

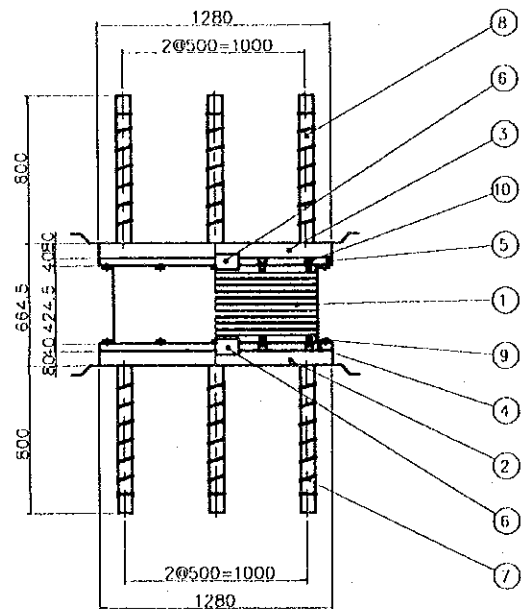
## **VI. MISCELLANEOUS**

# DETAIL OF BEARING (1)

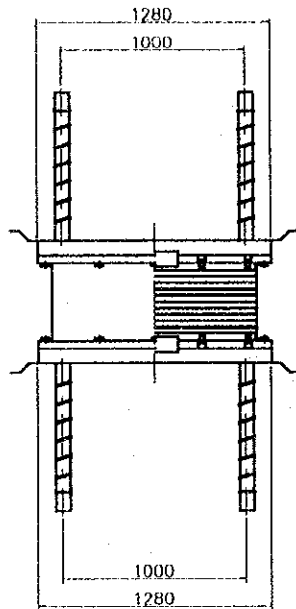
SCALE 1:40

## ELEVATION

### TRANSVERSE

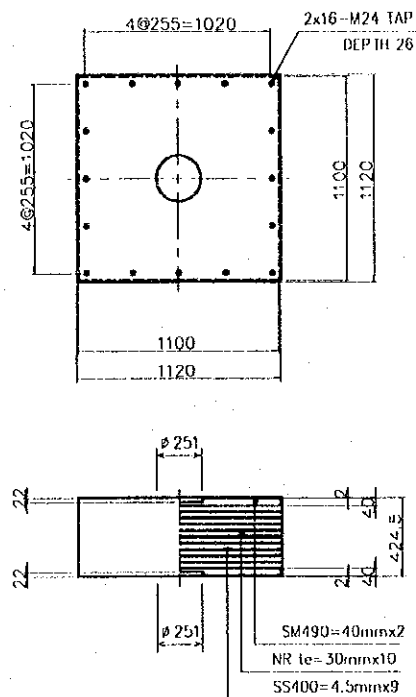


### LONGITUDINAL



## ① ERASTOMER BEARING

(NR + SS400 + SM490)



## DESIGN CONDITION

		REACTION	
TOTAL REACTION	(MAX)	R	5612 kN
DEAD REACTION	(MAX)	R <sub>d</sub>	2180 kN
LONGITUDINAL REACTION	(SEISMIC)	R <sub>1Hx</sub>	1250 kN
TRANSVERSE REACTION	(SEISMIC)	R <sub>1Hz</sub>	
LATERAL SEISMIC RESPONSE COEFFICIENT		K <sub>h</sub>	0.12

## MATERIAL LIST

No	DESCRIPTION	MATERIAL	UNIT	WEIGHT (kg)	REMARKS
1	ELASTOMER BEARING	NR + SS400 + SM490	1	1648.0	C=0.7N/mm <sup>2</sup>
2	LOWER PLATE	SM490	1	999.7	
3	UPPER PLATE	SM490	1	999.7	
4	LOWER MIDDLE PLATE	SM490	1	491.4	
5	UPPER MIDDLE PLATE	SM490	1	491.4	
6	BOSS PLATE	SM490	2	63.2	
7	ANCHOR BOLT	SS400 + SR235	6	208.3	
8	ANCHOR BAR	SS400 + SR235	6	208.3	
9	HEXAGON HEAD BOLTS		32	12.2	φS B 1180 Plain Washers
10	HEXAGON SOCKET HEAD CAP SCREWS		32	10.0	φS B 1176
TOTAL WEIGHT (kg)				5132.2	

### Note :

The materials, which marked with circle, shall be galvanized with an extra heavy of zinc by an electrolytic galvanizing process.

The weight of deposition of zinc shall be conforming to the prescription of grade HDZ55 of "JIS H 8641" or equivalent. (JIS: Japanese Industrial Standard)

Shear key shall perform Royal coating or equivalent.

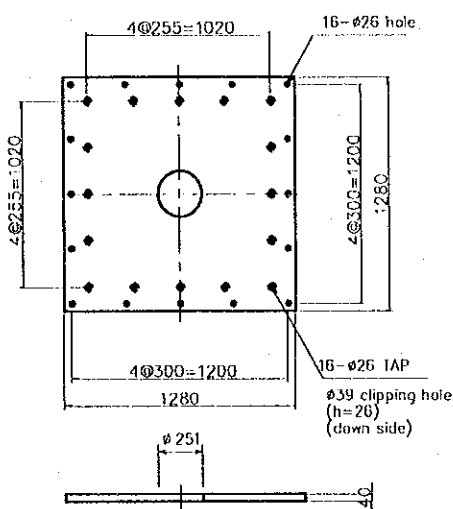
Material number 9 and 10, shall perform dacroized processing or equivalent.

The weight of rubber bearing is the reference value.

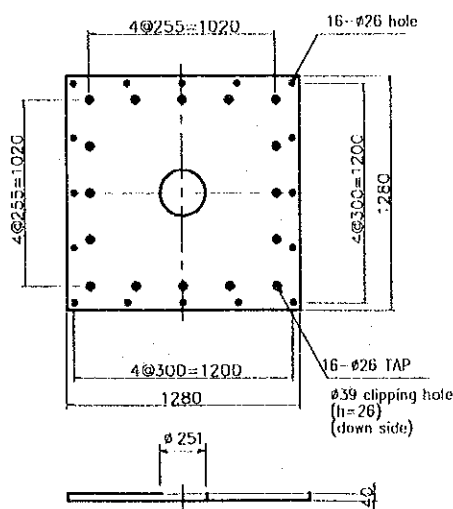
- ⑨ HEXAGON HEAD BOLTS M24x70 10.9
- ⑩ HEXAGON SOCKET M24x40 10.9

### HEADCAP SCREWS

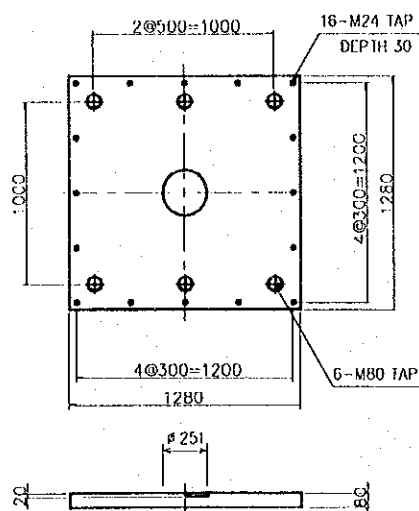
## ④ LOWER MIDDLE PLATE (SM490)



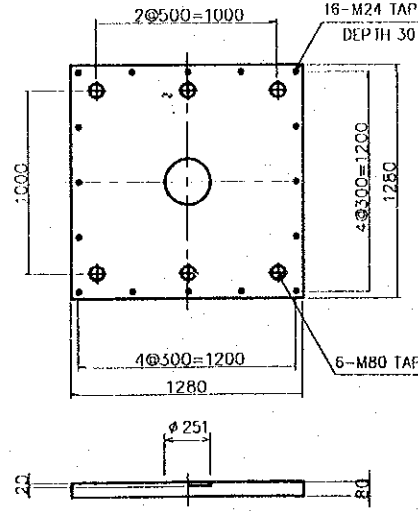
## ⑤ UPPER MIDDLE PLATE (SM490)



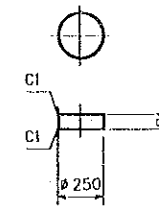
## ② LOWER PLATE (SM490)



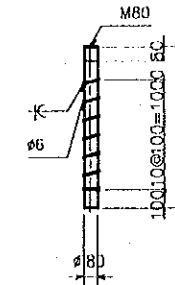
## ③ UPPER PLATE (SM490)



