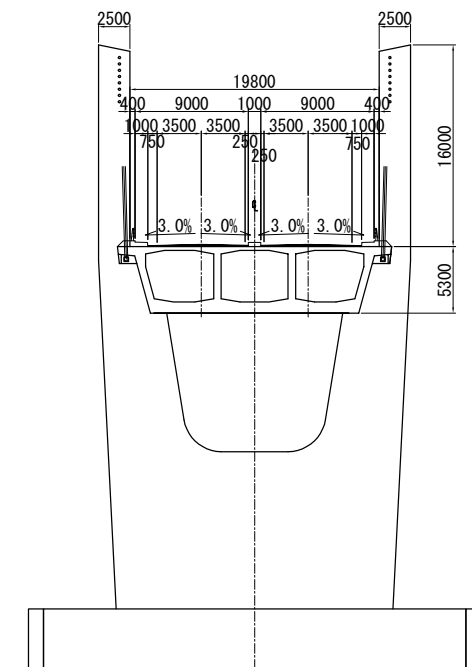
1 - 1



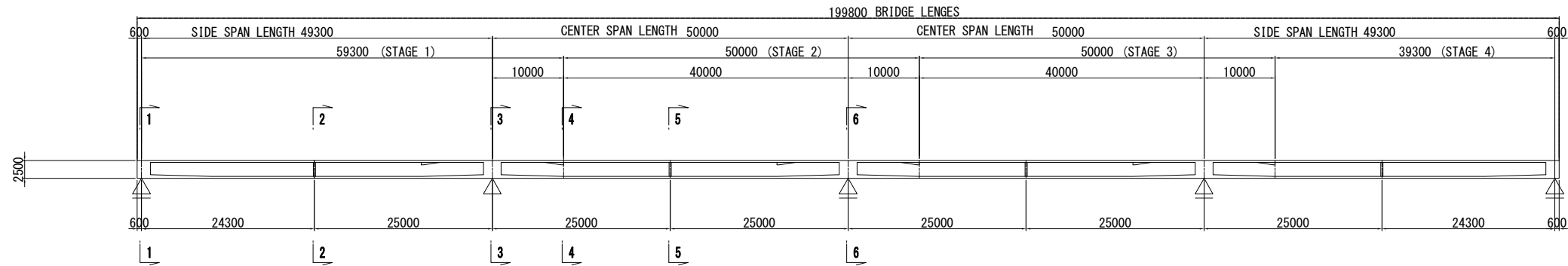
2 - 2



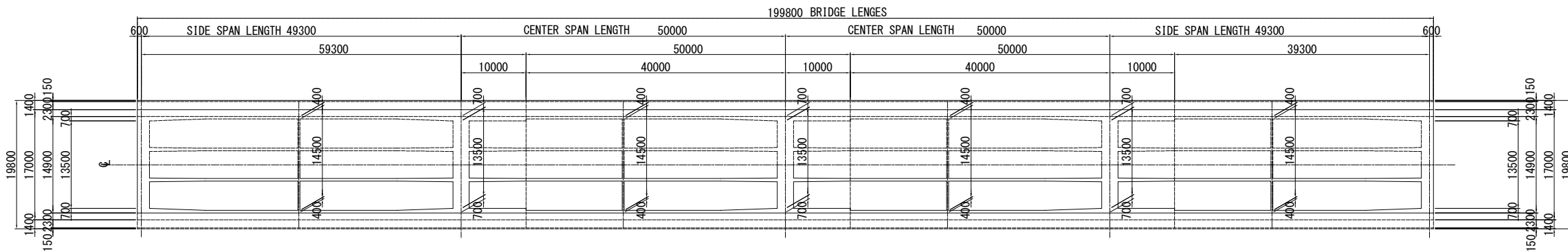
CROSS SECTION S=1/400



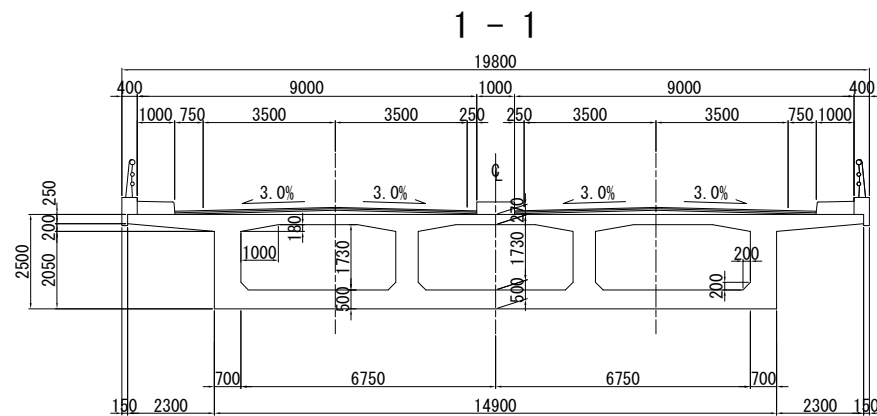
GENERAL PLAN OF SUPERSTRUCTURE (2)
 (GYAING KAWKAREIK BRIDGE)
4 SPAN CONTINUOUS BOX GIRDER Br.
SIDE VIEW S = 1 : 400



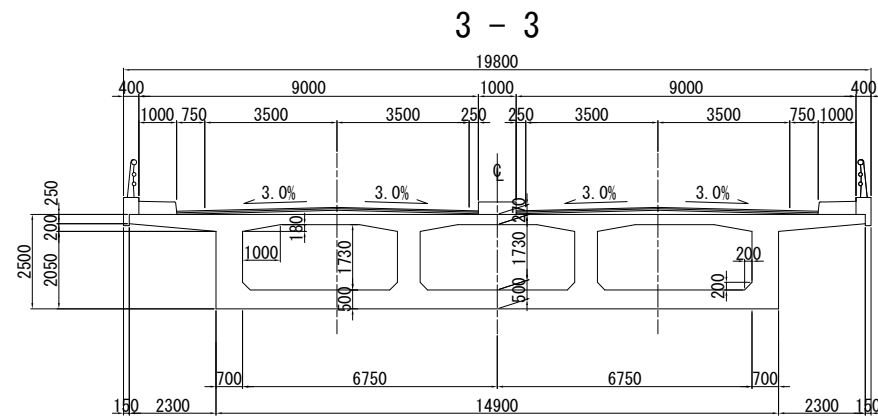
PLAN S = 1 : 400



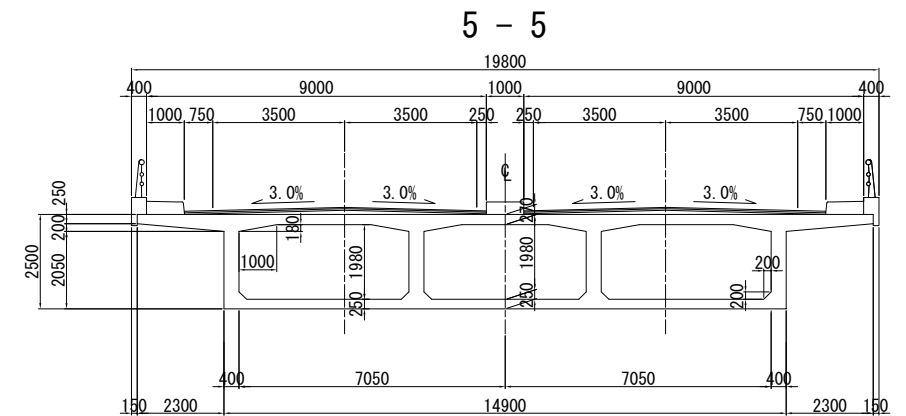
CROSS SECTION S = 1 : 100



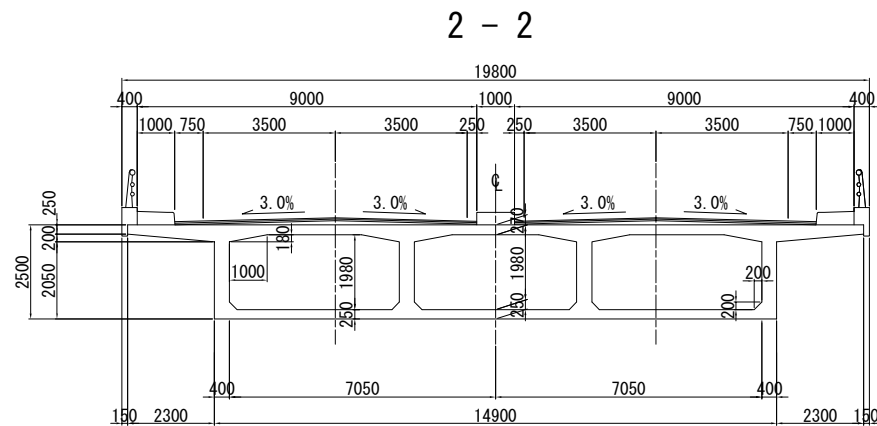
1 - 1



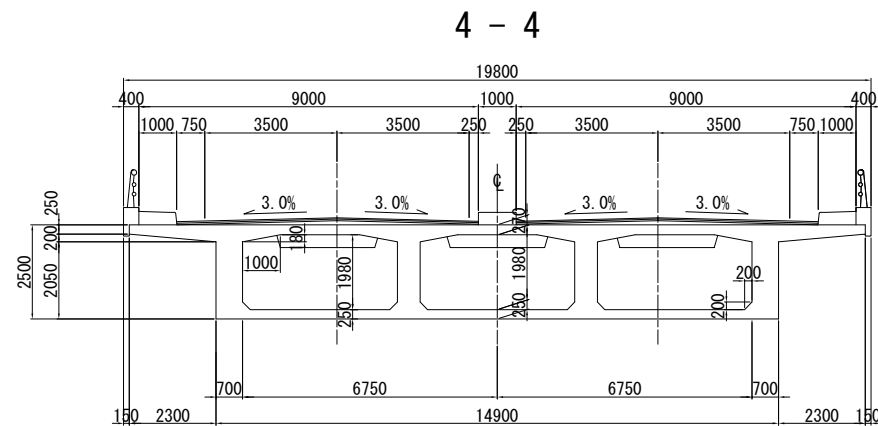
3 - 3



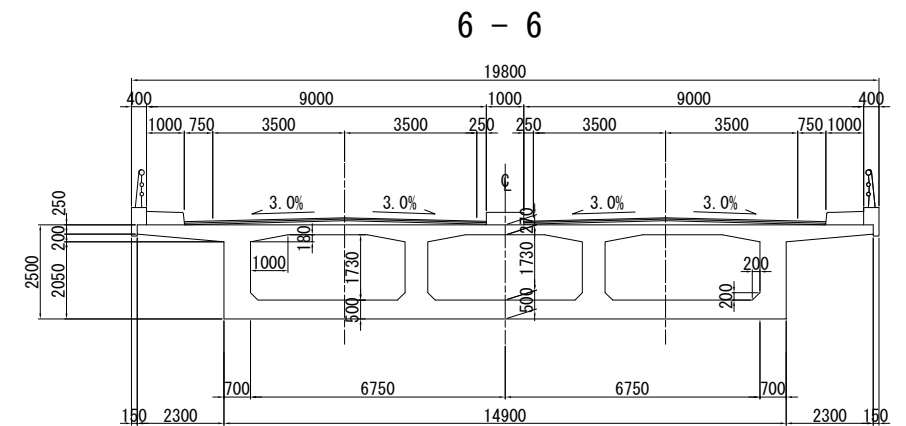
5 - 5



2 - 2

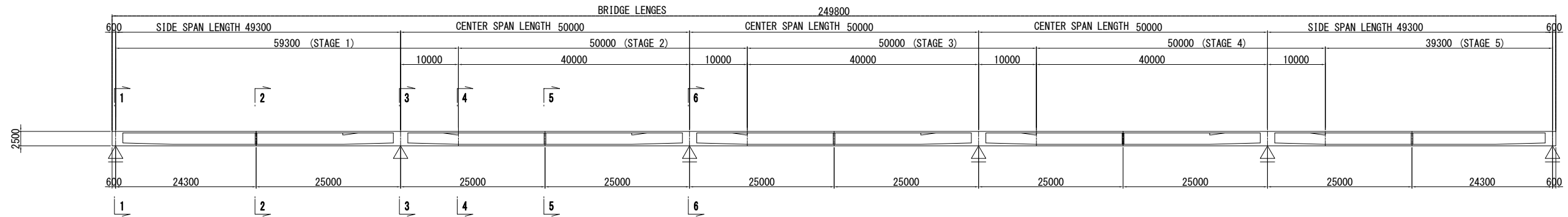


4 - 4

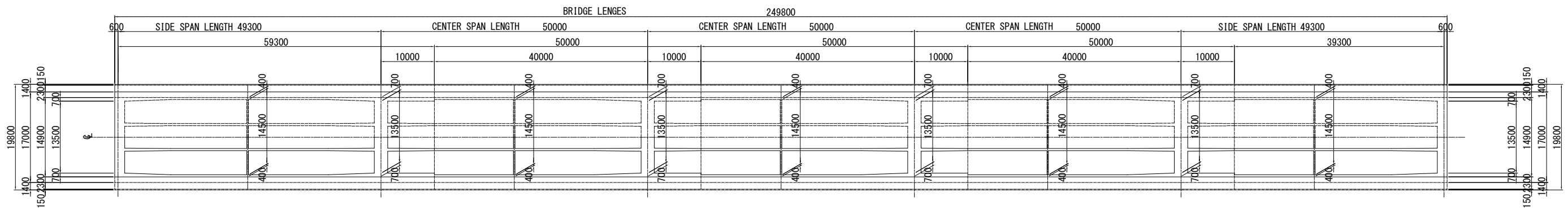


6 - 6

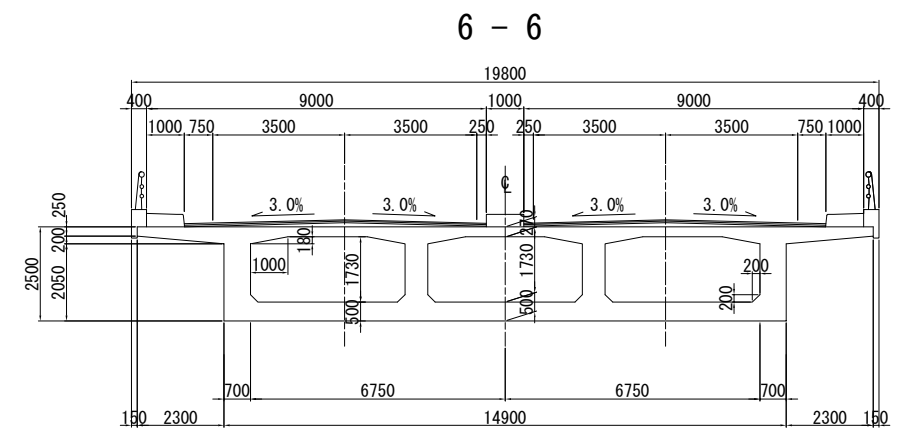
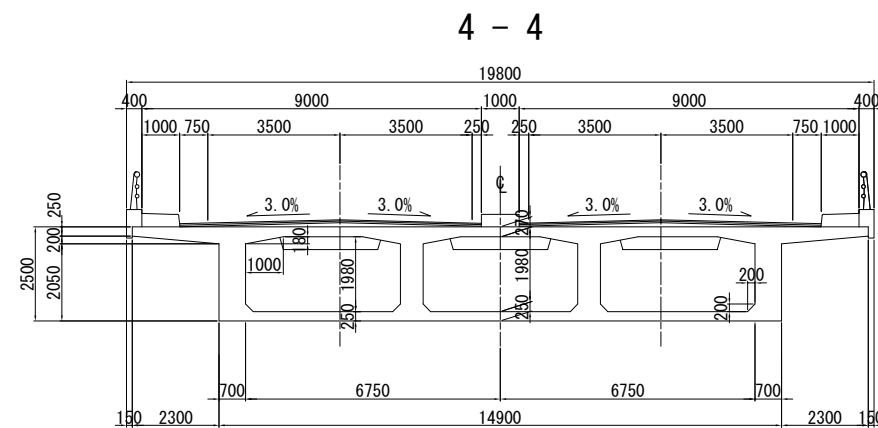
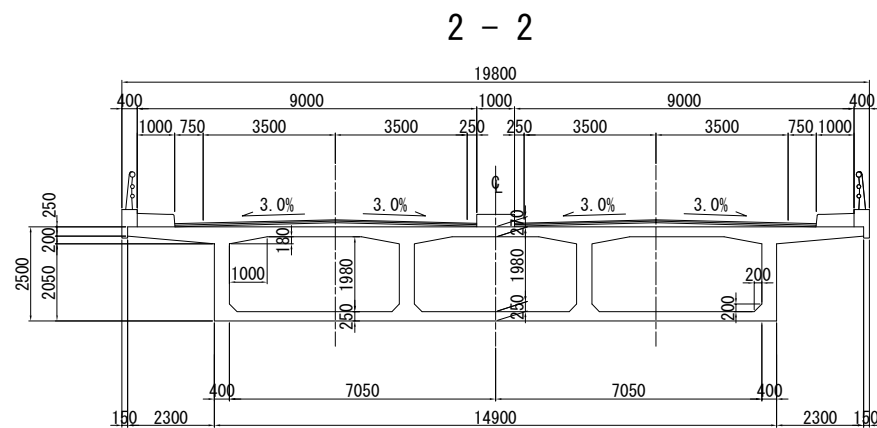
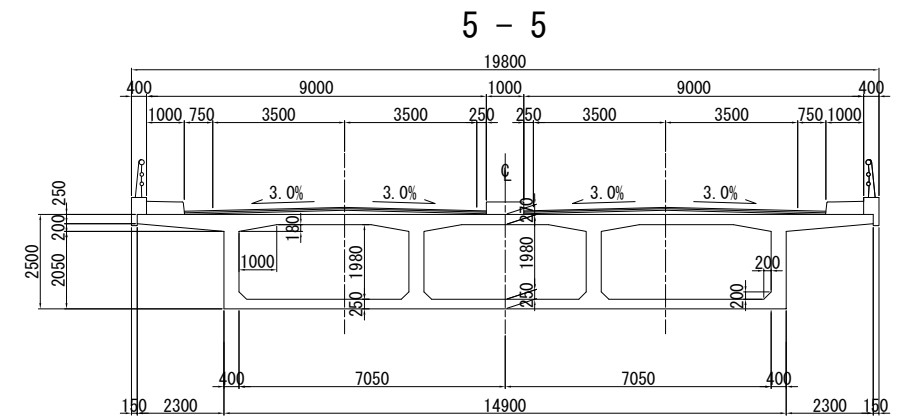
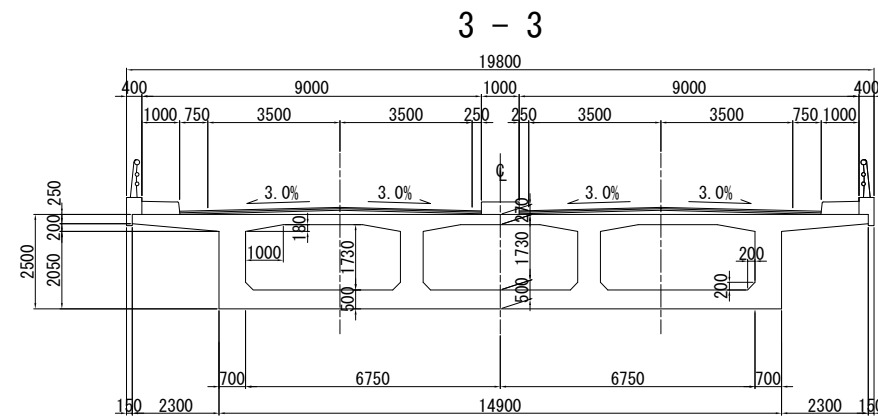
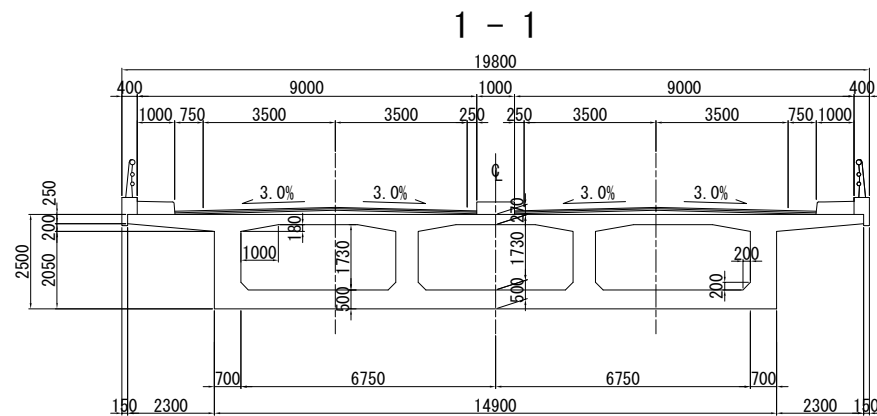
GENERAL PLAN OF SUPERSTRUCTURE (3)
 (GYAING KAWKAREIK BRIDGE)
5 SPAN CONTINUOUS BOX GIRDER Br.
 SIDE VIEW S = 1 : 400