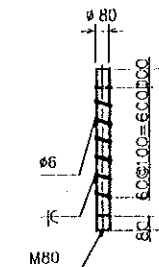
## ⑥ BOSS PLATE (SM490)



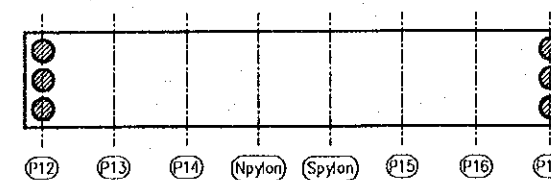
## ⑦ ANCHOR BOLT (SS400+SR235)



## ⑧ ANCHOR BAR (SS400+SR235)



## LOCATION



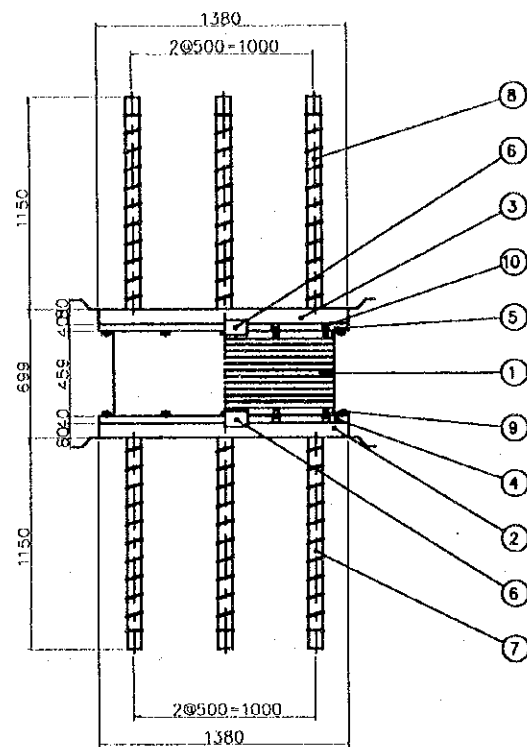
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOBI CO.,LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS DETAIL OF BEARING (1)	P2/CS/5010
				DATE: 20/9/2000	DATE: 29/9/2000	DATE: 5/10/2000		

# DETAIL OF BEARING (2)

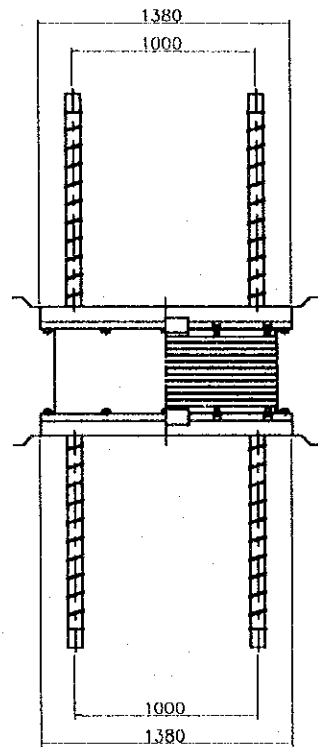
SCALE 1:40

## ELEVATION

### TRANSVERSE

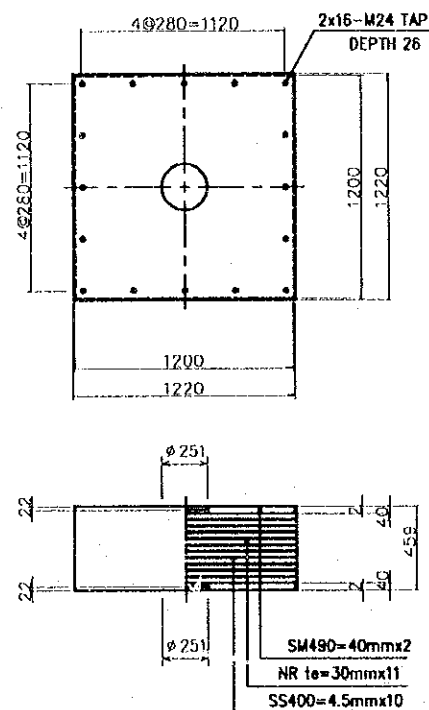


### LONGITUDINAL



## ① ELASTOMER BEARING

(NR+SS400+SM490)



## DESIGN CONDITION

		REACTION	
TOTAL REACTION	(MAX)	R	11624 kN
DEAD REACTION	( )	Rd	7630 kN
LONGITUDINAL REACTION	(SEISMIC)	R <sub>12</sub>	1361 kN
TRANSVERSE REACTION	(SEISMIC)	R <sub>12z</sub>	
LATERAL SEISMIC RESPONSE COEFFICIENT		K <sub>h</sub>	0.12

## MATERIAL LIST

No	DESCRIPTION	MATERIAL	UNIT	WEIGHT(kg)	RE MARKS
1	ELASTOMER BEARING	NR+SS400+SM490	1	2073.7	G=0.78N/mm <sup>2</sup>
2	LOWER PLATE	SM490	1	1166.8	
3	UPPER PLATE	SM490	1	1166.8	
4	LOWER MIDDLE PLATE	SM490	1	574.9	
5	UPPER MIDDLE PLATE	SM490	1	574.9	
6	BOSS PLATE	SM490	1	63.2	
7	ANCHOR BOLT	SS400+SR235	6	291.2	
8	ANCHOR BAR	SS400+SR235	6	291.2	
9	HEXAGON HEAD BOLTS		32	12.2	JIS H 1180 Plain Washers
10	HEXAGON SOCKET HEAD CAP SCREWS		32	10.0	JIS H 1176
TOTAL WEIGHT (kg)				1779.7	

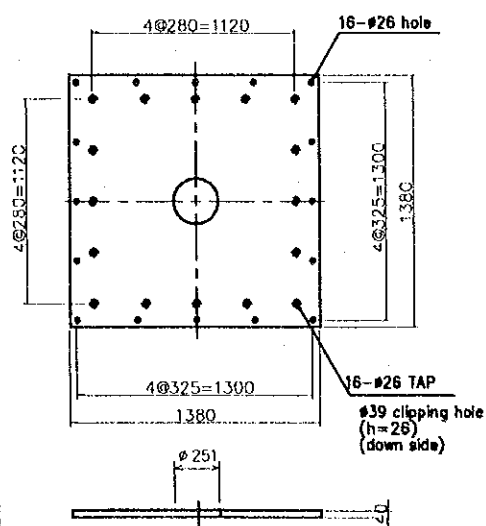
Note :

The materials, which marked with circle, shall be galvanized with an extra heavy of zinc by an electrolytic galvanizing process. The weight of deposition of zinc shall be conforming to the prescription of grade HDZ55 of JIS H 8641 or equivalent. (JIS: Japanese Industrial Standard) Shear key shall perform Royal coating or equivalent. Material number 9 and 10, shall perform dacrloized processing or equivalent.

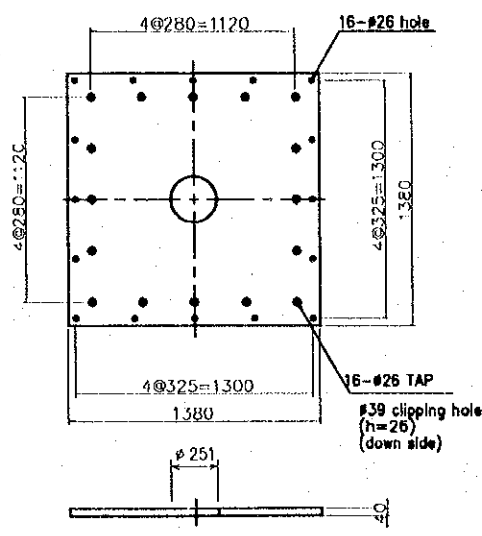
The weight of rubber bearing is the reference value.

- ⑨ HEXAGON HEAD BOLTS M24x70 10.9
- ⑩ HEXAGON SOCKET M24x40 10.9 HEADCAP SCREWS

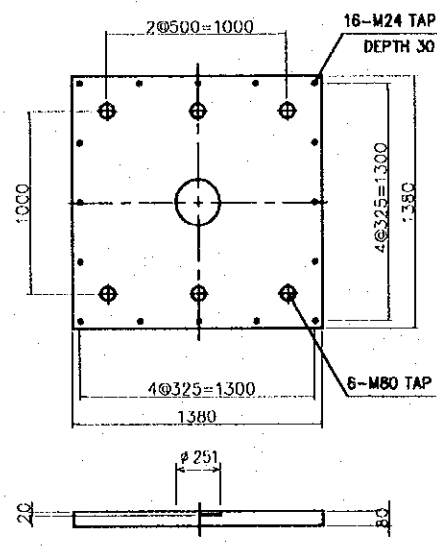
## ④ LOWER MIDDLE PLATE (SM490)



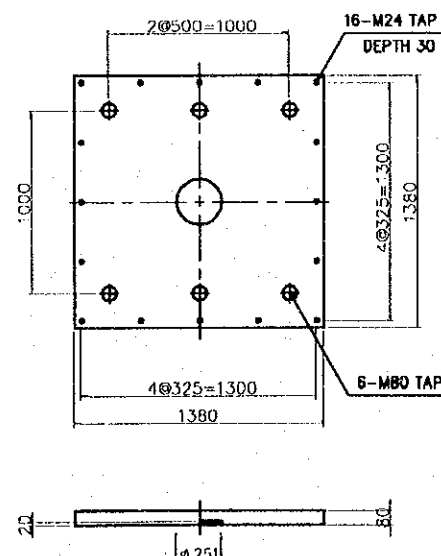
## ⑤ UPPER MIDDLE PLATE (SM490)



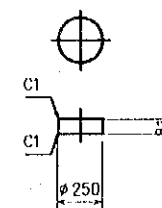
## ② LOWER PLATE (SM490)



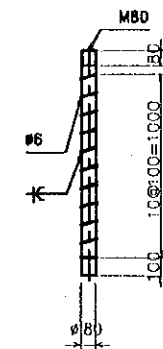
## ③ UPPER PLATE (SM490)



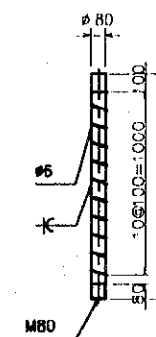
## ⑥ BOSS PLATE (SM490)



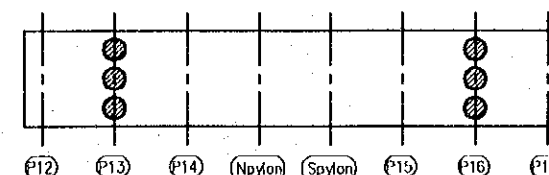
## ⑦ ANCHOR BOLT (SS400+SR235)



## ⑧ ANCHOR BAR (SS400+SR235)



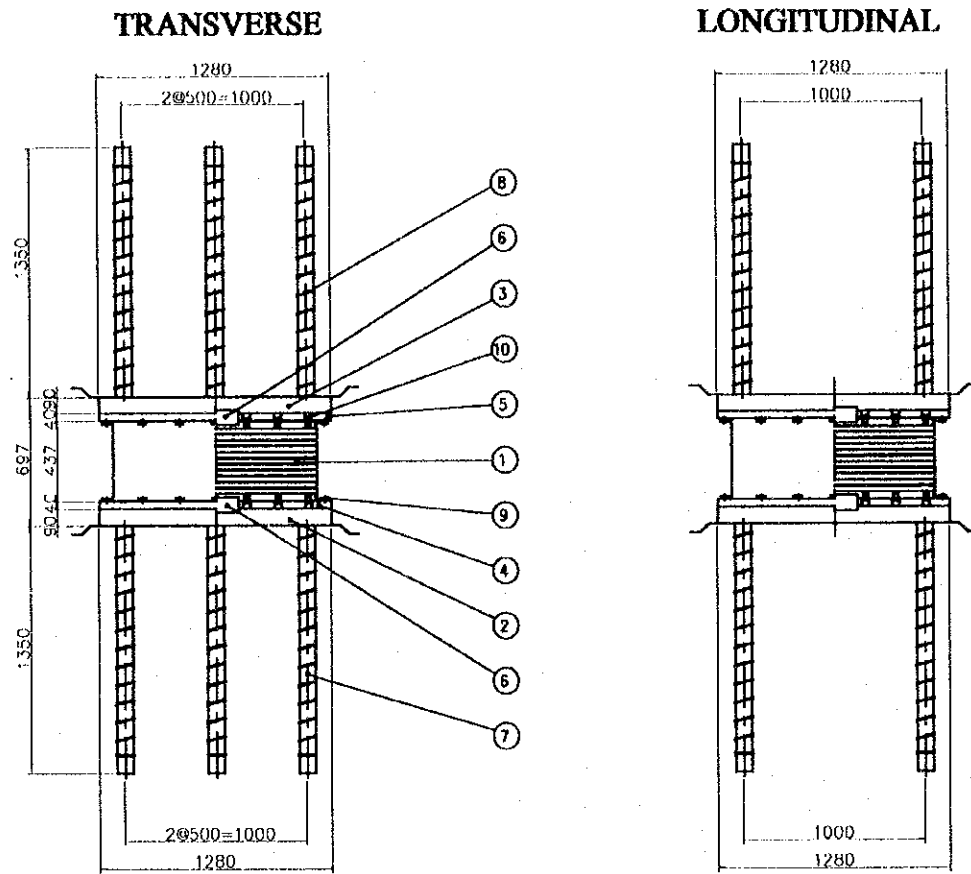
## LOCATION



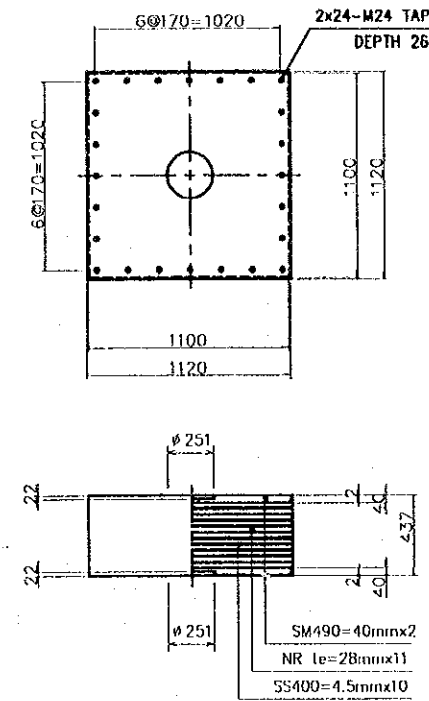
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOKI CO.,LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS DETAIL OF BEARING (2)	P2/CS/5020
				DATE: 20/9/2000	DATE: 29/9/2000	DATE: 5/10/2000		

# DETAIL OF BEARING (3) SCALE 1:40

## ELEVATION



## ① ERASTOMER BEARING (NR+SS400+SM490)



## DESIGN CONDITION

		REACTION	
TOTAL REACTION	(MAX)	R	9551 kN
DEAD REACTION	(MAX)	Rd	5441 kN
LONGITUDINAL REACTION	(SEISMIC)	R <sub>l1</sub>	1226 kN
TRANSVERSE REACTION	(SEISMIC)	R <sub>l2</sub>	
LATERAL SEISMIC RESPONSE COEFFICIENT		Kh	0.12

## MATERIAL LIST

No	DESCRIPTION	MATERIAL	UNIT	WEIGHT (kg)	REMARKS
1	ELASTOMER BEARING	NR+SS400+SM490	1	1648.0	G=0.78N/mm <sup>2</sup>
2	LOWER PLATE	SM490	1	1122.4	
3	UPPER PLATE	SM490	1	1122.4	
4	LOWER MIDDLE PLATE	SM490	1	488.3	
5	UPPER MIDDLE PLATE	SM490	1	488.3	
6	BOSS PLATE	SM490	2	63.2	
7	ANCHOR BOLT	SS400+SR235	6	431.5	
8	ANCHOR BAR	SS400+SR235	6	431.5	
9	HEXAGON HEAD BOLTS		48	18.3	JIS B 1180 Plain Washer
10	HEXAGON SOCKET HEAD CAP SCREWS		48	15.0	JIS B 1176
TOTAL WEIGHT (kg)				5119	

### Note :

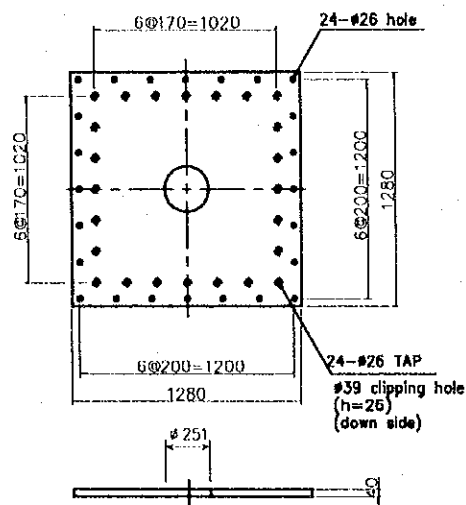
The materials, which marked with circle, shall be galvanized with an extra heavy of zinc by an electrolytic galvanizing process. The weight of deposition of zinc shall be conforming to the prescription of grade HDZ55 of "JIS H 8641" or equivalent. (JIS: Japanese Industrial Standard)

Shear key shall perform Royal coating or equivalent. Material number 9 and 10, shall perform docrolized processing, or equivalent.