PLAN S = 1 : 400

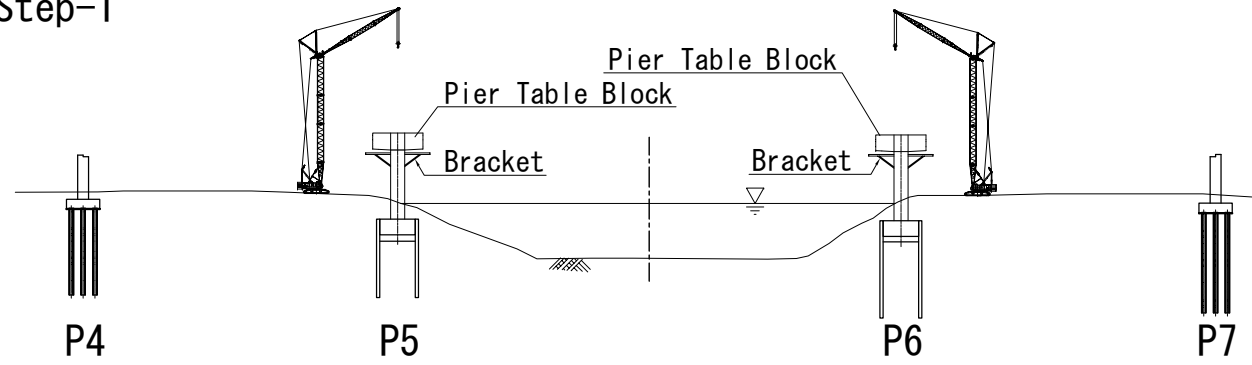


CROSS SECTION S = 1 : 100



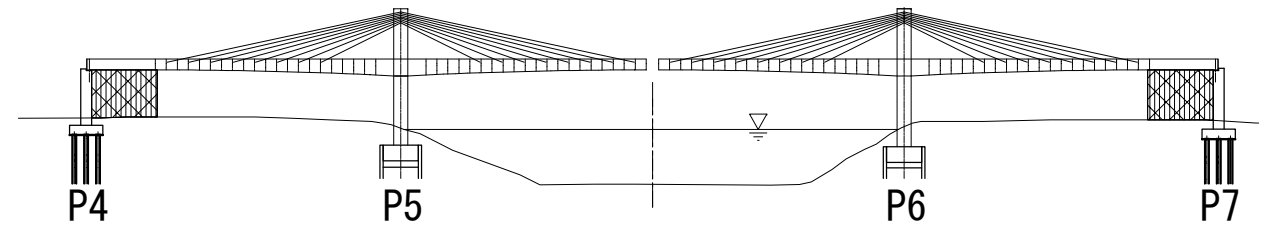
ERECTION PROCEDURE S=1/2400
(GYAING KAWKAREIK BRIDGE)

Step-1



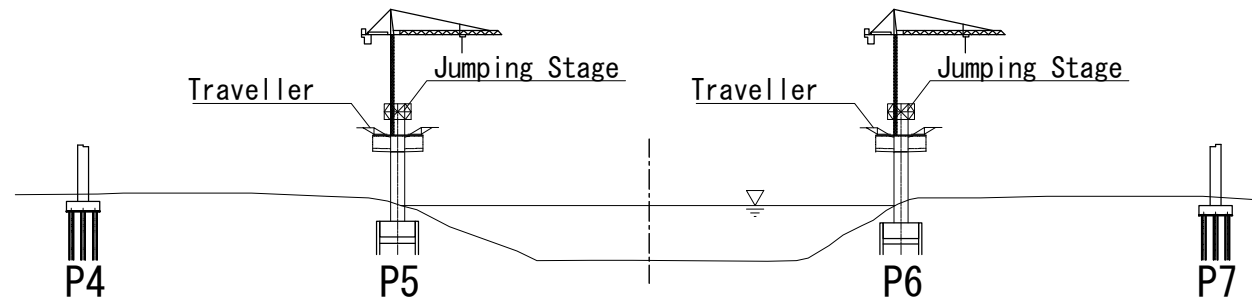
- Set temporary PC bar on the Pier top, and assemble bracket.
- Construct pier table on the bracket, and temporarily fixing the pier table and the pier.

Step-4



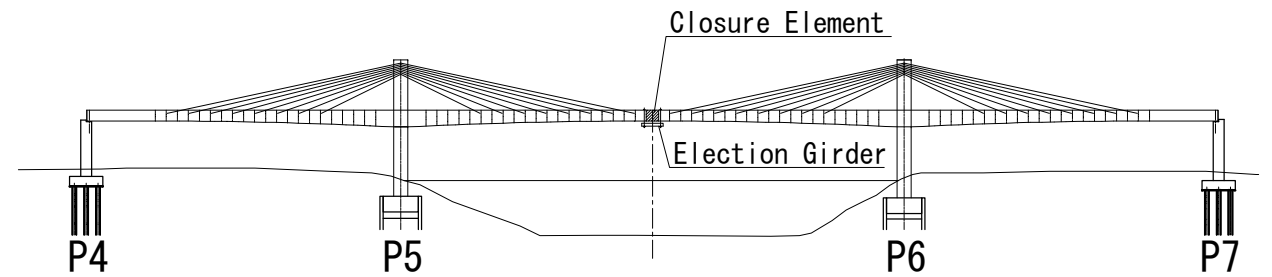
- At the extremities of the side spans, the bridge deck will be cast on scaffolding.

Step-2



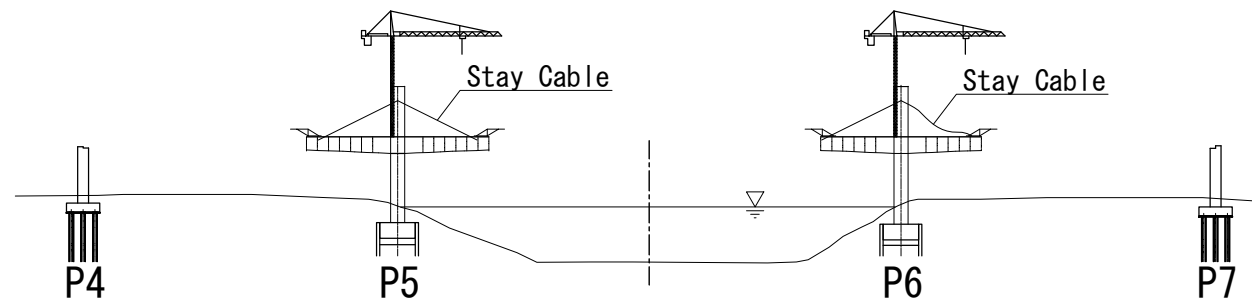
- Is carried out prior to the main girder constructed, erect the pylons.
- Assemble the traveller on the pier table

Step-5



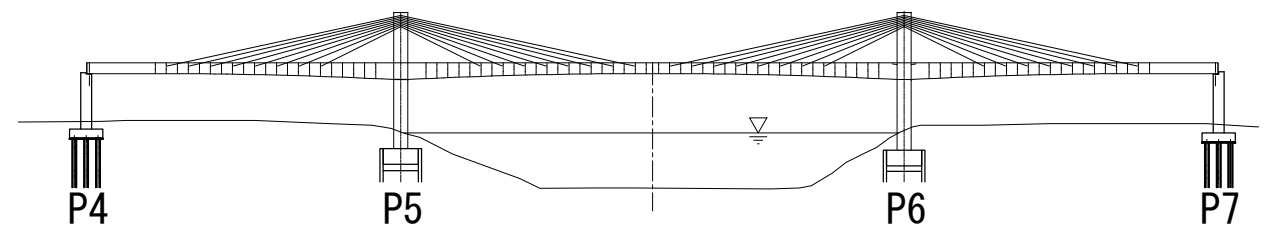
- Finally construct closure element on the erection girder.

Step-3



- Continue cantilever erection to the first stay cable
- Assemble the first stay cable, and prestressing

Step-6



- Erection is completed

SUBSTRUCTURE AND FOUNDATION (1)
(GAING KAWKAREIK BRIDGE)

A1
Scale 1:400

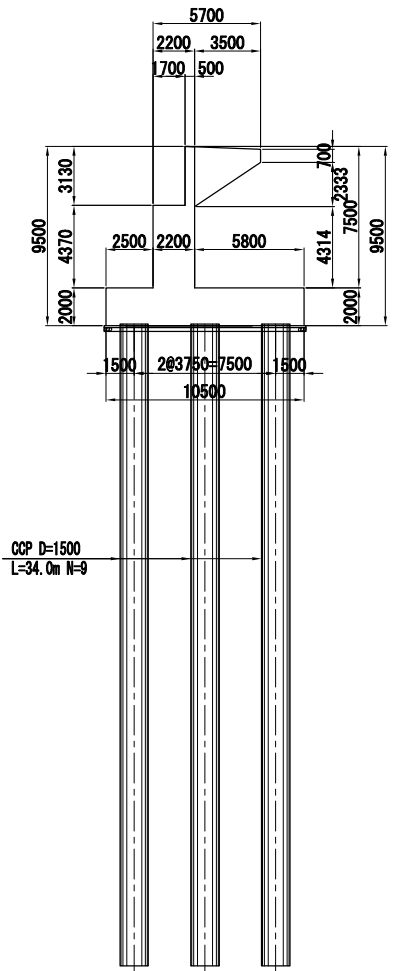
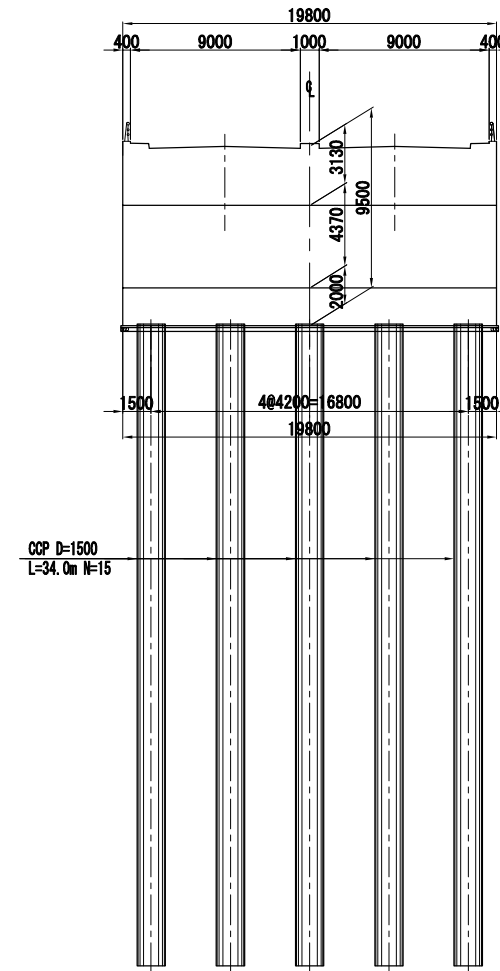
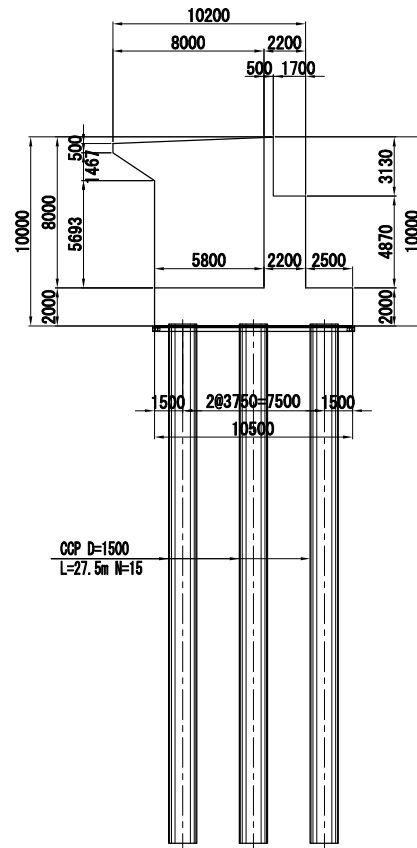
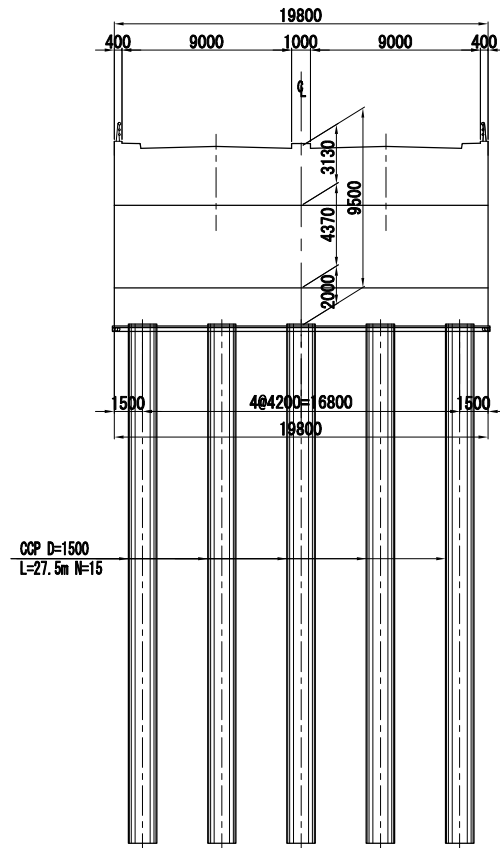
A2
Scale 1:400

FRONT VIEW

SIDE VIEW

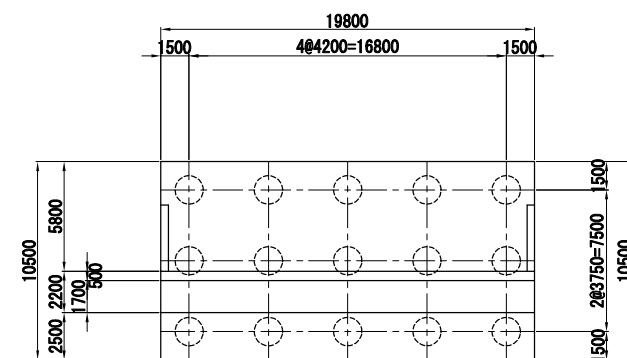
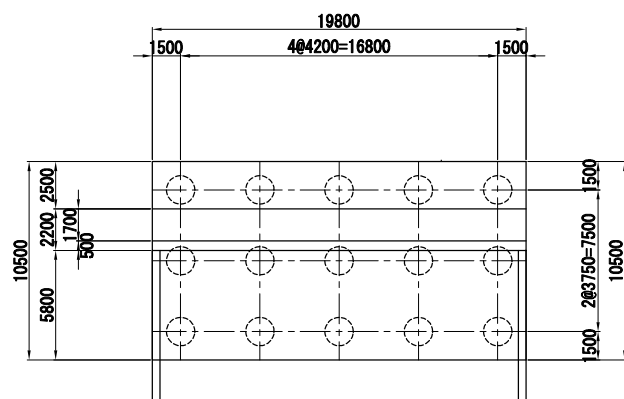
FRONT VIEW

SIDE VIEW



PLAN VIEW

PLAN VIEW

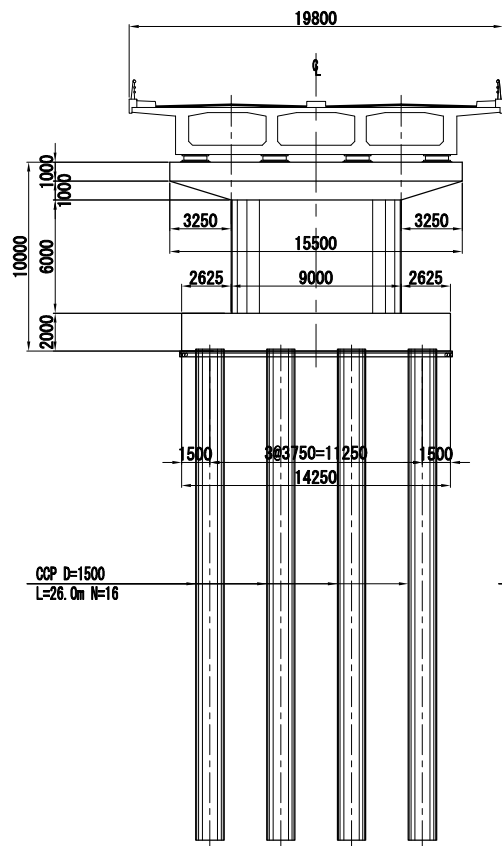


SUBSTRUCTURE AND FOUNDATION (2)

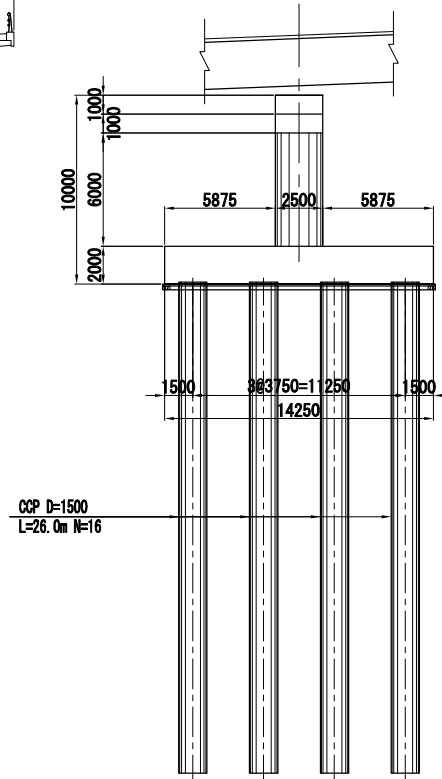
(GAING KAWKAREIK BRIDGE)