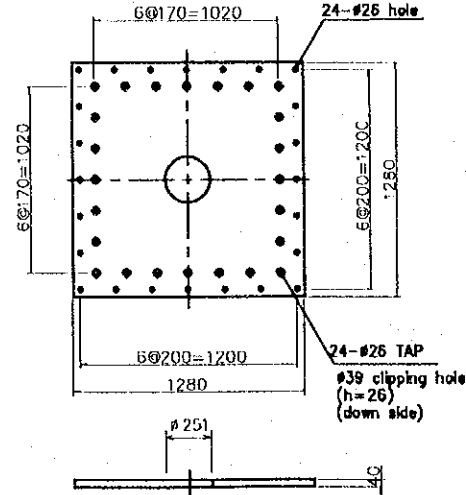
The weight of rubber bearing is the reference value.

- ⑨ HEXAGON HEAD BOLTS M24x70 10.9
- ⑩ HEXAGON SOCKET HEAD CAP SCREWS M24x40 10.9

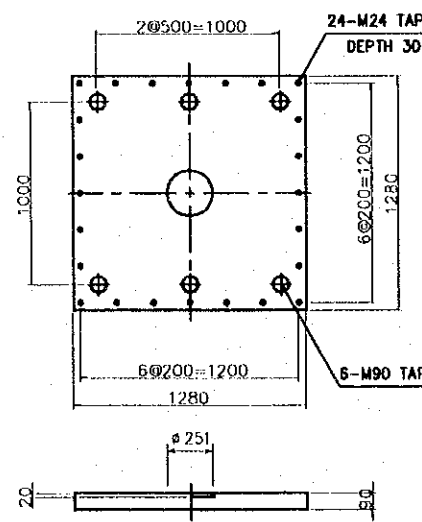
## ④ LOWER MIDDLE PLATE (SM490)



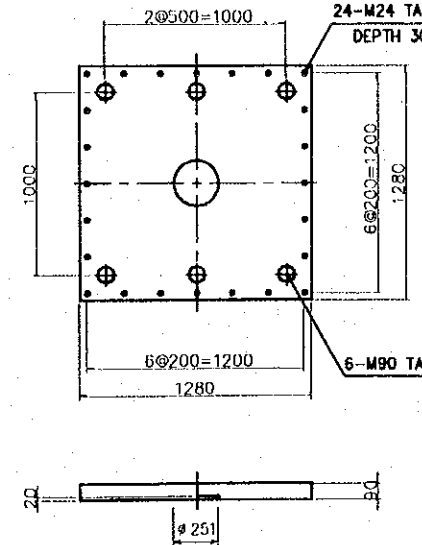
## ⑤ UPPER MIDDLE PLATE (SM490)



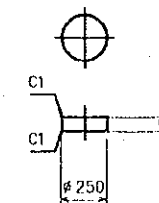
## ② LOWER PLATE (SM490)



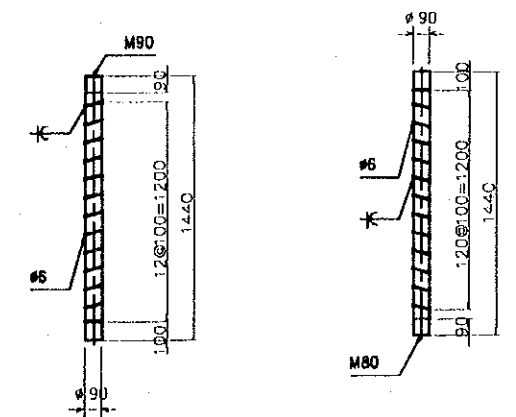
## ③ UPPER PLATE (SM490)



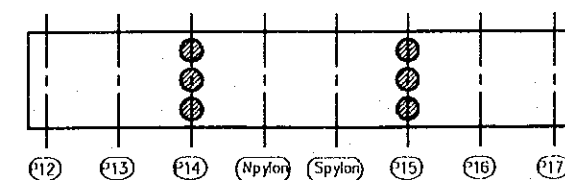
## ⑥ BOSS PLATE (SM490)



## ⑦ ANCHOR BOLT (SS400+SR235) ⑧ ANCHOR BAR (SS400+SR235)



## LOCATION



PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO., LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS DETAIL OF BEARING (3)	P2/CS/5030
				DATE: 20/9/2000	DATE: 29/9/2000	DATE: 5/10/2000		

# DETAIL OF BEARING (4)

SCALE 1:40

## DESIGN CONDITION

		REACTION	
TOTAL REACTION	(MAX)	R	13348 kN
DEAD REACTION	( " )	Rd	10144 kN
LONGITUDINAL REACTION	(SEISMIC)	R <sub>112e</sub>	3508 kN
TRANSVERSE REACTION	(SEISMIC)	R <sub>112z</sub>	---
LATERAL SEISMIC RESPONSE COEFFICIENT		K <sub>h</sub>	0.12

## MATERIAL LIST

No	DESCRIPTION	MATERIAL	UNIT	WLGHT(kg)	REMARKS
1	ELASTOMER BEARING	NR + SS400 + SM490	1	2029.4	0-1.18N/mm <sup>2</sup>
2	LOWER PLATE	SM490	1	2328.8	
3	UPPER PLATE	SM490	1	2328.8	
4	LOWER MIDDLE PLATE	SM490	1	845.2	
5	UPPER MIDDLE PLATE	SM490	1	845.2	
6	BOSS PLATE	SM490	2	189.4	
7	ANCHOR BOLT	SS400 + SR235	6	675.9	
8	ANCHOR BAR	SS400 + SR235	6	675.9	
9	HEXAGON HEAD BOLTS	---	64	24.4	JIS B 1180 Plain Washers
10	HEXAGON SOCKET HEADCAP SCREWS	---	64	20.0	JIS B 1176
TOTAL WEIGHT (kg)				10759	

Note :

The materials, which marked with circle, shall be galvanized with an extra heavy of zinc by an electrolytic galvanizing process.