P1
Scale 1:400

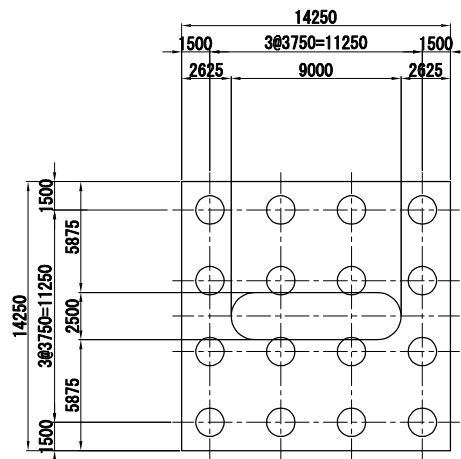
FRONT VIEW



SIDE VIEW

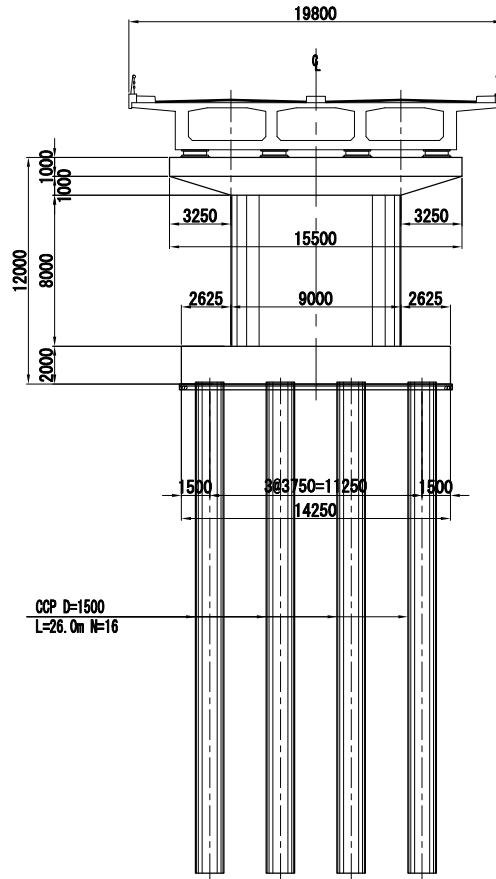


PLAN VIEW

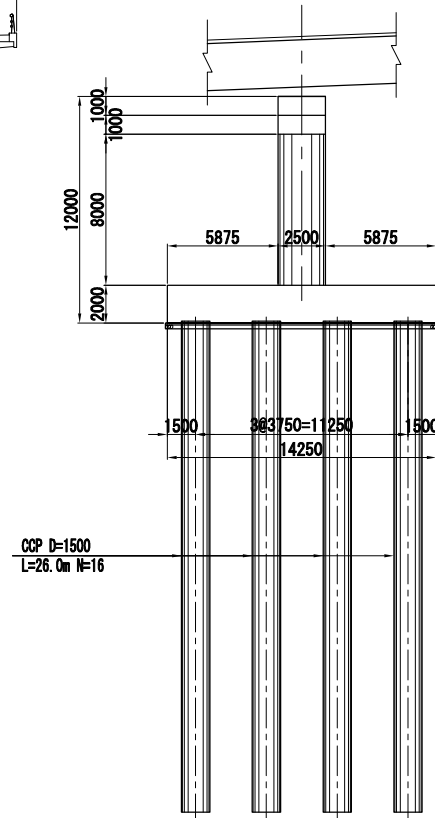


P2
Scale 1:400

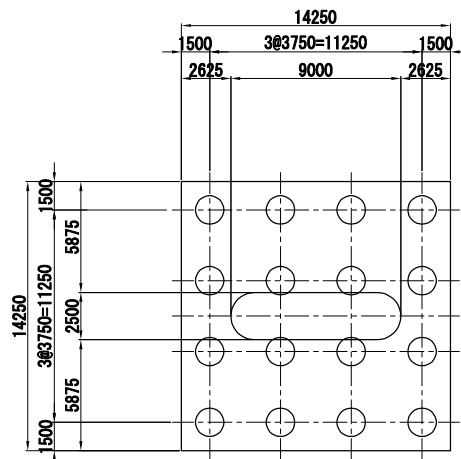
FRONT VIEW



SIDE VIEW

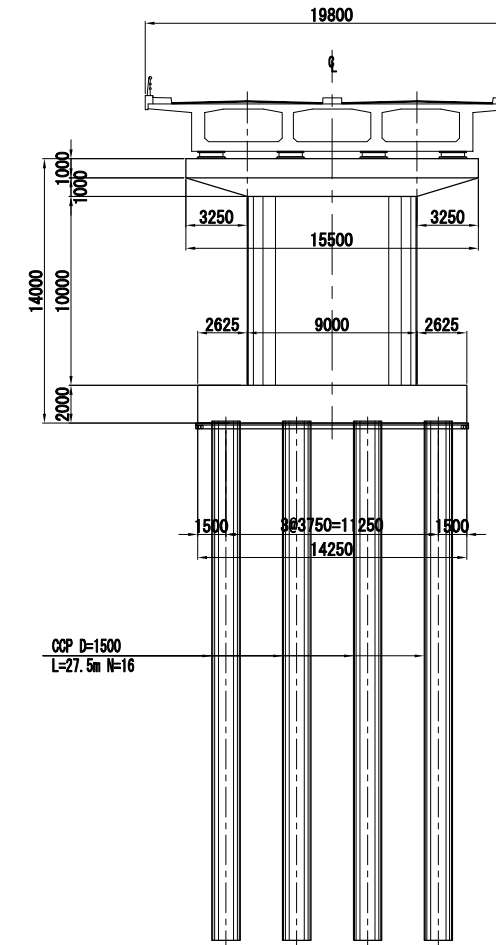


PLAN VIEW

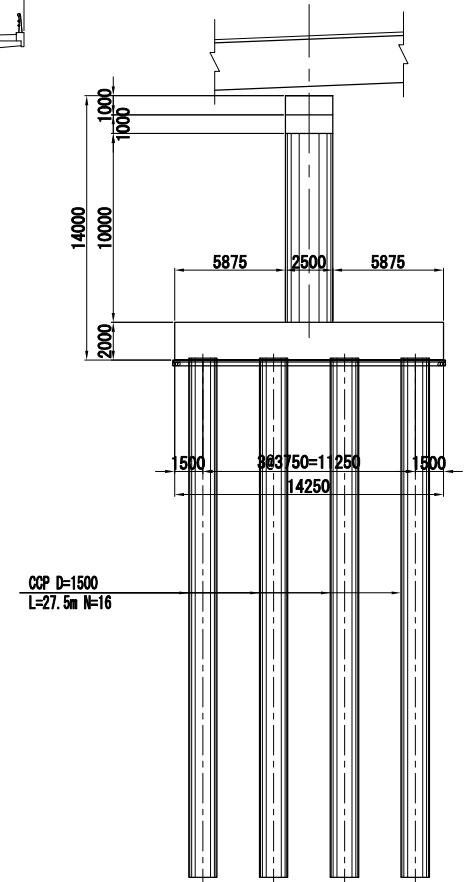


P3
Scale 1:400

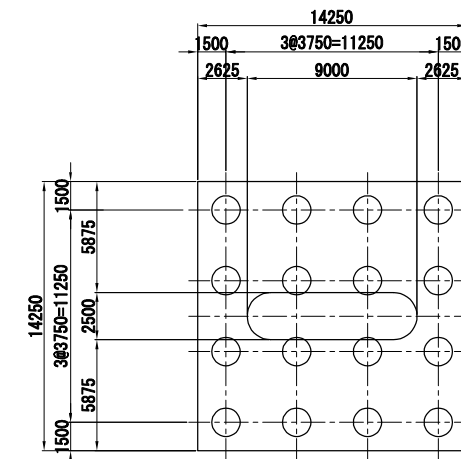
FRONT VIEW



SIDE VIEW



PLAN VIEW



SUBSTRUCTURE AND FOUNDATION (3)
(GAING KAWKAREIK BRIDGE)

P4
Scale 1:400

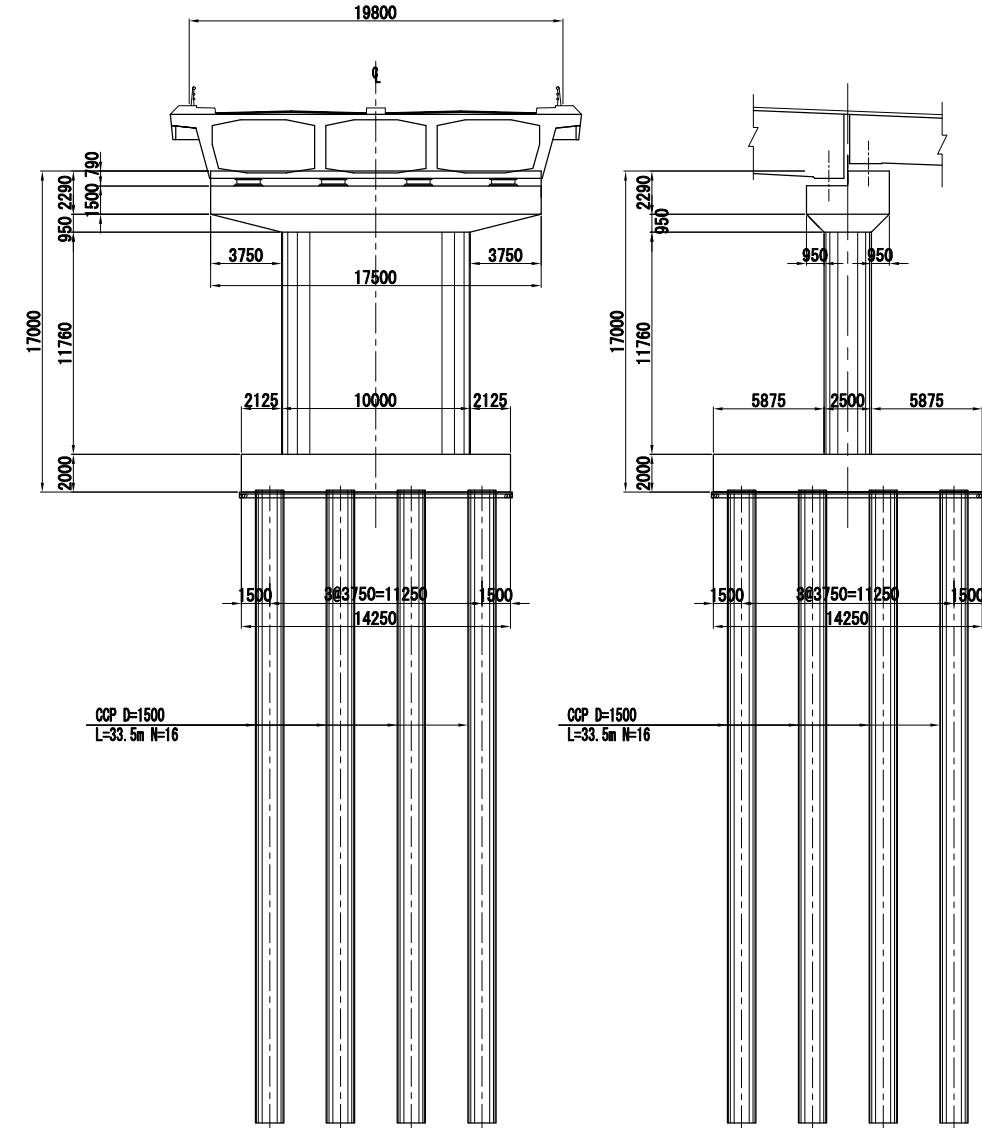
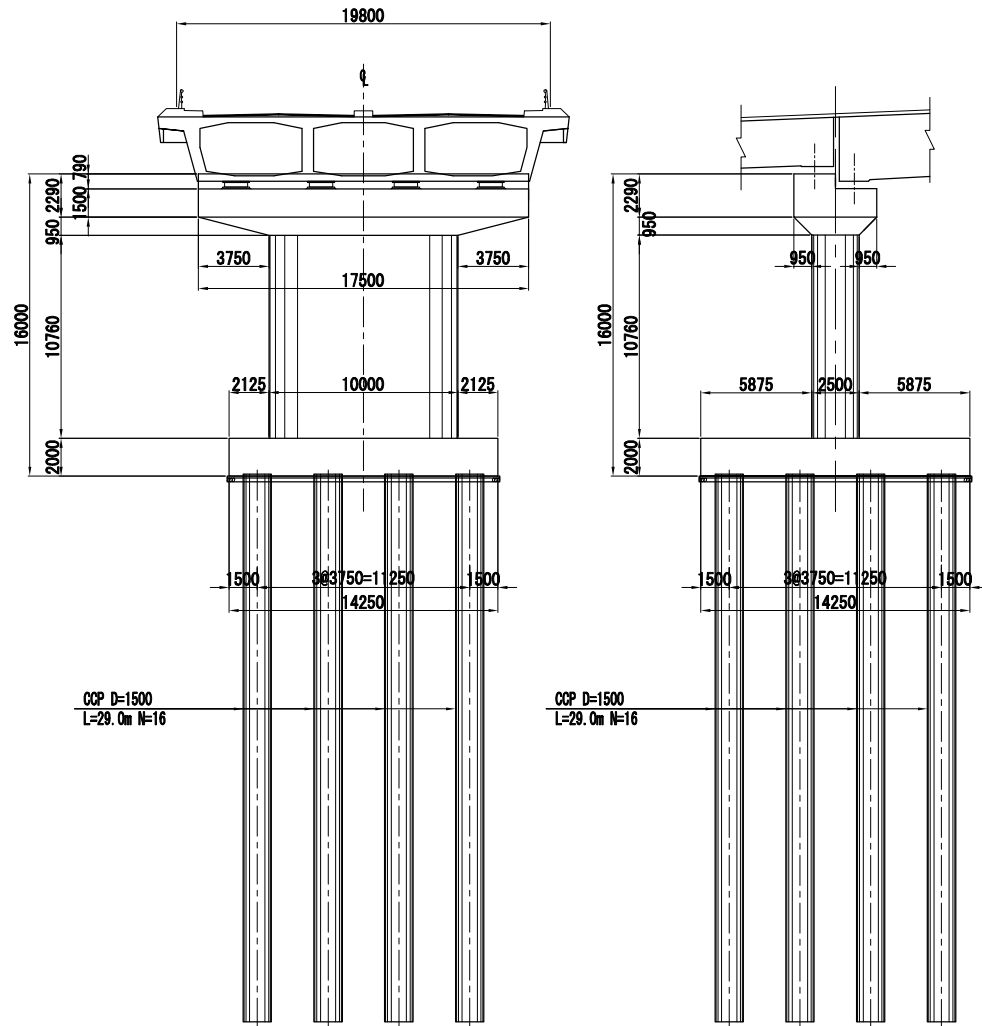
P7
Scale 1:400

FRONT VIEW

SIDE VIEW

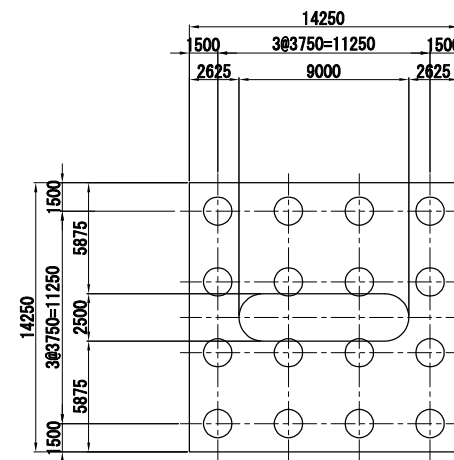
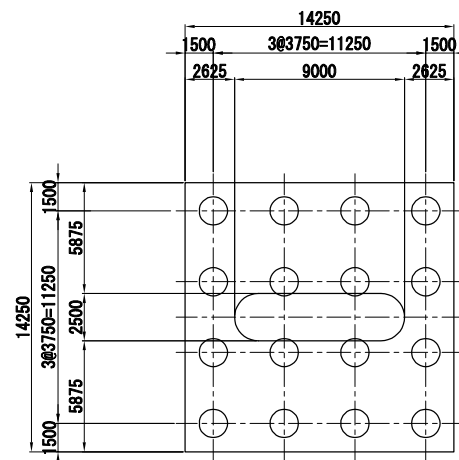
FRONT VIEW

SIDE VIEW



PLAN VIEW

PLAN VIEW



REMARKS

THE PROJECT FOR STRENGTHENING CONNECTIVITY
OF INTERNATIONAL HIGHWAY IN MEKONG REGION

DRAWING TITLE
SUBSTRUCTURE AND FOUNDATION (3)

SCALE	1/400
DRAWING NO.	C-5-3
SHEET NO.	

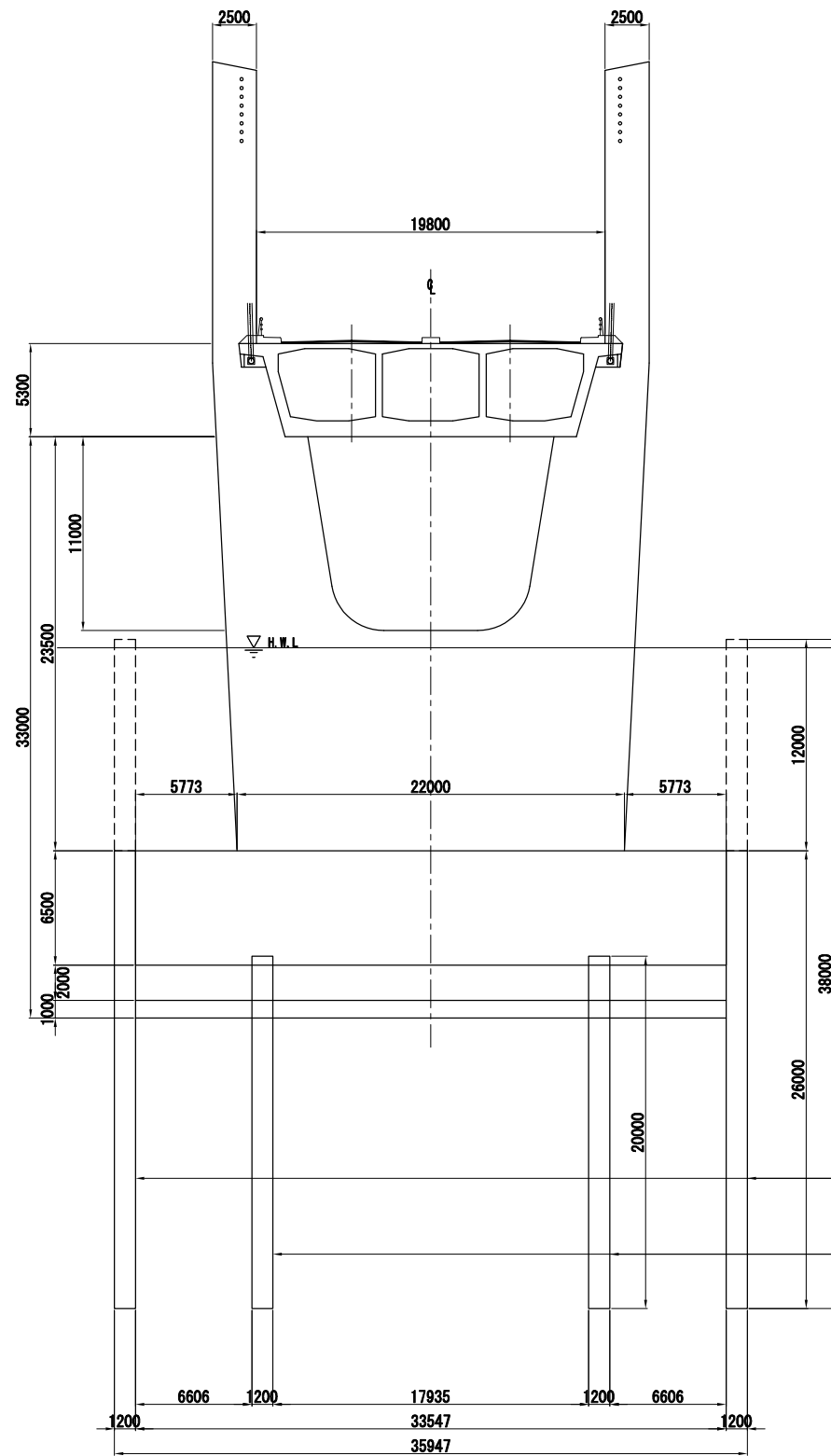
SUBSTRUCTURE AND FOUNDATION (4)
(GAING KAWKAREIK BRIDGE)

P5

Scale 1:400

FRONT VIEW

SIDE VIEW



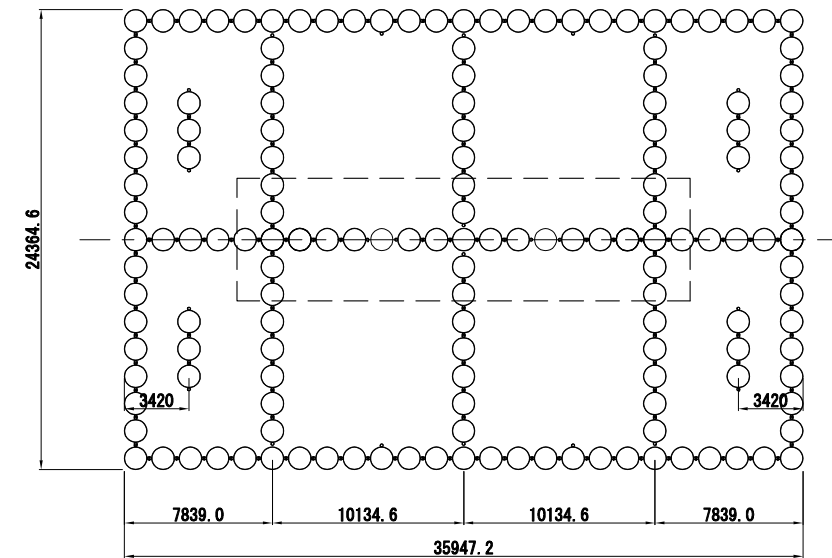
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L=38.0m N=80

SPSP D=1200 t=16
L=20.5m N=77

SPSP D=1200 t=16
L=38.0m N=80

SPSP D=1200 t=16
L=20.5m N=77

PLAN VIEW



SUBSTRUCTURE AND FOUNDATION (5)