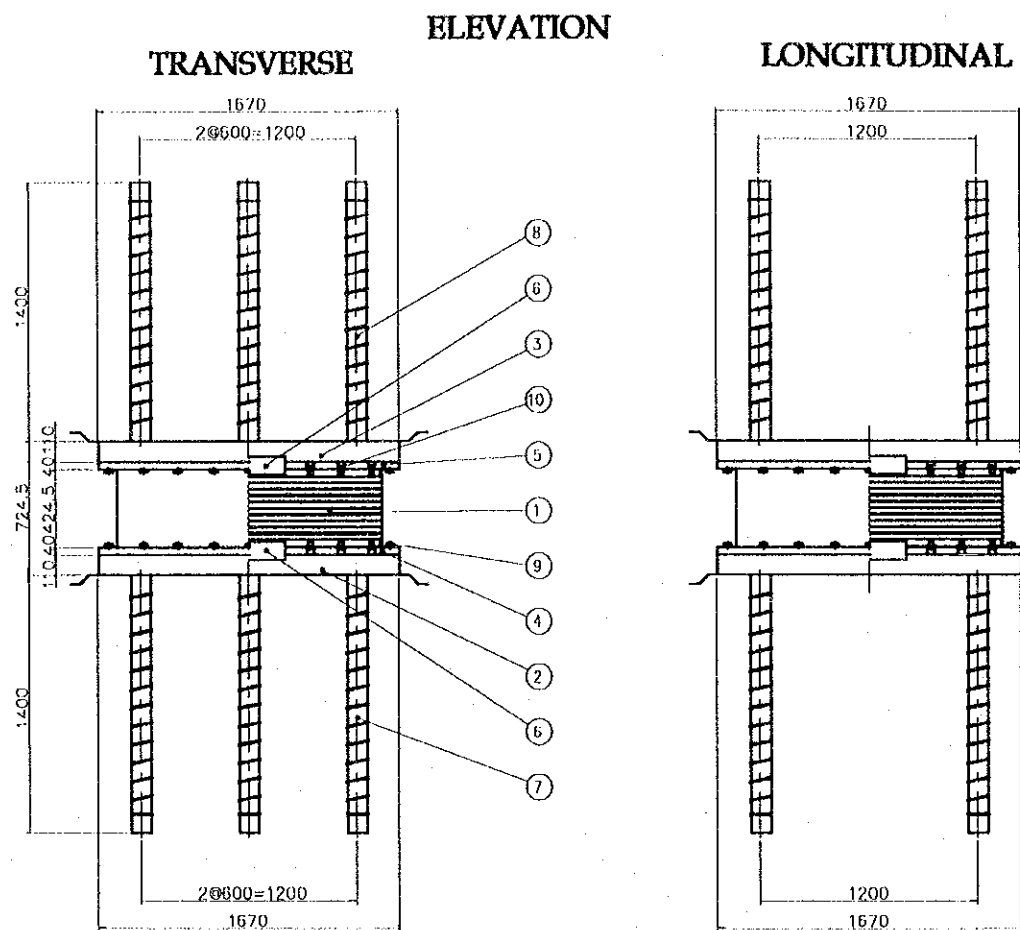
The weight of deposition of zinc shall be conforming to the prescription of grade HDZ55 of "JIS H 8641" or equivalent. (JIS: Japanese Industrial Standard)

Shear key shall perform Royal coating or equivalent.

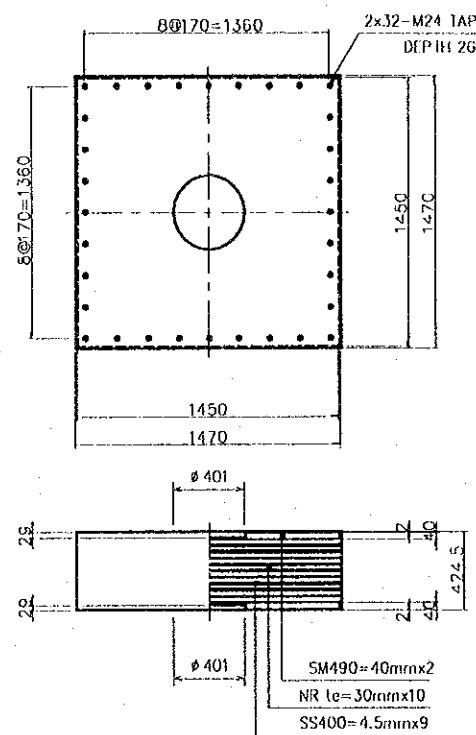
Material number 9 and 10, shall perform dactrolized processing or equivalent.

The weight of rubber bearing is the reference value.

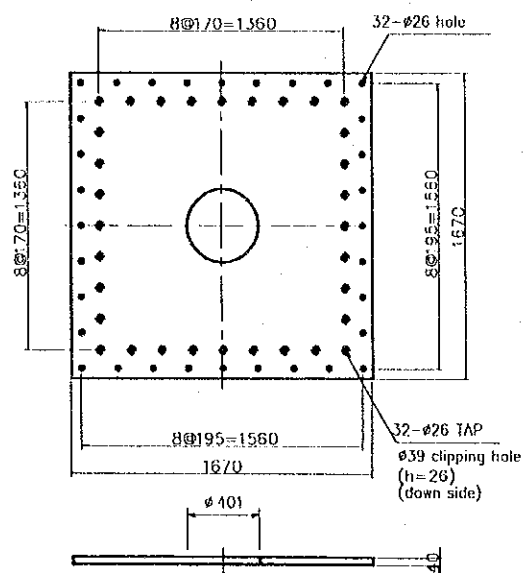
- ⑨ HEXAGON HEAD BOLTS M24x70 10.9
- ⑩ HEXAGON SOCKET HEADCAP SCREWS M24x40 10.9



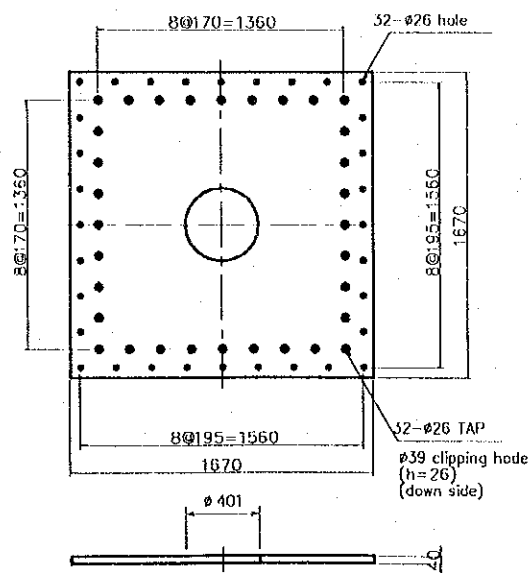
## ① ELASTOMER BEARING (NR + SS400 + SM490)



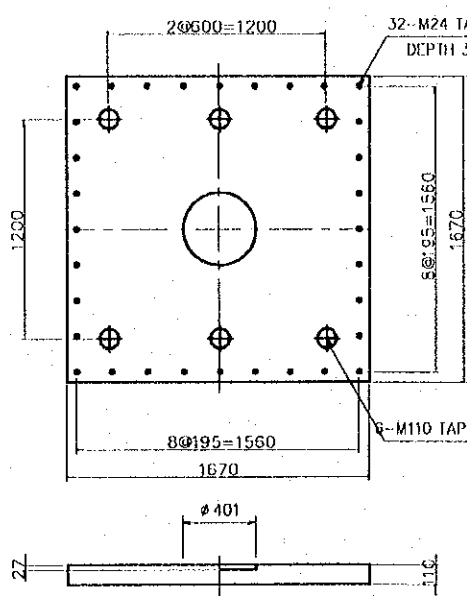
## ④ LOWER MIDDLE PLATE (SM490)



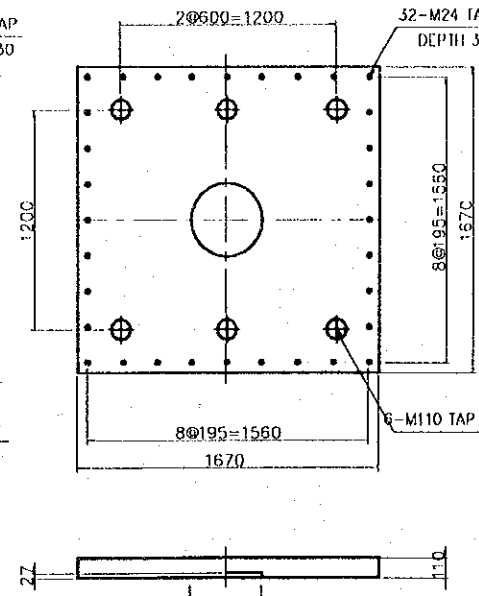
## ⑤ UPPER MIDDLE PLATE (SM490)



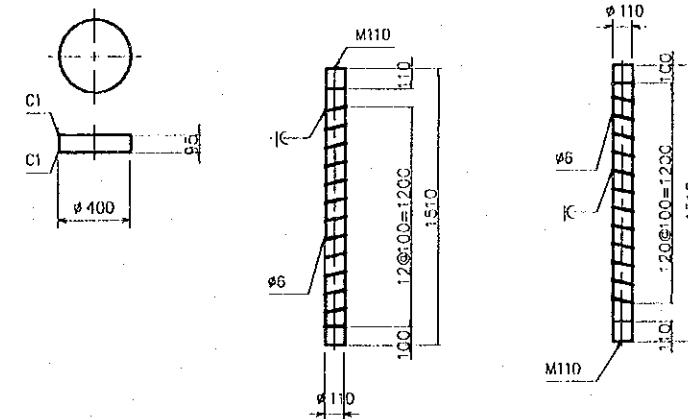
## ② LOWER PLATE (SM490)



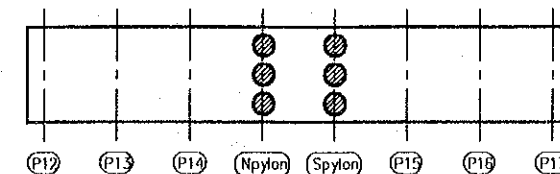
## ③ UPPER PLATE (SM490)



## ⑥ BOSS PLATE (SM490) ⑦ ANCHOR BOLT (SS400 + SR235) ⑧ ANCHOR BAR (SS400 + SR235)



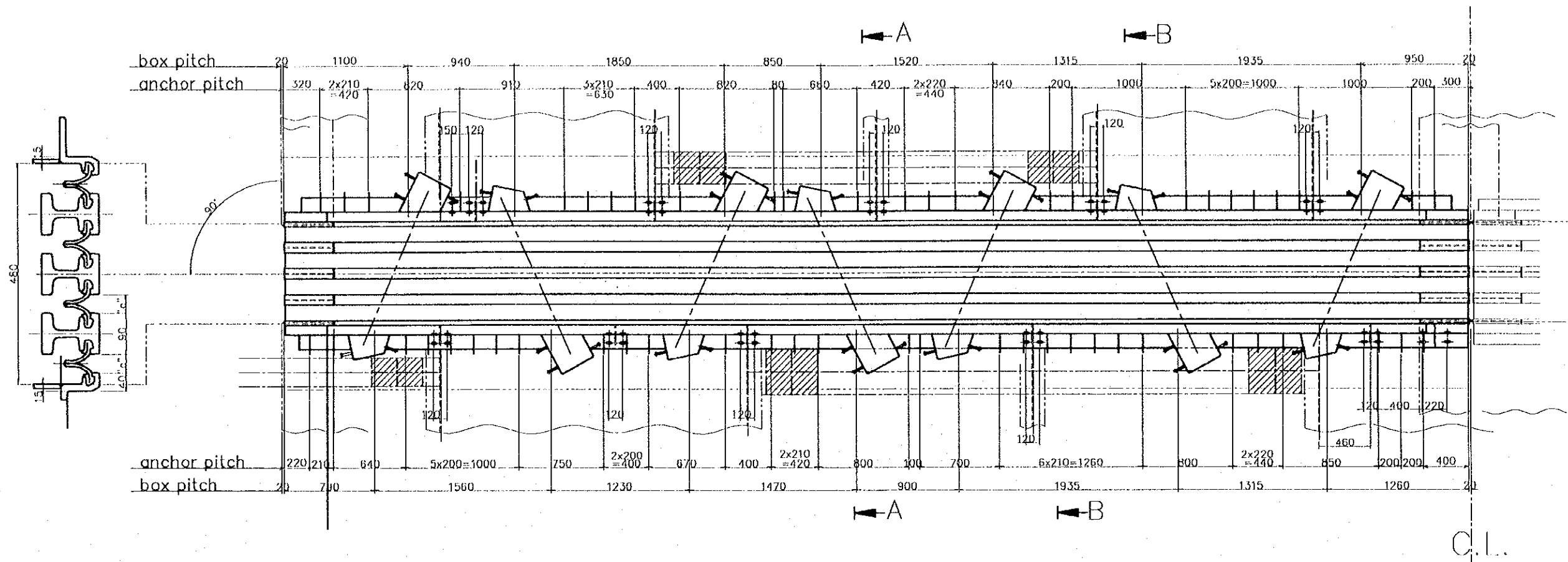
## LOCATION



PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS DETAIL OF BEARING (4)	P2/CS/5040
				DATE: 20/9/2000	DATE: 29/9/2000	DATE: 5/10/2000		

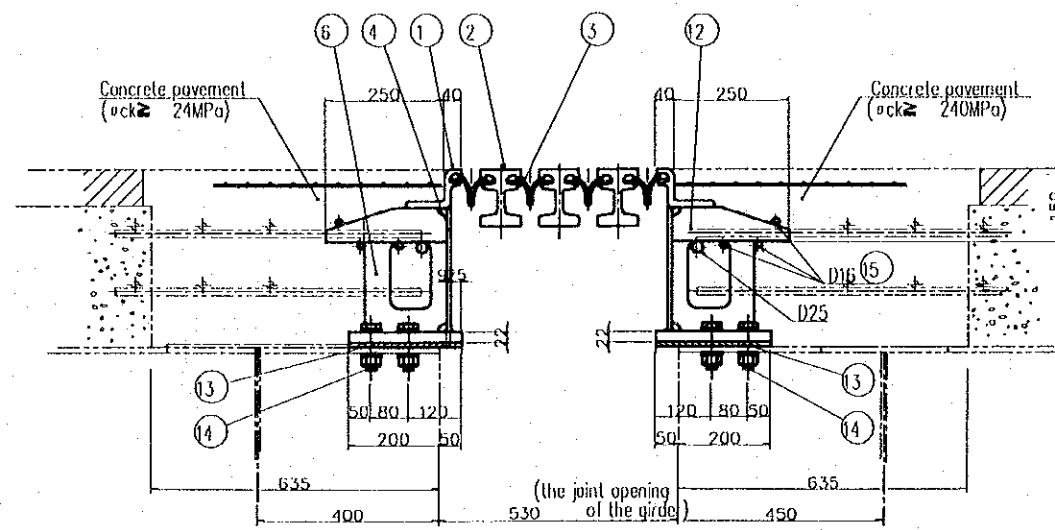
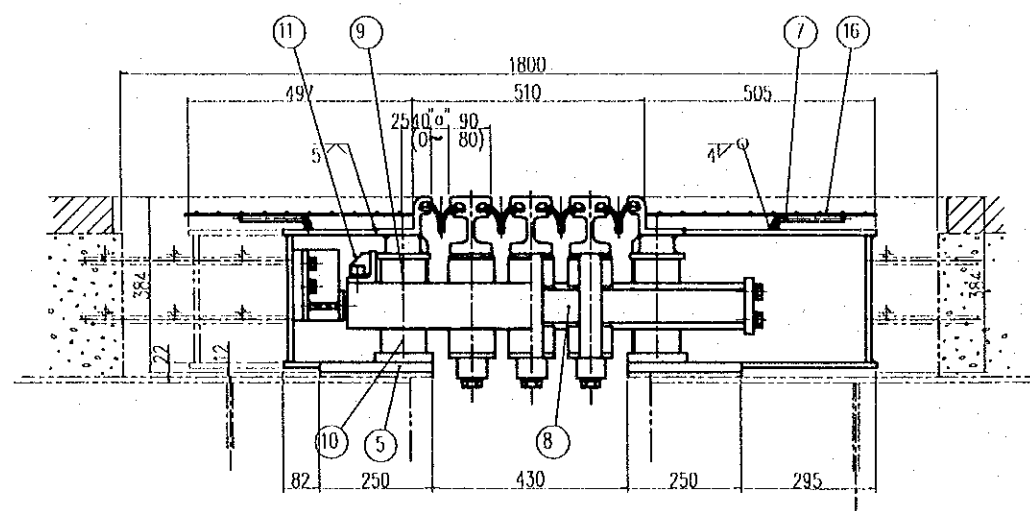
# DETAIL OF EXPANSION JOINT