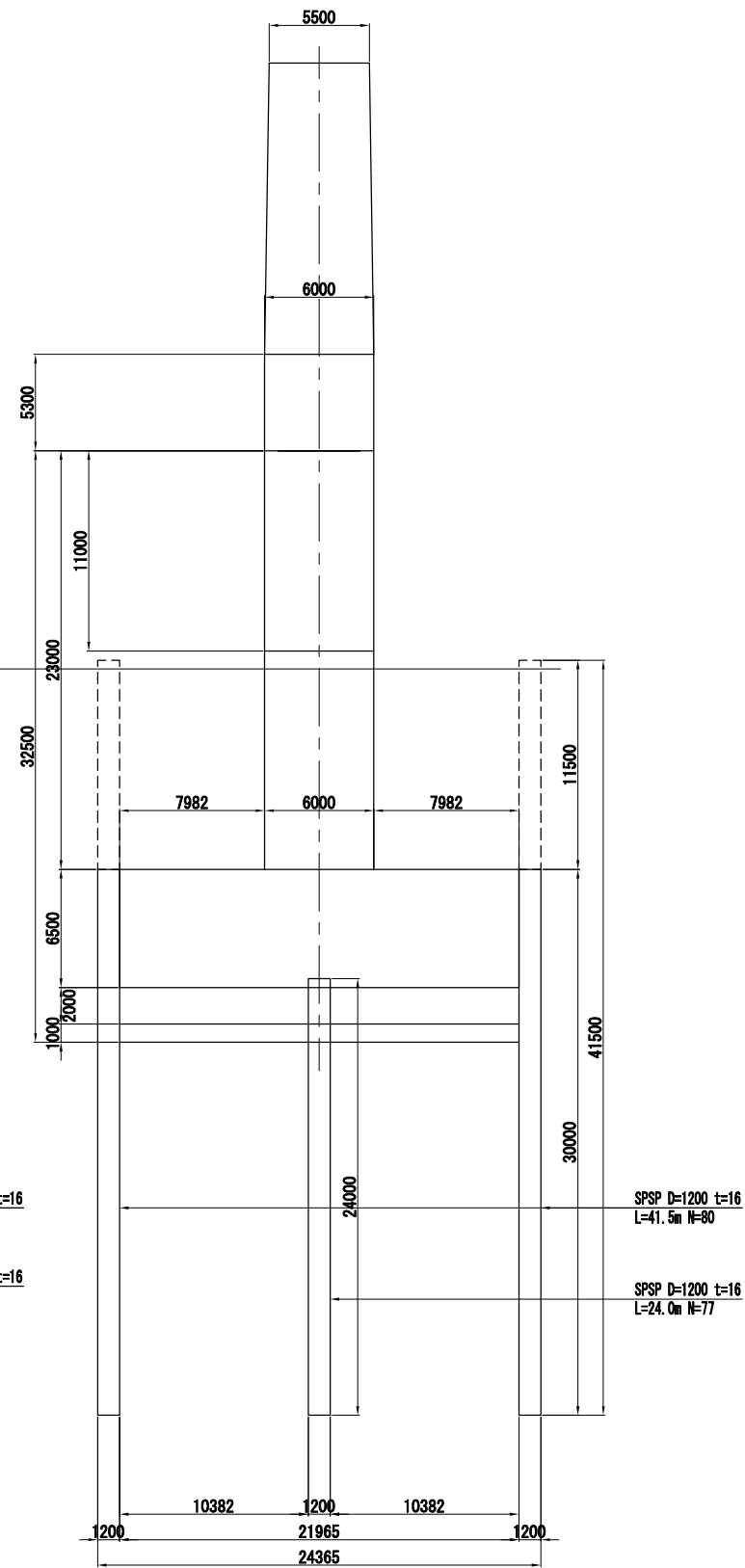
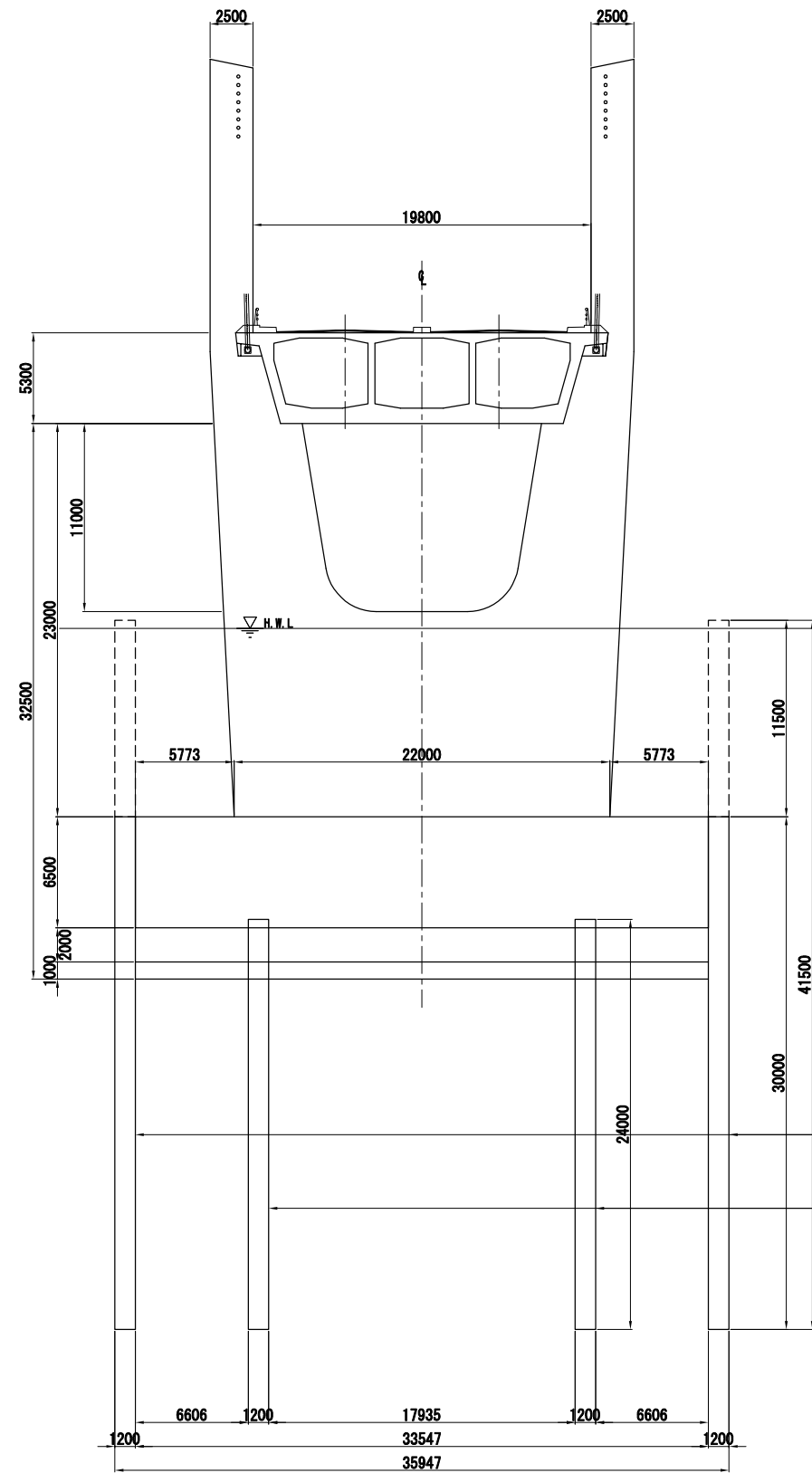
(GAING KAWKAREIK BRIDGE)

P6

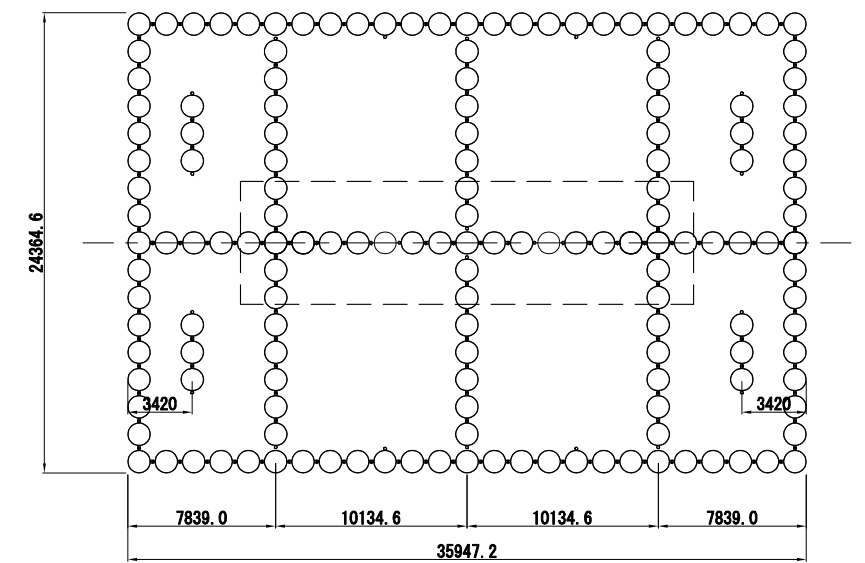
Scale 1:400

FRONT VIEW

SIDE VIEW



PLAN VIEW



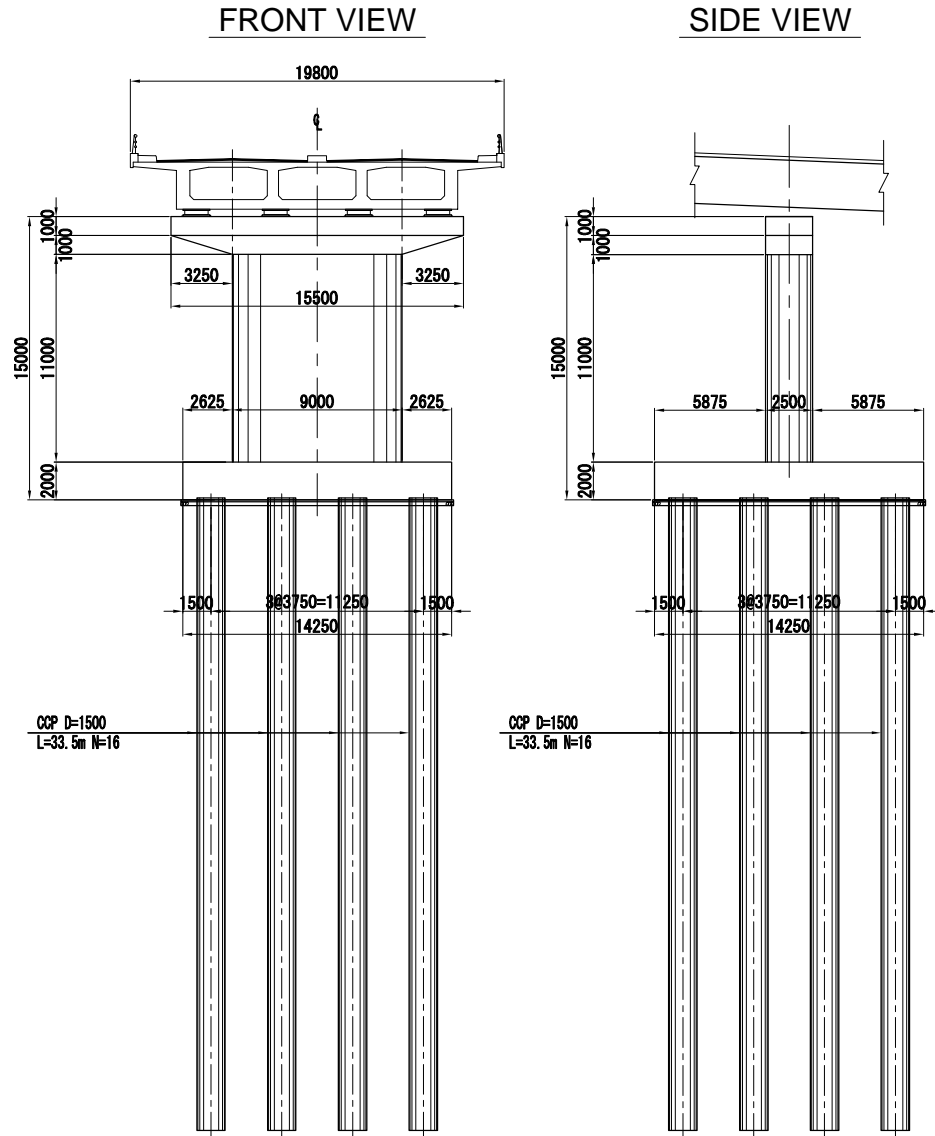
REMARKS

THE PROJECT FOR STRENGTHENING CONNECTIVITY
OF INTERNATIONAL HIGHWAY IN MEKONG REGION

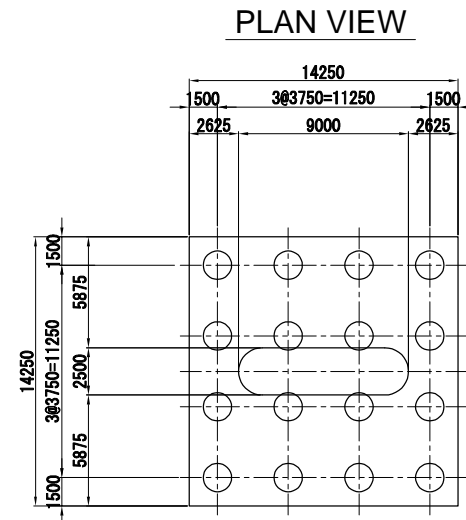
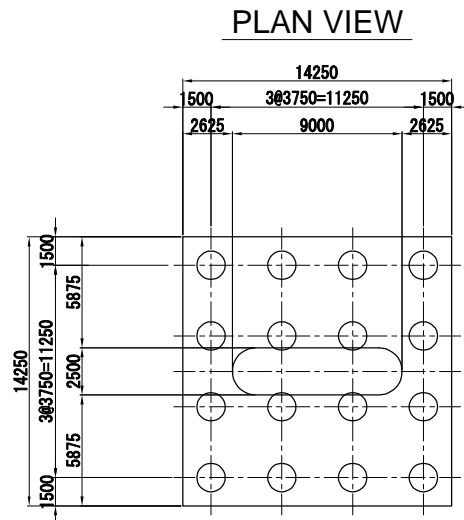
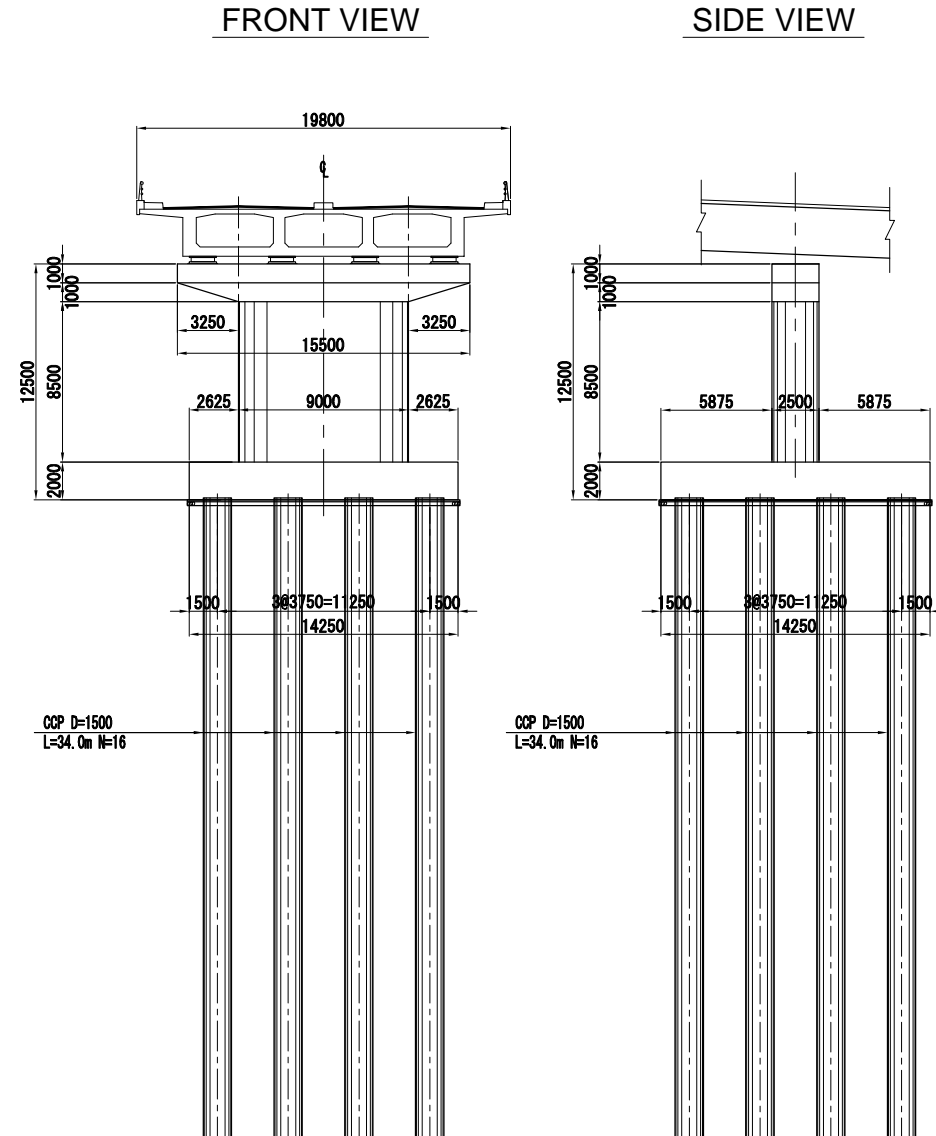
DRAWING TITLE	SCALE	1/400
SUBSTRUCTURE AND FOUNDATION (5)	DRAWING NO.	C-5-5
	SHEET NO.	

SUBSTRUCTURE AND FOUNDATION (6)
(GAING KAWKAREIK BRIDGE)

P8
Scale 1:400



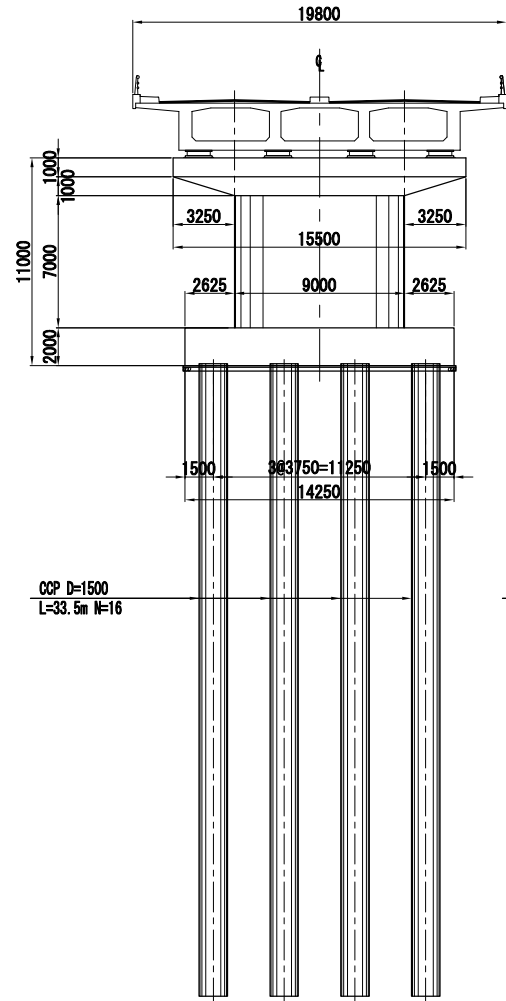
P9
Scale 1:400



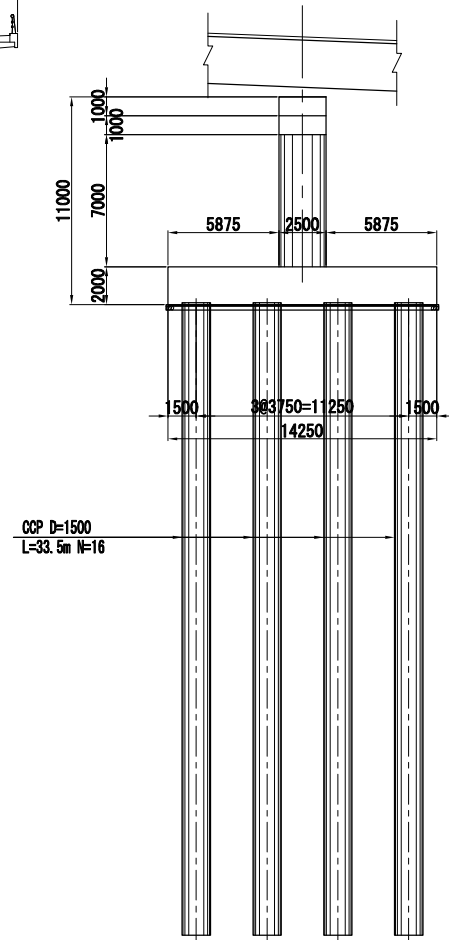
SUBSTRUCTURE AND FOUNDATION (7)
(GAING KAWKAREIK BRIDGE)