SCALE 1:40



A-A

B-B



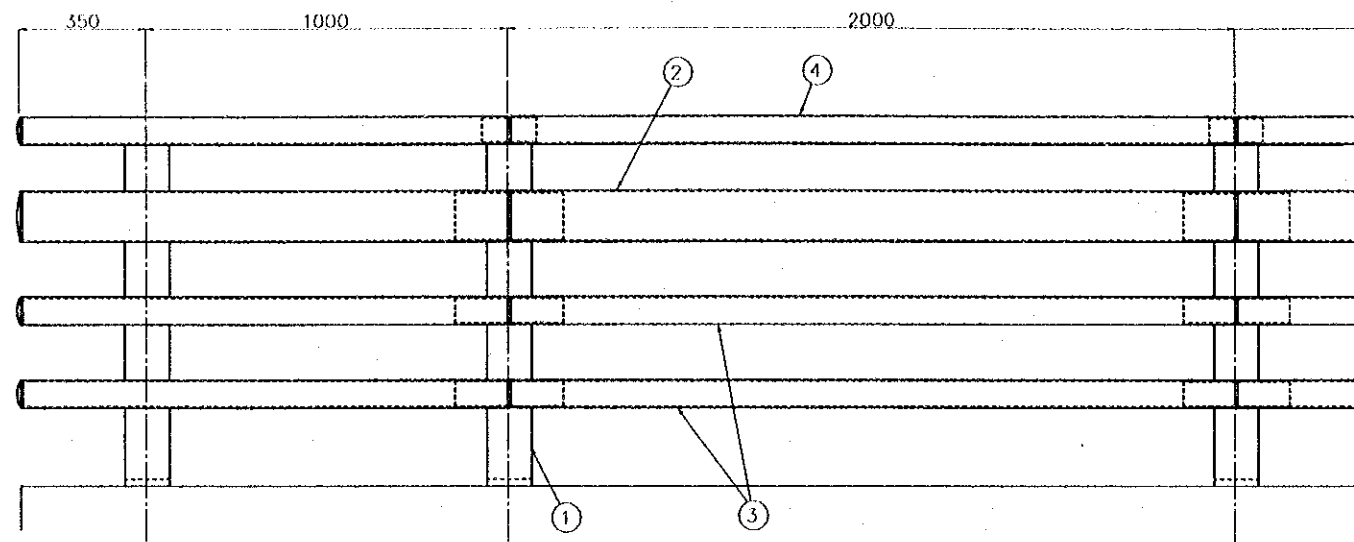
**NAME, MATERIAL**

- 1 end beam St52-3
- 2 middle beam St52-3
- 3 sealing rubber CR
- 4 web SS400
- 5 lower flange SS400
- 6 rib SS400
- 7 support wire-net SS400
- 8 support beam SS400
- 9 upper bearing CR
- 10 lower bearing CR
- 11 stopper 1 SS400
- 12 anchor SS400
- 13 jiner SS400
- 14 H1B 10.9
- 15 bars SD345
- 16 welded wire-net SWM-B

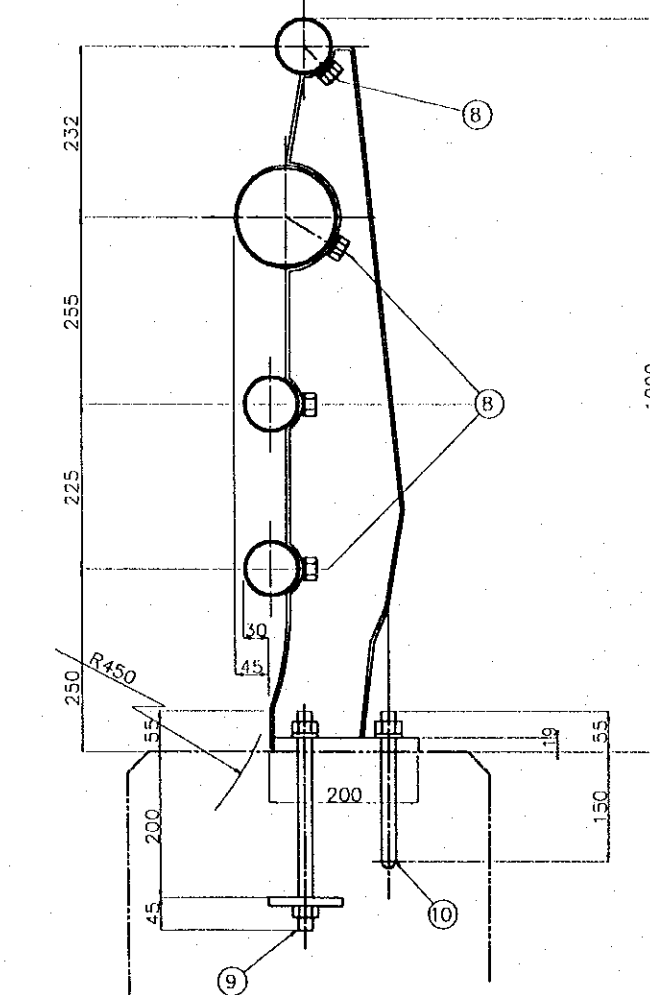
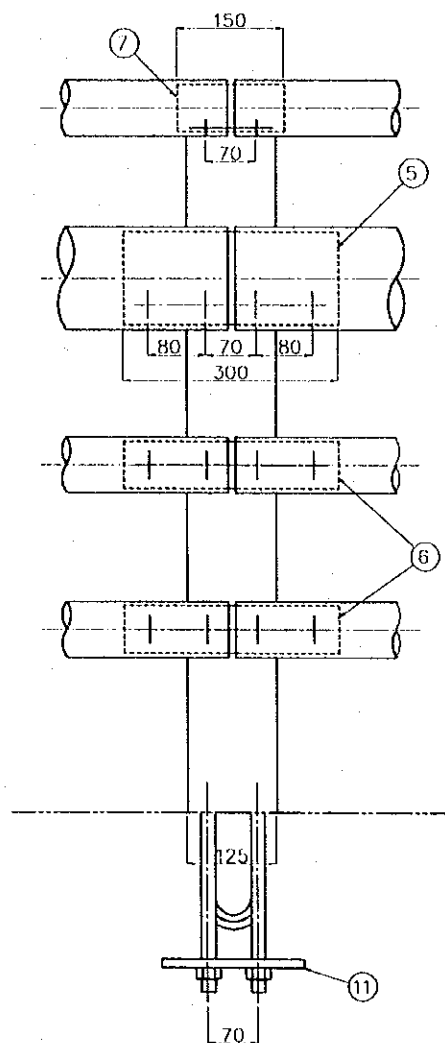
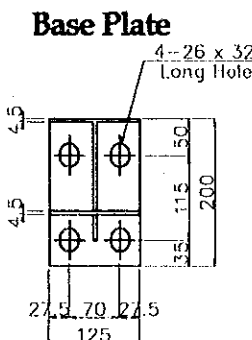
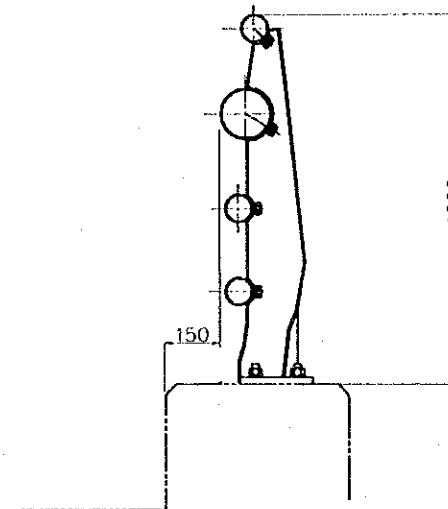
<b>PROJECT NAME</b> DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	<b>IMPLEMENTATION AGENCY</b> JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	<b>EXECUTING AGENCY</b> SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	<b>JICA STUDY TEAM</b> NIPPON KOEI CO., LTD.	<b>PREPARED BY</b> NAME: S. Kiguchi SIGNATURE: <i>S. Kiguchi</i> DATE: 20/9/2000	<b>CHECKED BY</b> K. Matsumoto SIGNATURE: <i>K. Matsumoto</i> DATE: 29/9/2000	<b>APPROVED BY</b> K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 3/10/2000	<b>DRAWING TITLE</b> CABLE STAYED BRIDGE SUPER STRUCTURE DETAIL OF EXPANSION JOINT	<b>DWG NO.</b> P2/CS/5050
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# DETAIL OF HANDRAILING

SCALE 1:20



Detail of Splice SCALE 1:10



No.	ITEM	SIZE	MATERIAL	NUMBER	WEIGHT PER PIECE	WEIGHT
①	Column	200 x 125 x 4.5	SS400	12	16.4kg	197kg
②	Main Beam	φ139.8 x 3.5	STK400	20m	11.8kg/m	236kg
③	Under Beam	φ 76.3 x 2.8	STK400	40m	5.08kg/m	203kg
④	Support Beam	φ 76.3 x 2.8	STK400	20m	5.08kg/m	102kg
⑤	Joint	φ127 x 4.5 x 300	STKM13A	10	4.08kg	41kg
⑥	Joint	φ 65 x 4.0 x 300	STKM13A	20	1.81 kg	36kg
⑦	Joint	φ 65 x 4.0 x 150	STKM13A	10	0.91kg	9 kg
⑧	Set Bolt	M18 x 35 ( B,N,W,SW )	over 4.8	156	0.15kg	23kg
⑨	Anchor Bolt	M22 x 300 ( B,N,W,SW )	over 6.8	24	1.12 kg	27kg
⑩	Anchor Bolt	M20 x 450 ( B,N,W,SW )	over 4.8	12	1.31 kg	16kg
⑪	Anchor Plate	PL100 x 12 x 200	SS400	12	1.88kg	23kg
Total Weight per 20m						913kg