P10
Scale 1:400

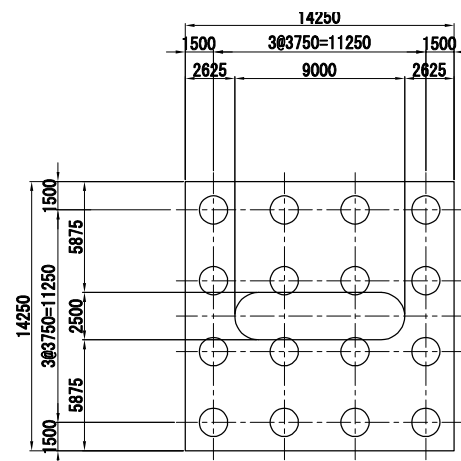
FRONT VIEW



SIDE VIEW

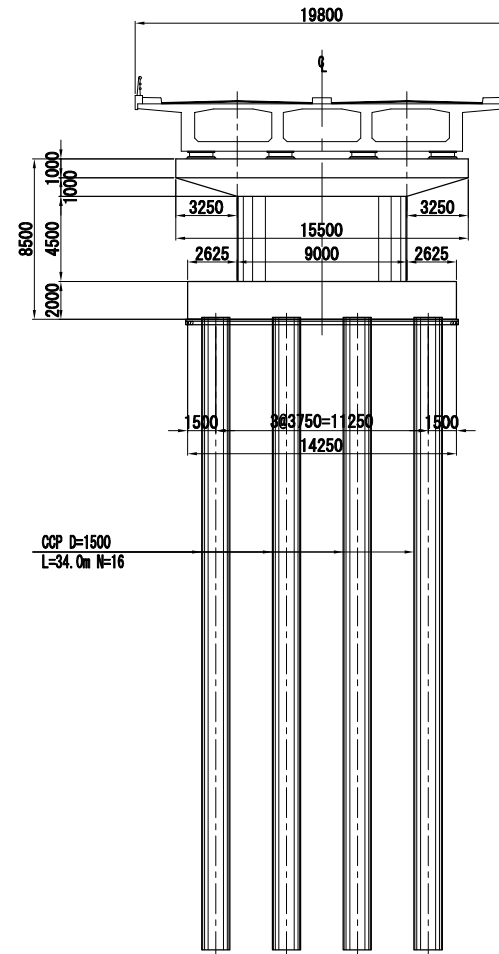


PLAN VIEW

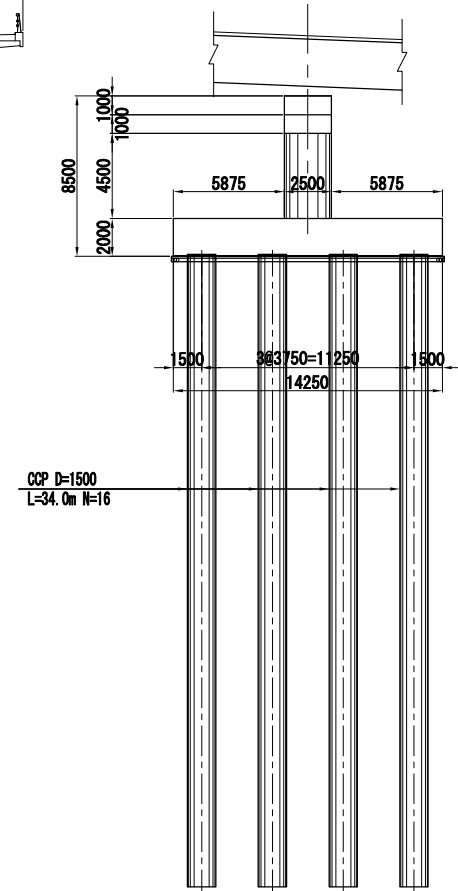


P11
Scale 1:400

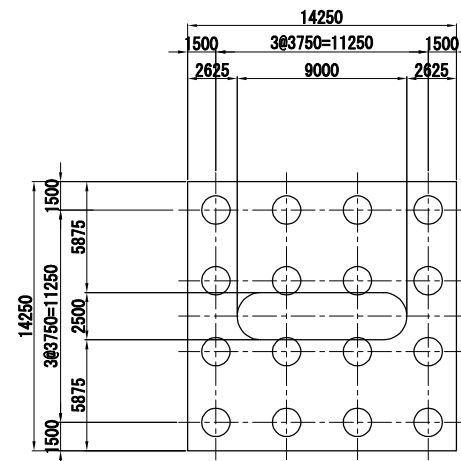
FRONT VIEW



SIDE VIEW



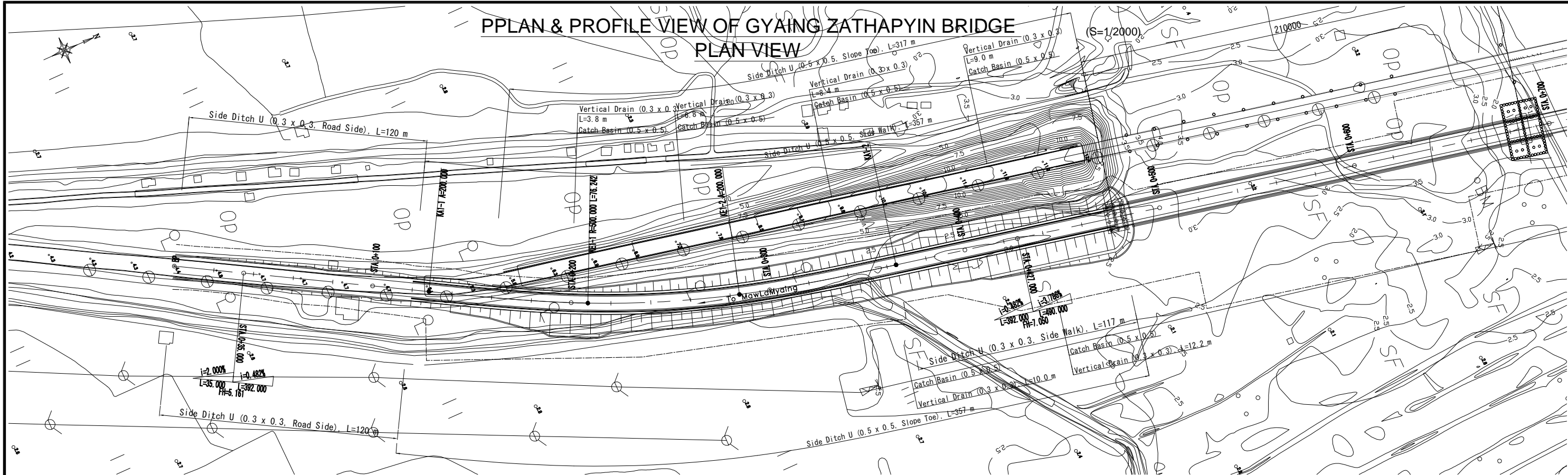
PLAN VIEW



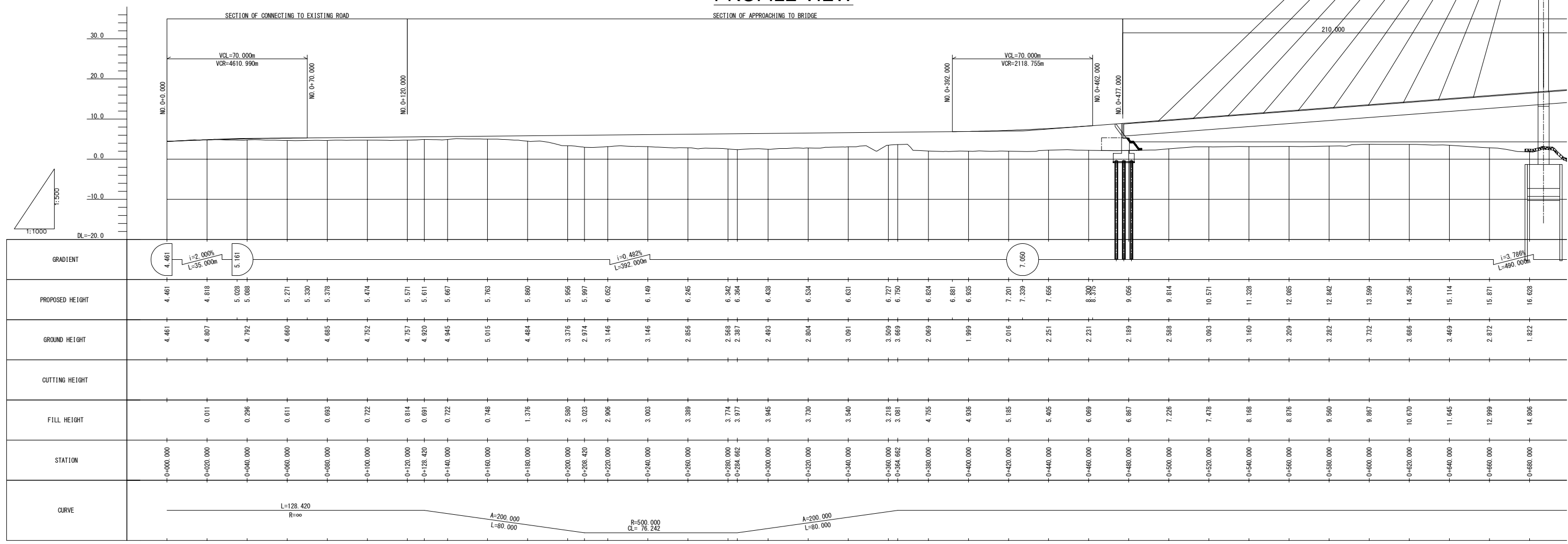
(D) GYAING ZATHAPYIN BRIDGE

PPLAN & PROFILE VIEW OF GYAING ZATHAPYIN BRIDGE

PLAN VIEW

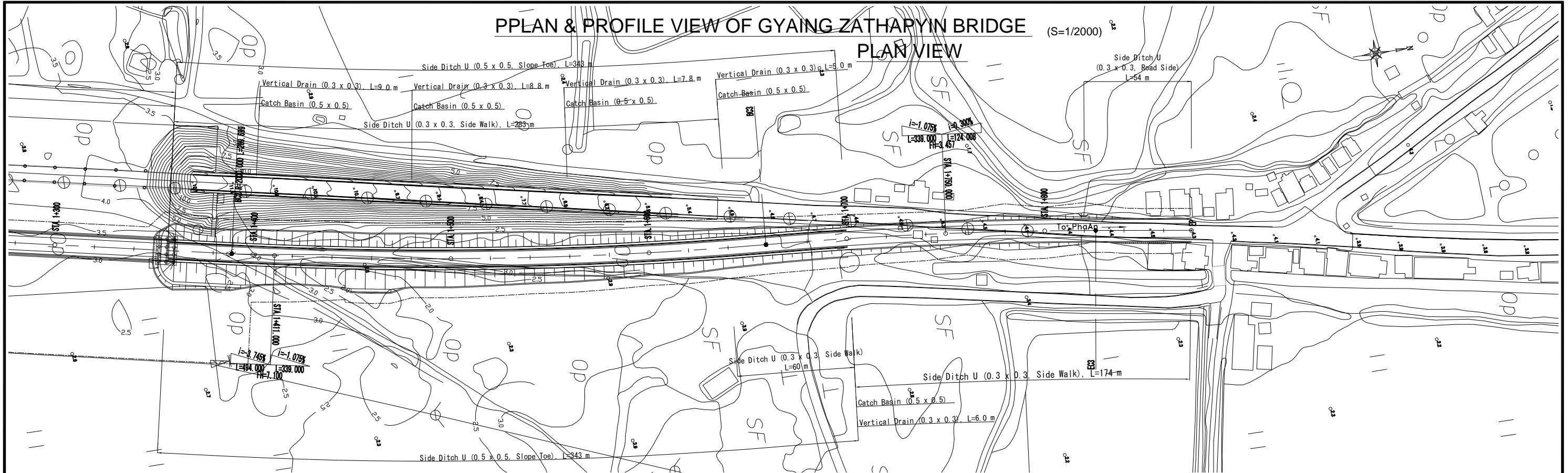


PROFILE VIEW

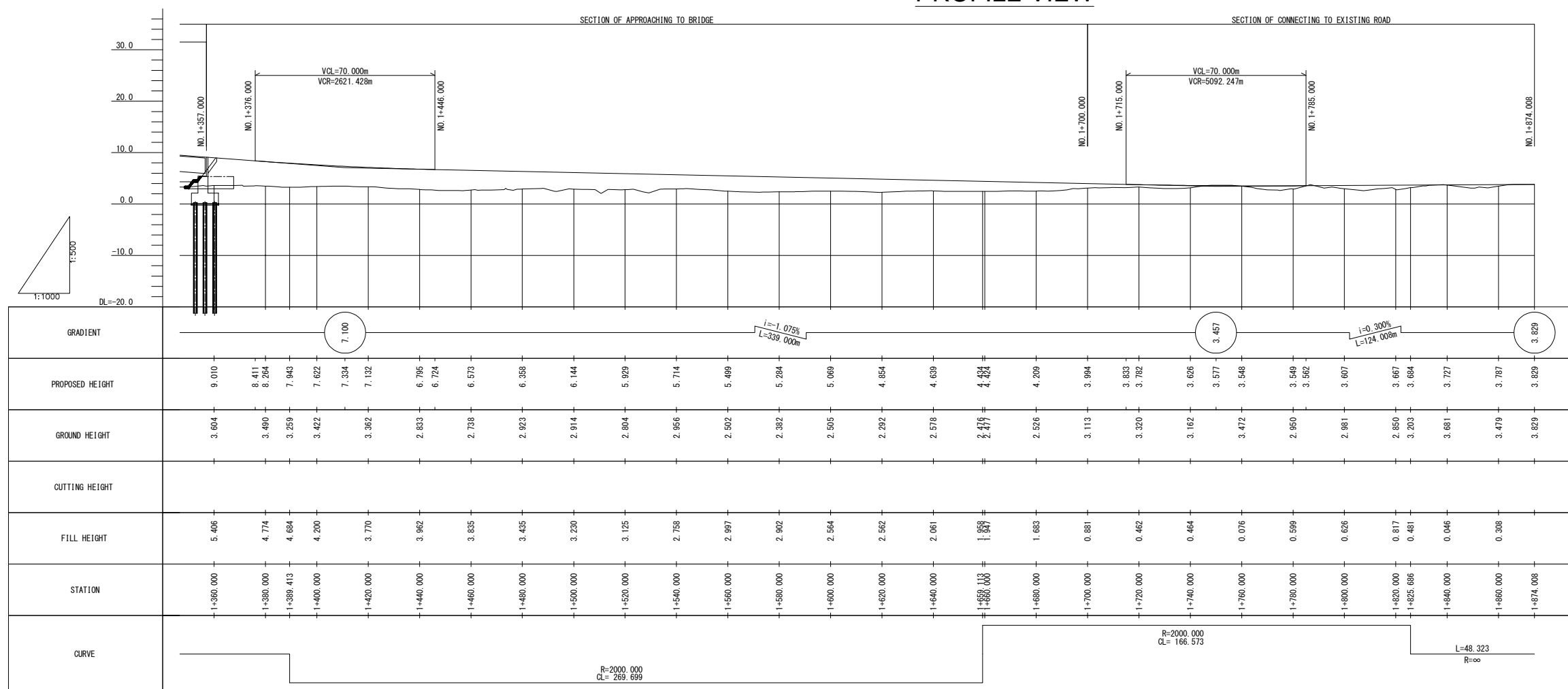


PPLAN & PROFILE VIEW OF GYAING ZATHAPYIN BRIDGE (S=1/2000)

PLAN VIEW



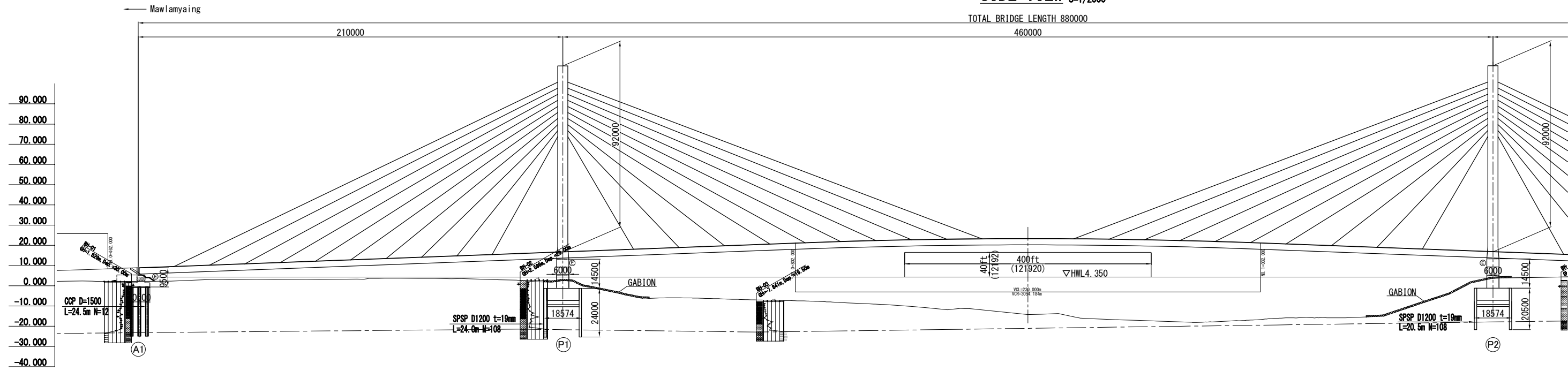
PROFILE VIEW



GENERAL VIEW
(GYAING ZATHAPYIN BRIDGE)

SIDE VIEW S=1/2000

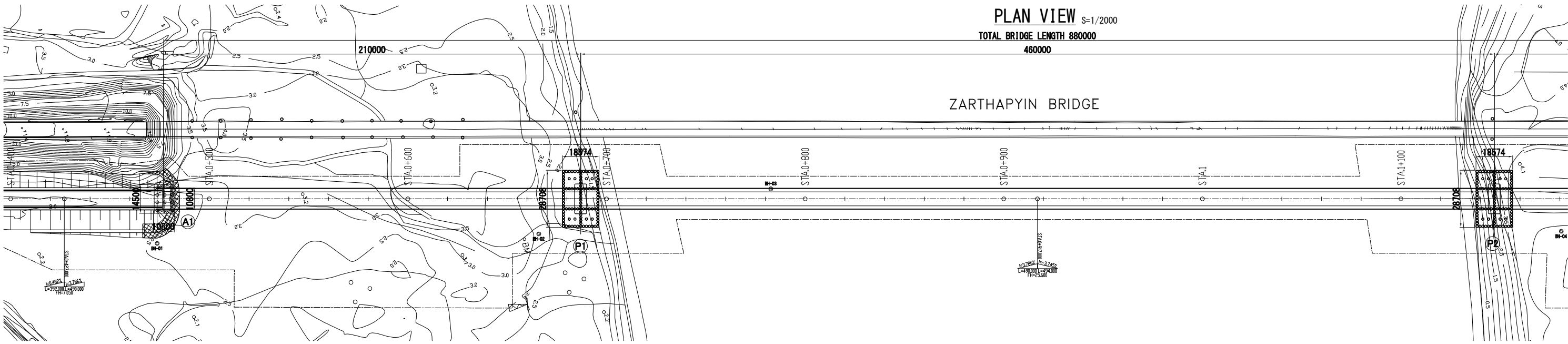
TOTAL BRIDGE LENGTH 880000
460000



GRADE																																																																
DESIGN LEVELS	8.300	9.056	9.814	10.571	11.328	12.085	12.842	13.599	14.356	15.114	15.871	16.628	17.385	18.142	18.899	19.656	20.414	21.171	21.928	22.685	23.442	24.199	24.956	25.714	26.471	27.228	27.985	28.742	29.499	30.256	31.014	31.771	32.528	33.285	34.042	34.799	35.556	36.314	37.071	37.828	38.585	39.342	40.099	40.856	41.614	42.371	43.128	43.885	44.642	45.399	46.156	46.914	47.671	48.428	49.185	49.942	50.699	51.456	52.214	52.971	53.728	54.485	55.242	56.000
EXISTING HEIGHT	2.231	2.189	2.588	3.083	3.160	3.209	3.282	3.732	3.686	3.469	2.872	1.822	-0.734	-4.982	-5.912	-6.280	-6.920	-7.309	-8.032	-8.990	-10.245	-11.338	-12.201	-14.132	-15.392	-16.894	-17.372	-18.088	-17.170	-16.070	-15.782	-15.572	-12.826	-5.967	2.222	4.011	4.359																											
DISTANCE		17.000	3.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	7.000	13.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	7.000	13.000	20.000																										
CHAINAGE	0+460.000	0+477.000	0+480.000	0+500.000	0+520.000	0+540.000	0+560.000	0+580.000	0+600.000	0+620.000	0+640.000	0+660.000	0+680.000	0+687.000	0+700.000	0+720.000	0+740.000	0+760.000	0+780.000	0+800.000	0+820.000	0+840.000	0+860.000	0+880.000	0+900.000	0+920.000	0+940.000	0+960.000	0+980.000	1+000.000	1+020.000	1+040.000	1+060.000	1+080.000	1+100.000	1+120.000	1+140.000	1+147.000	1+160.000	1+180.000																								
CURVE ELEMENT	R=∞ L=1024.751																																																															

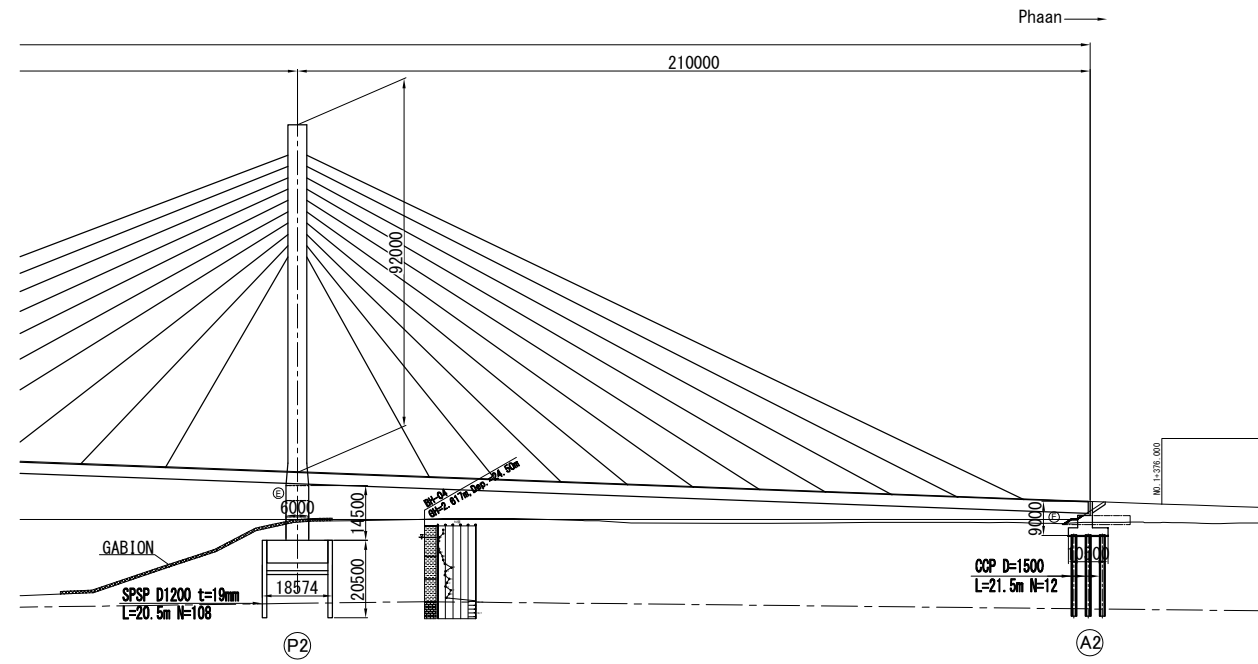
PLAN VIEW S=1/2000

TOTAL BRIDGE LENGTH 880000
460000



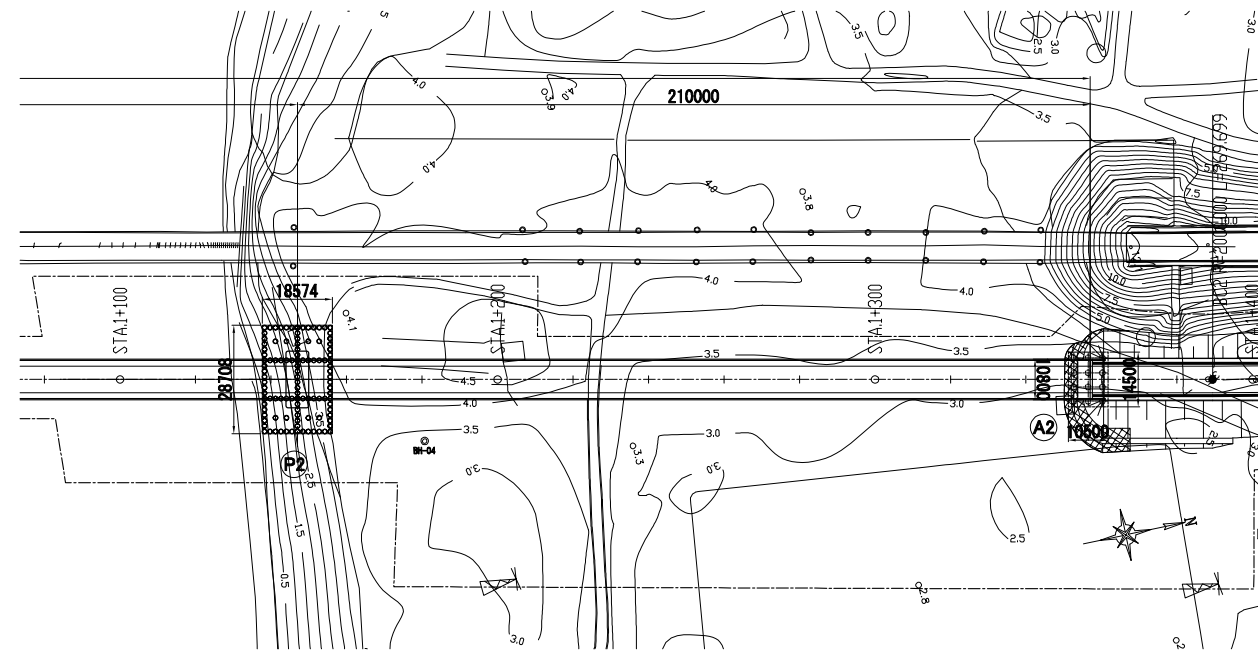
GENERAL VIEW
(GYAING ZATHAPYIN BRIDGE)

S=1/2000

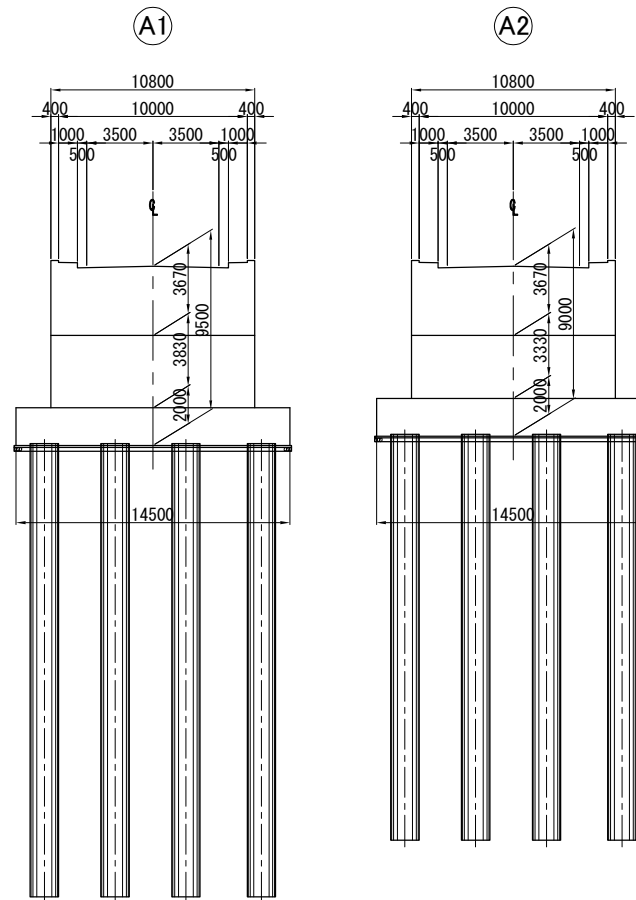
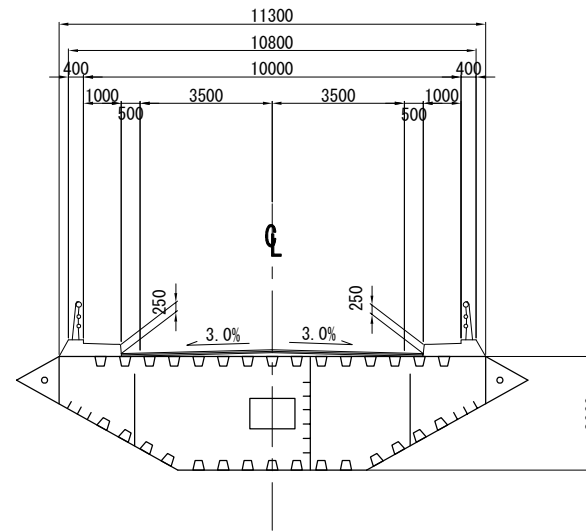


$i = -3.745\%$
 $L = 494.000m$

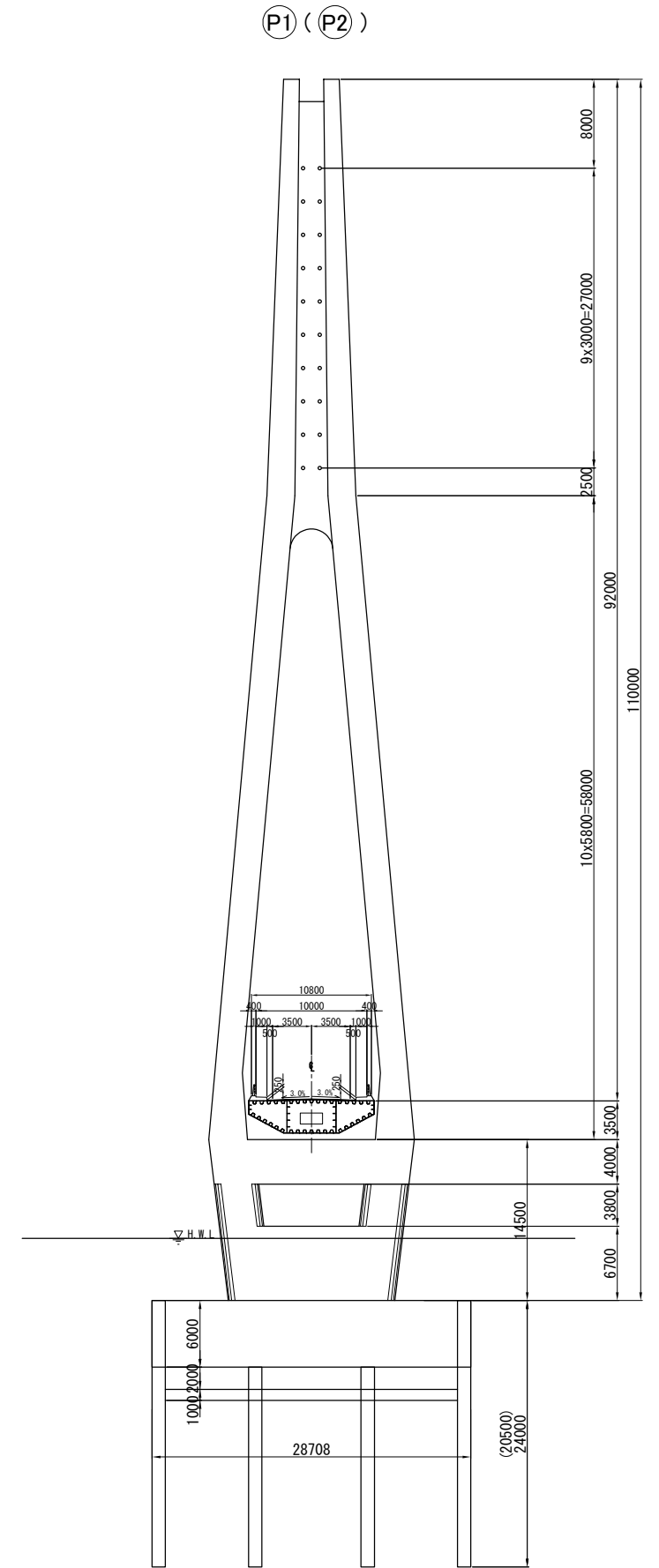
19.496	18.747	17.998	17.249	16.500	15.751	15.002	14.253	13.504	12.755	12.006	11.257	10.508	9.759	9.010	8.264
-15.572	-12.826	-5.967	2.222	4.011	4.359	4.614	4.139	3.387	3.340	3.390	3.543	3.532	3.431	3.604	3.400
20.000	20.000	20.000	20.000	7.000	13.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	17.000	20.000
1+080.000	1+100.000	1+120.000	1+140.000	1+147.000	1+160.000	1+180.000	1+200.000	1+220.000	1+240.000	1+260.000	1+280.000	1+300.000	1+320.000	1+340.000	1+380.000



SUPERSTRUCTURE CROSS SECTION S=1/200



SUBSTRUCTURE FRONT VIEW S=1/600

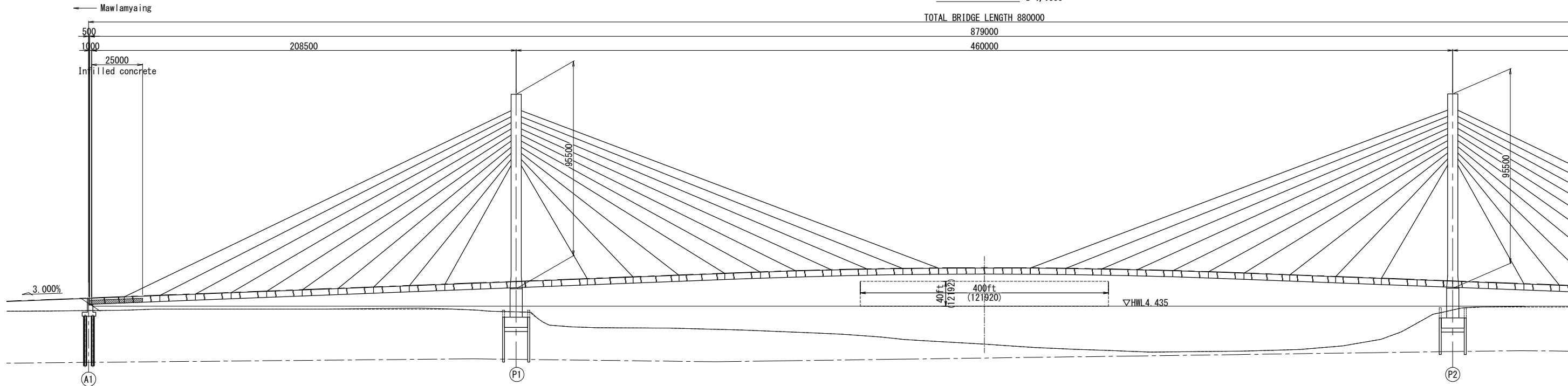


THE PROJECT FOR STRENGTHENING CONNECTIVITY
OF INTERNATIONAL HIGHWAY IN MEKONG REGION

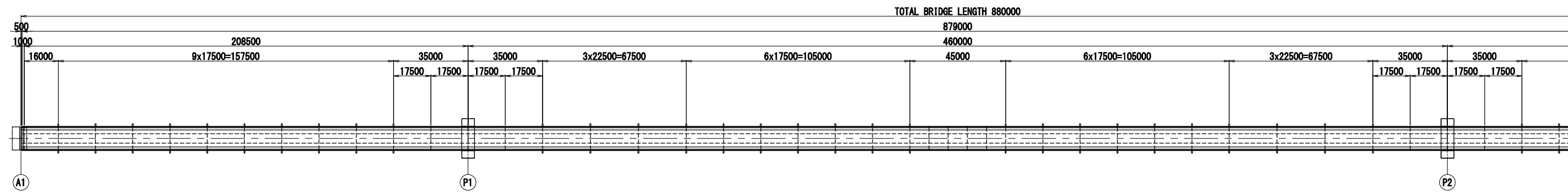
DRAWING TITLE	GENERAL VIEW	
	SCALE	AS SHOWN
	DRAWING NO.	D-2
SHEET NO.		

GENERAL PLAN OF SUPERSTRUCTURE
(GYAING ZATHAPYIN BRIDGE)

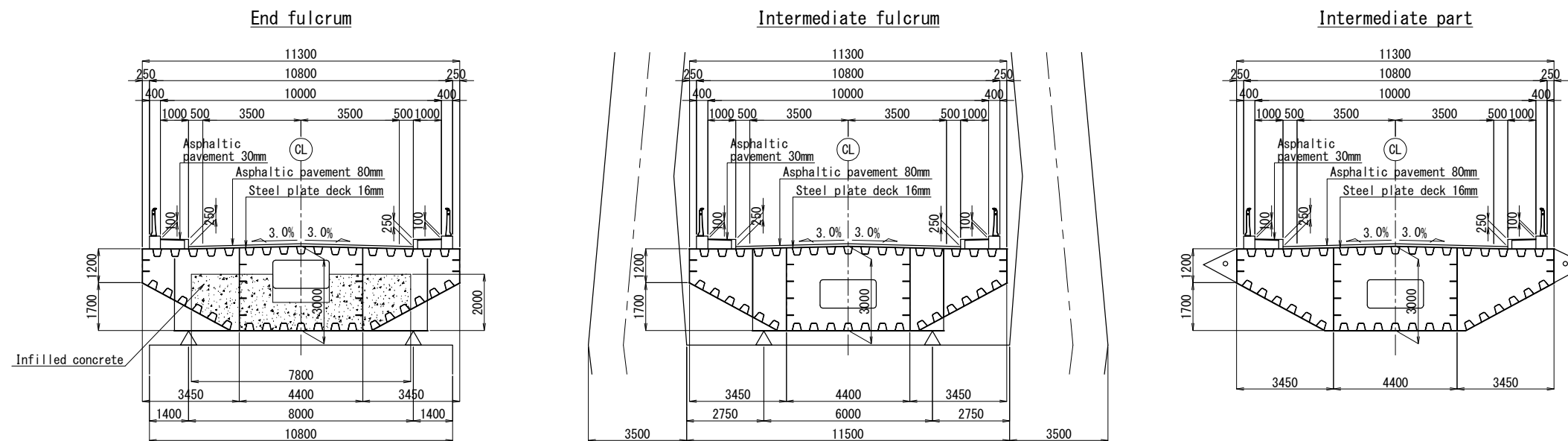
SIDE VIEW S=1/1000



PLAN VIEW S=1/1000



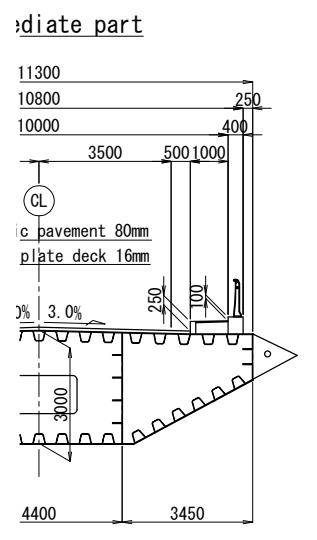
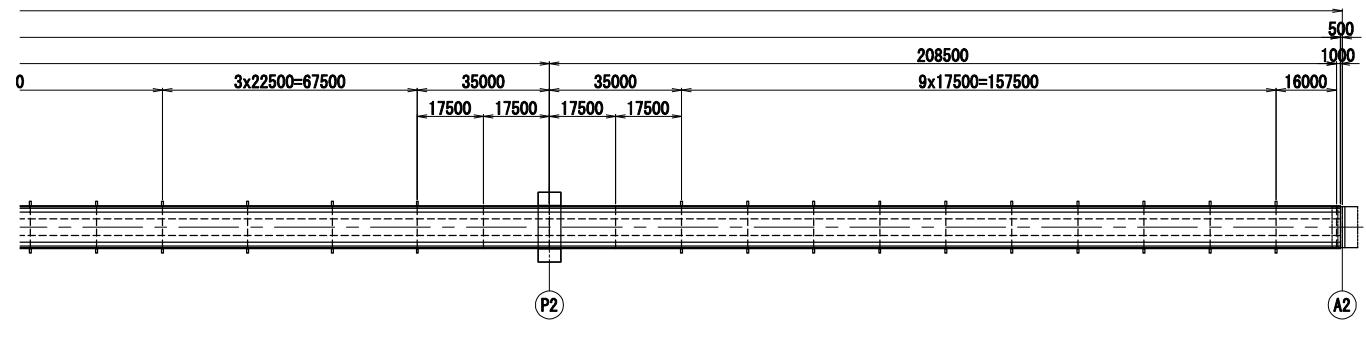
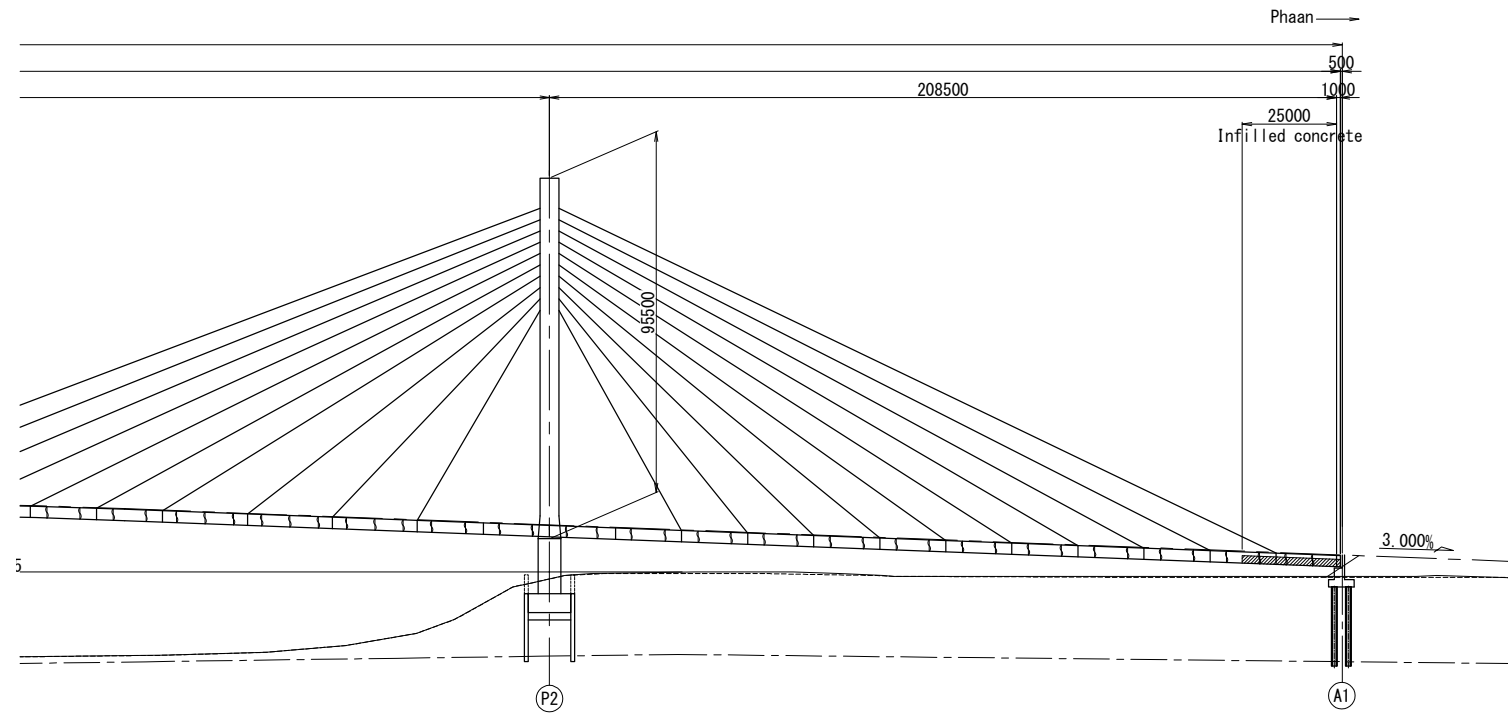
SUPERSTRUCTURE CROSS SECTION S=1/100



DE	
TOTAL BRIDGE LENGTH	
GIRDER LENGTH	
SPAN	
WIDTH	
LIVE LOAD	
IMPACT COEFFICIENT	
SEISMIC INTENSITY	
SPECIAL LOAD SNOW	
ANGEL OF SKEW	
RADIUS OF CURVATURE	
LONGITUDINAL SLOPE	
COMPRESSIVE STRENGTH	

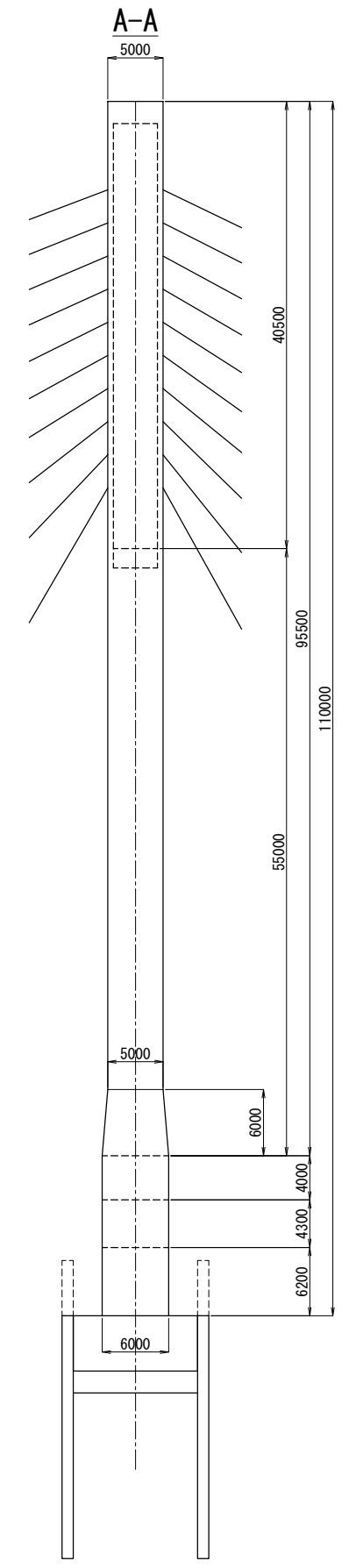
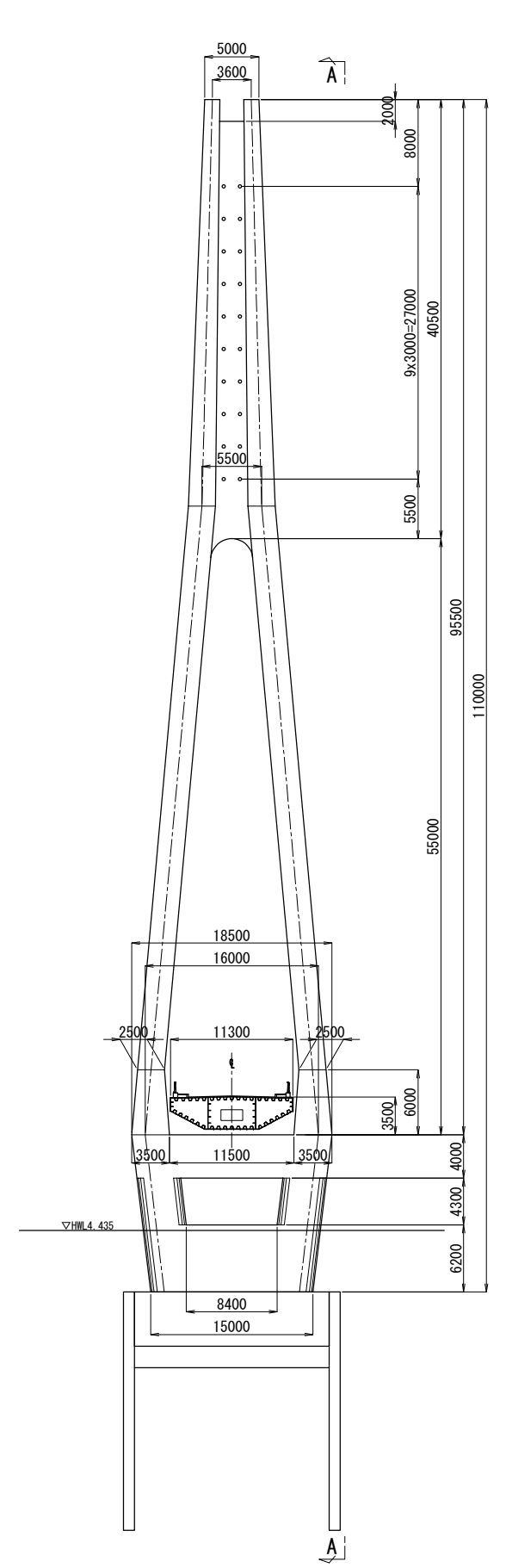
GENERAL PLAN OF SUPERSTRUCTURE (GYAING ZATHAPYIN BRIDGE)

Main column section S=1/300



DESIGN CONDITION

TOTAL BRIDGE LENGTH	880.000m
GIRDER LENGTH	879.000m
SPAN	208.500m + 460.000m + 208.500m
WIDTH	10.000m
LIVE LOAD	HS LOAD
IMPACT COEFFICIENT	$I=20/(50+L)$
SEISMIC INTENSITY	$\pm 15^\circ C$
SPECIAL LOAD SNOW	---
ANGLE OF SKEW	$90^\circ 00' 00''$
RADIUS OF CURVATURE	$R=\infty$
LONGITUDINAL SLOPE	3.000% 3.000%
COMPRESSIVE STRENGTH	$\sigma_{ck}=40N/mm^2, 24N/mm^2$

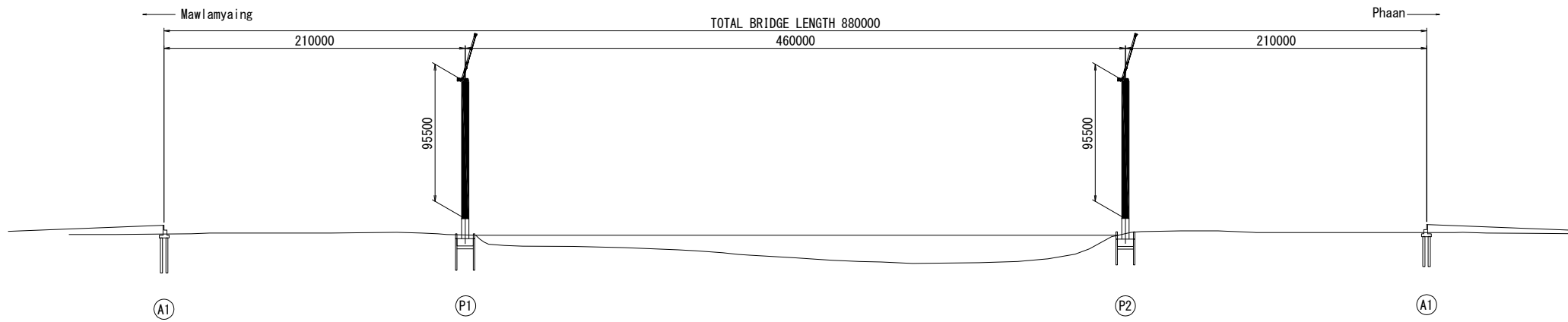


THE PROJECT FOR STRENGTHENING CONNECTIVITY
OF INTERNATIONAL HIGHWAY IN MEKONG REGION

DRAWING TITLE	SCALE	AS SHOWN
GENERAL PLAN OF SUPERSTRUCTURE	DRAWING NO.	D-3
	SHEET NO.	

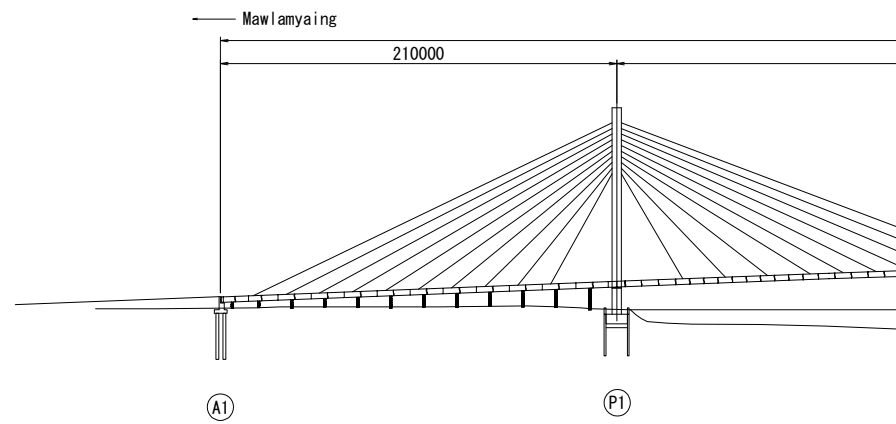
STEP-1

• The tower built by tower crane and sliding form



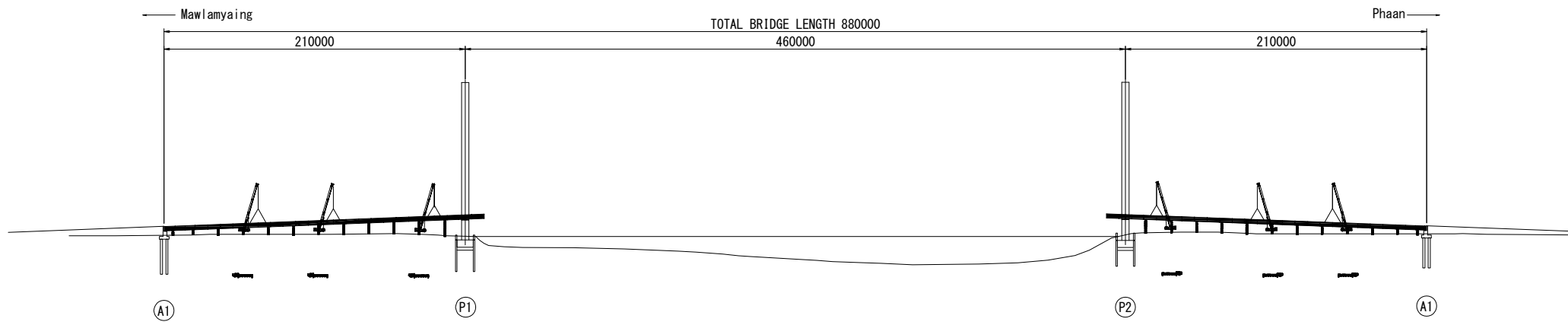
STEP-4

• Center span block closure



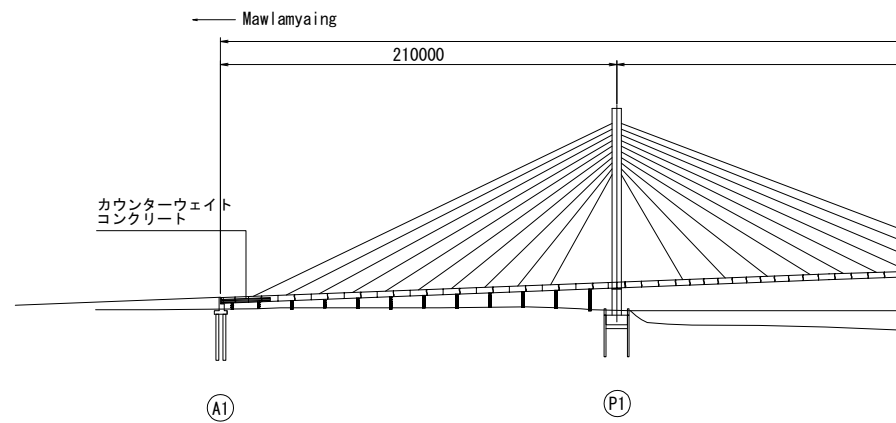
STEP-2

• Side span Truck Crane vent erection



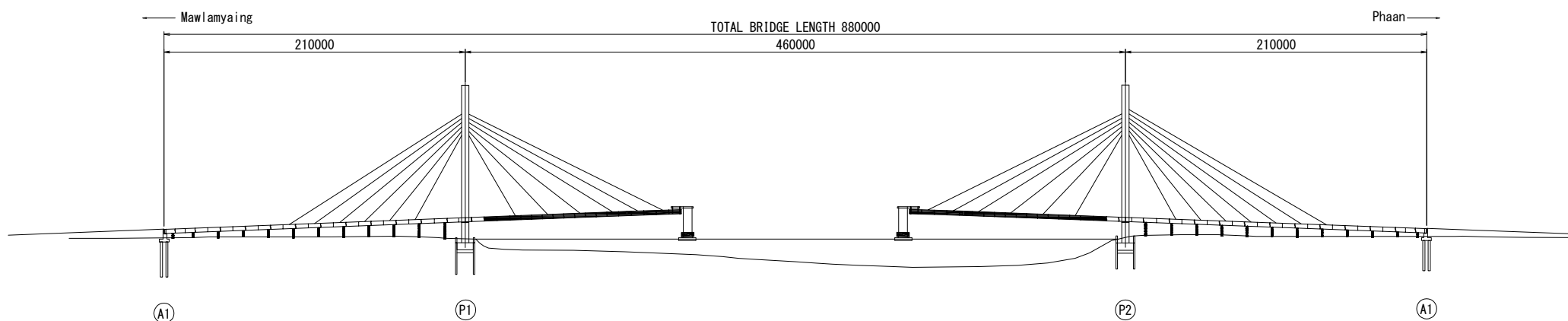
STEP-5

• Side span counterweight concrete placement



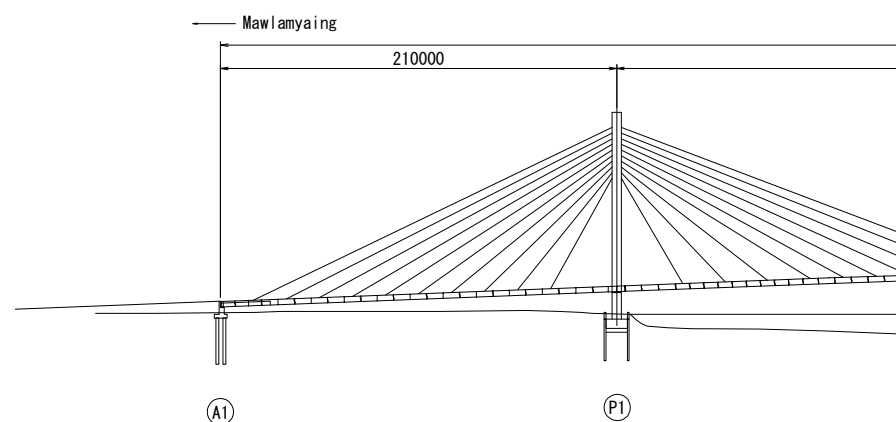
STEP-3

• Center span The bulging erection by barge



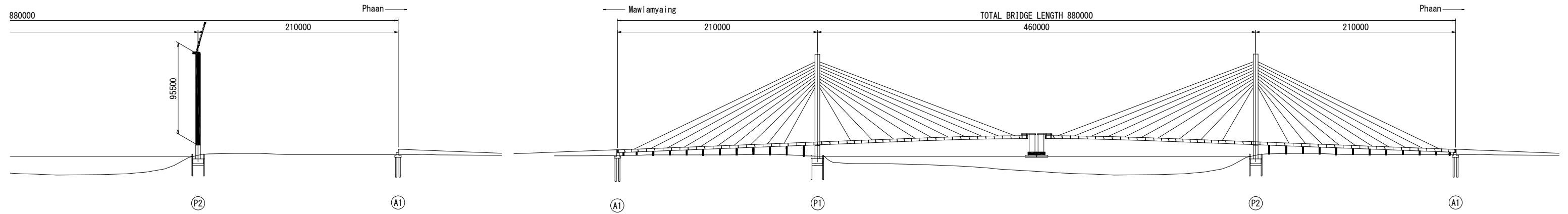
STEP-6

• Oblique rod tension adjustment, side span vent removal

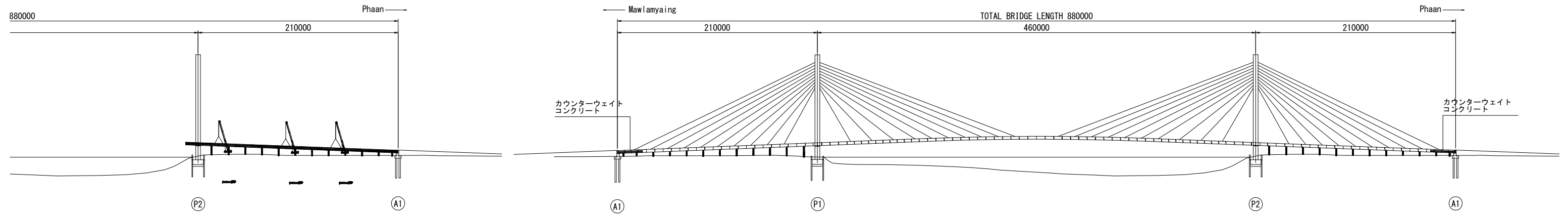


ERECTION PROCEDURE
(GYAING ZATHAPYIN BRIDGE) S=1/2000

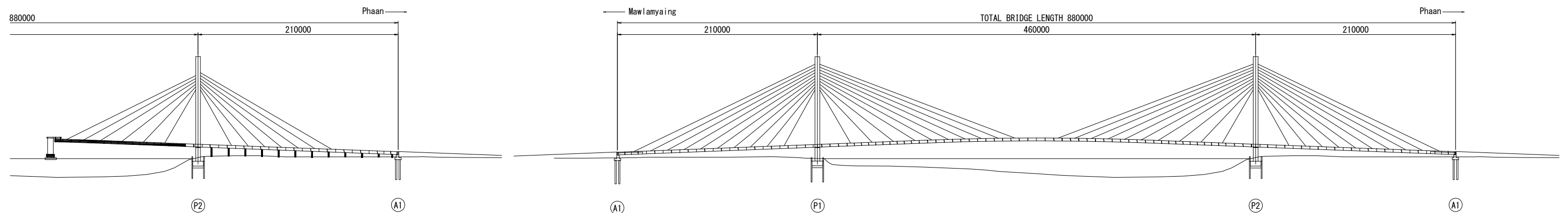
STEP-4
• Center span block closure



STEP-5
• Side span counterweight concrete placement



STEP-6
• Oblique rod tension adjustment, side span vent removal

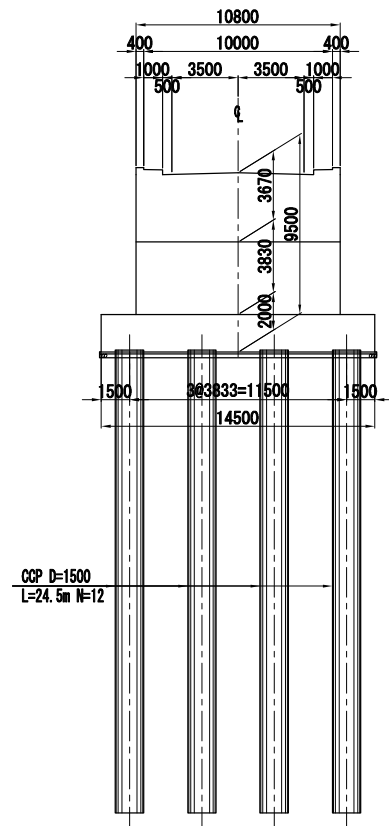


JAPAN INCORPORATED	REMARKS	THE PROJECT FOR STRENGTHENING CONNECTIVITY OF INTERNATIONAL HIGHWAY IN MEKONG REGION		
		DRAWING TITLE	SCALE	1/2000
		ERECTION PROCEDURE	DRAWING NO.	D-4
		SHEET NO.		

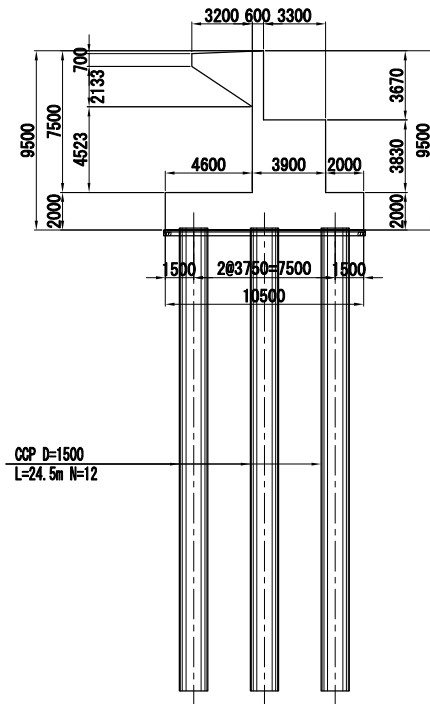
SUBSTRUCTURE AND FOUNDATION (1)
(GYAING ZATHAPYIN BRIDGE)

A1
Scale 1:400

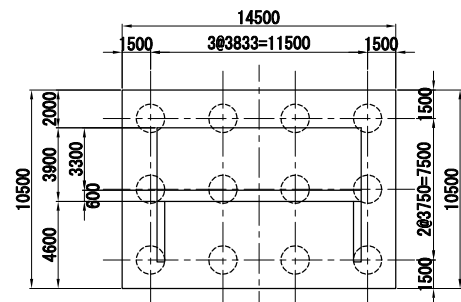
FRONT VIEW



SIDE VIEW

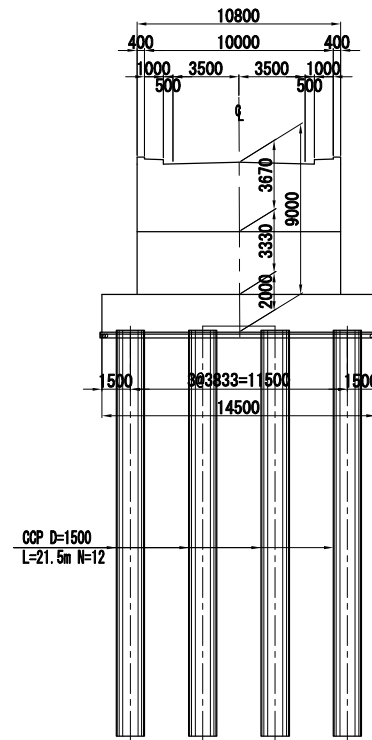


PLAN VIEW

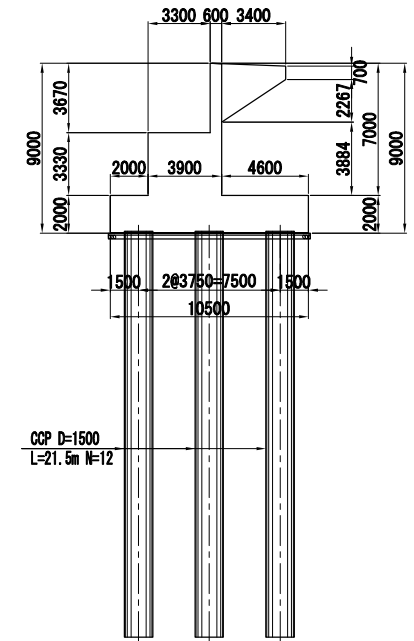


A2
Scale 1:400

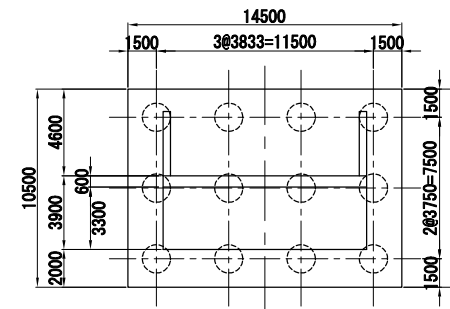
FRONT VIEW



SIDE VIEW



PLAN VIEW



REMARKS

THE PROJECT FOR STRENGTHENING CONNECTIVITY
OF INTERNATIONAL HIGHWAY IN MEKONG REGION

DRAWING TITLE SUBSTRUCTURE AND FOUNDATION (1)	SCALE	1/400
	DRAWING NO.	D-5-1
	SHEET NO.	

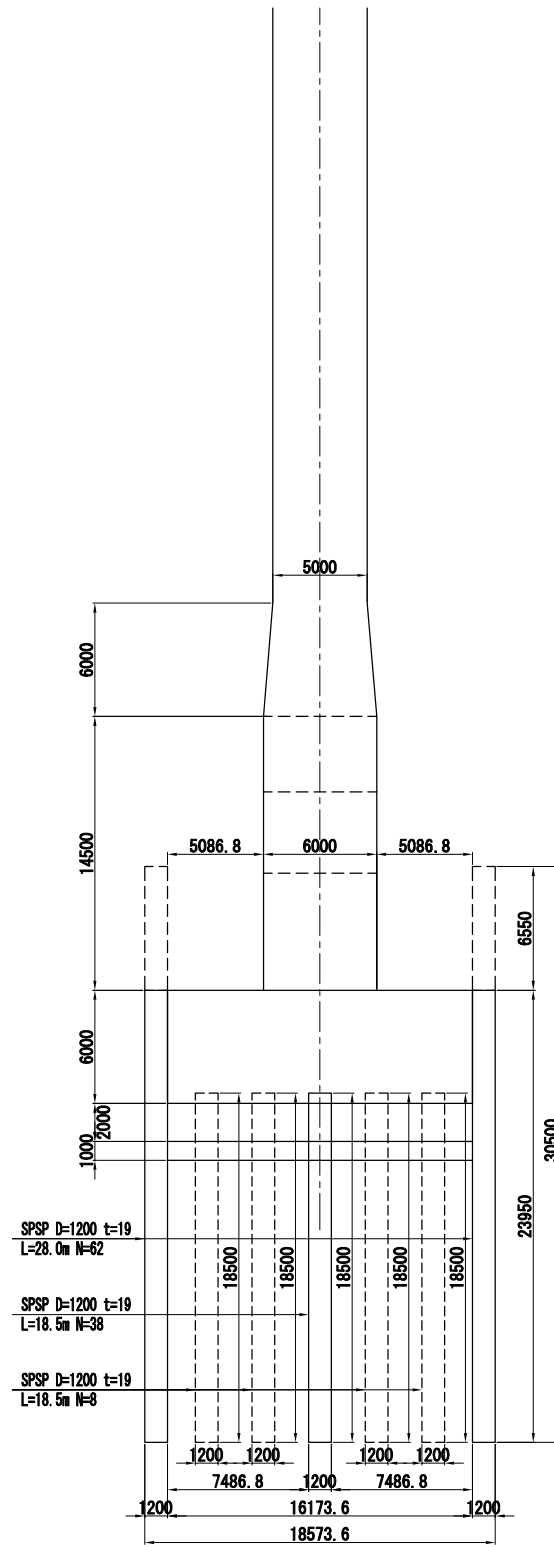
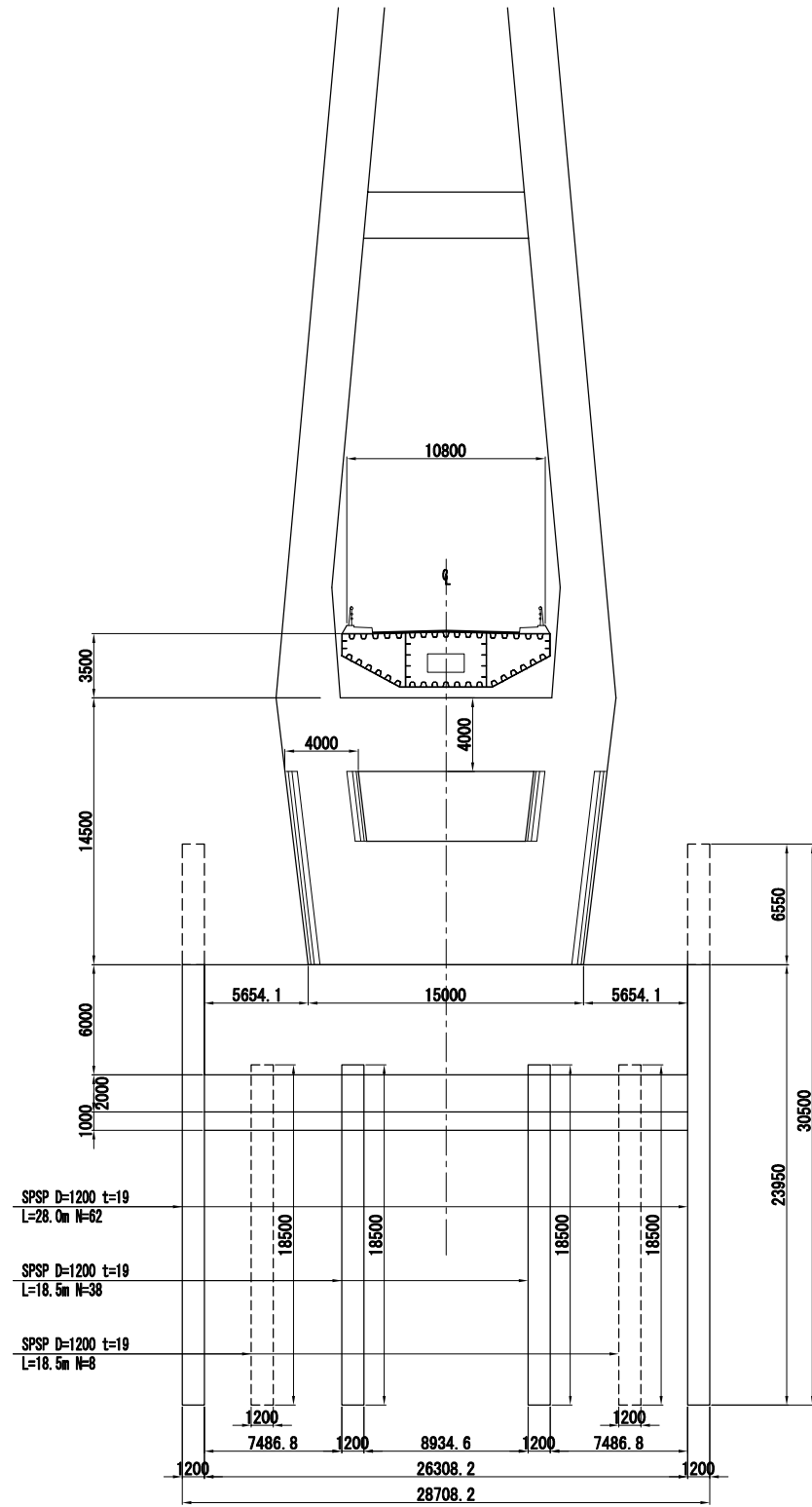
SUBSTRUCTURE AND FOUNDATION (2)
(GYAING ZATHAPYIN BRIDGE)

P1

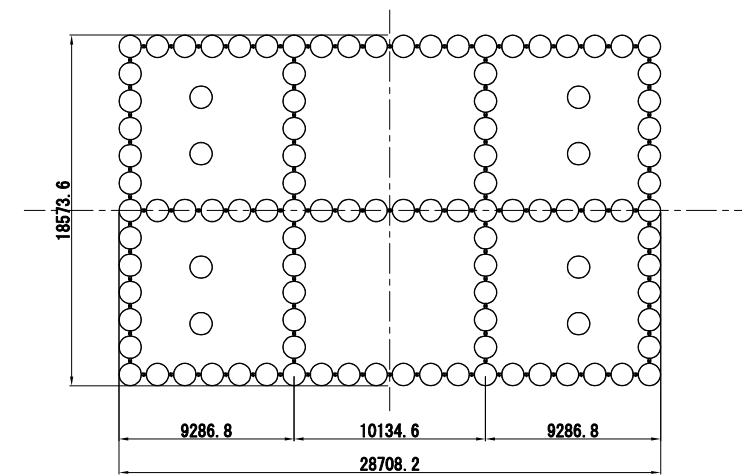
Scale 1:400

FRONT VIEW

SIDE VIEW



PLAN VIEW



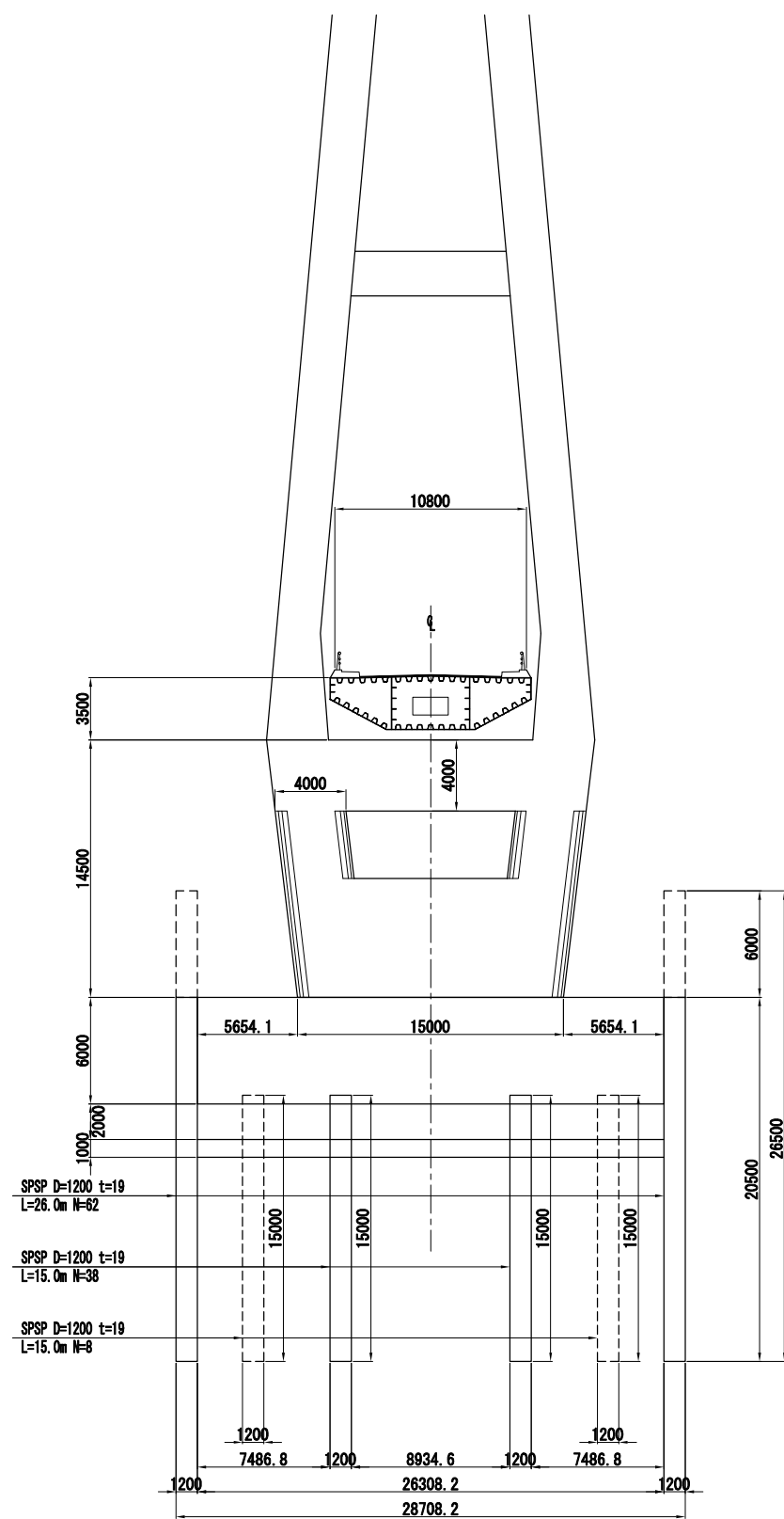
SUBSTRUCTURE AND FOUNDATION (3)

(GYAING ZATHAPYIN BRIDGE)

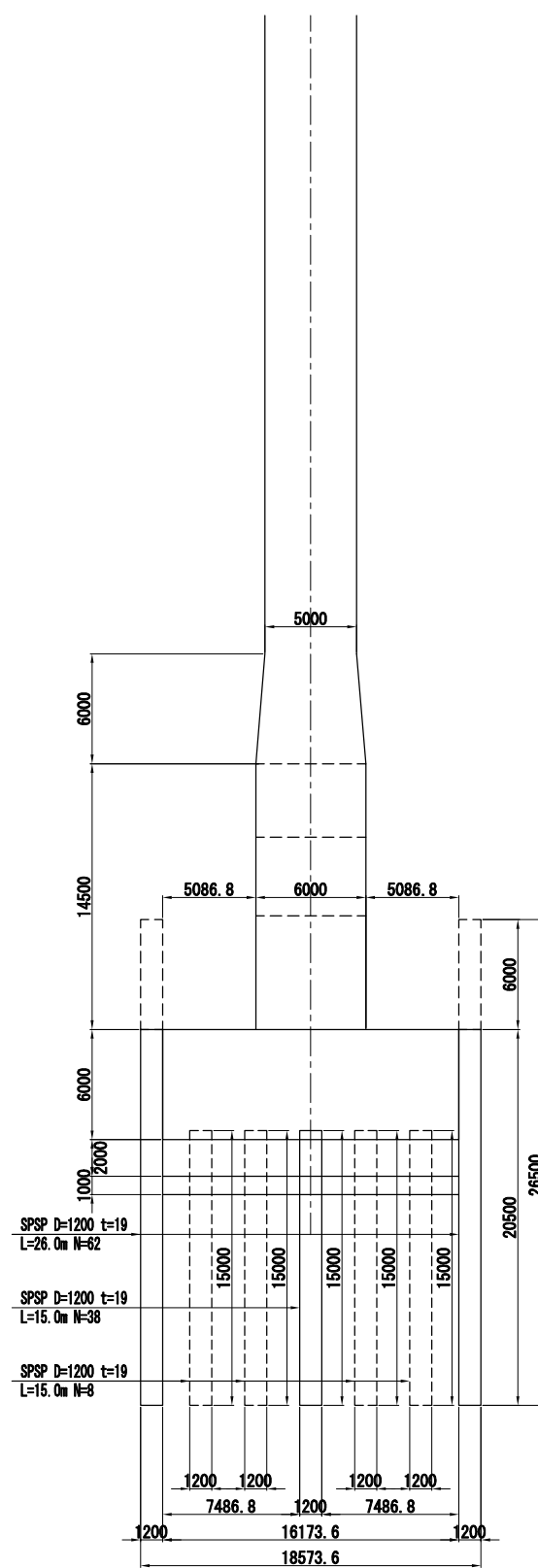
P2

Scale 1:400

FRONT VIEW



SIDE VIEW



PLAN VIEW