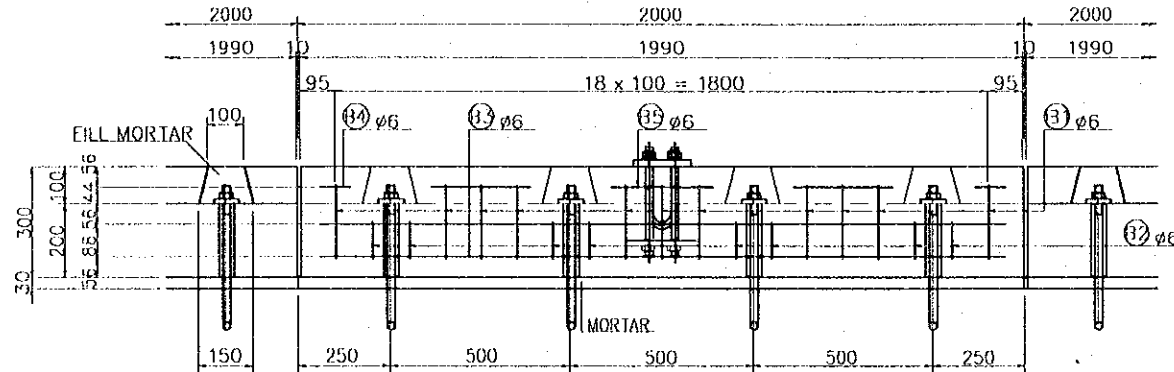
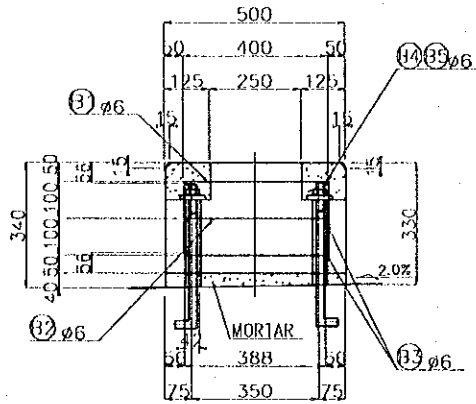
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT ( MOT ) MY THUAN PROJECT MANAGEMENT UNIT	NK NIPPON KOEI CO.,LTD.	NAME S. Kiguchi SIGNATURE <i>S. Kiguchi</i> DATE 20/9/2000	NAME K. Matsumoto SIGNATURE <i>K. Matsumoto</i> DATE 29/9/2000	NAME K. Enomoto SIGNATURE <i>K. Enomoto</i> DATE 5/10/2000	CABLE STAYED BRIDGE SUPER STRUCTURE DETAIL OF HANDRAILING	P2/CS/5060

## DETAIL OF PRECAST CURB (FOR CONCRETE GIRDER)

Precast RC Curb  
Elevation

SCALE 1:20

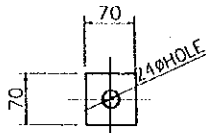
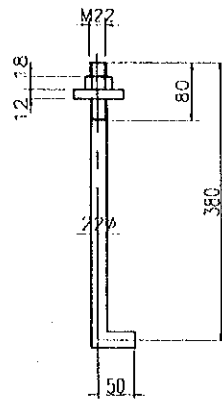
Section



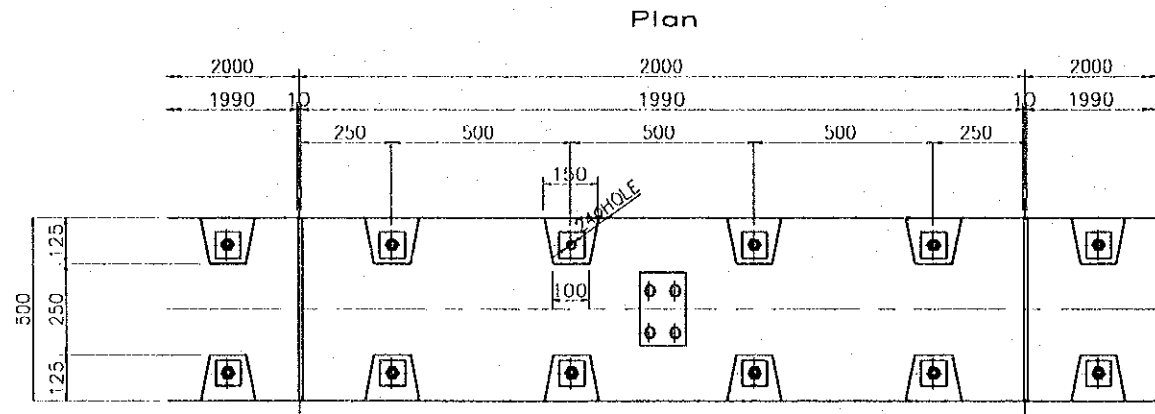
### LIST OF REINFORCEMENT PRECAST RC WALL ONE BLOCK

MARK	SECTION	LENGTH (mm)	EACH	WEIGHT /M(kg)	WEIGHT /ONE(kg)	WEIGHT (kg)	REMARKS
B1	ø6	1380	11	0.222	0.306	3	
B2	ø6	1180	8	0.222	0.262	2	
B3	ø6	1890	4	0.222	0.120	2	
B4	ø6	80	4	0.222	0.018	0.1	
B5	ø6	280	6	0.222	0.062	0.4	
7.5 kg							
ø6(SR235) 7.5 kg							
CONCRETE 0.29 m <sup>3</sup>							
1.34 m <sup>3</sup>							
FILL MORTAR 0.01 m <sup>3</sup>							
MORTAR 0.04 m <sup>3</sup>							
8--ANCHOR BOLT 22øx430 (SS400) 9 kg							
8--PL 70x12x70 (SS400) 3 kg							

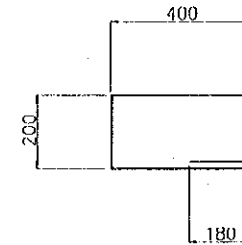
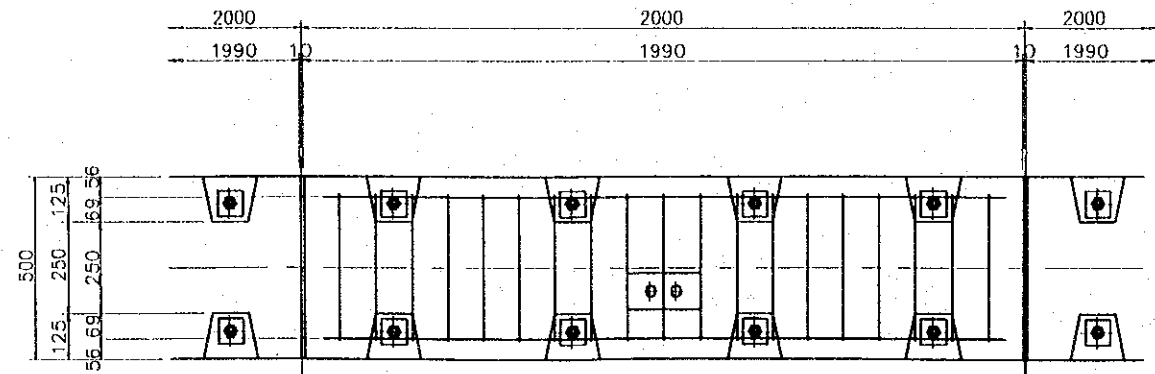
### DETAIL OF ANCHOR BOLT



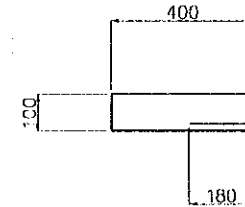
1--STUD 22øx280 (SS400)  
1--PL 70x12x70 (SS400)  
1--Nut M22 (SS400)



ONE BLOCK  
8--STUD 22øx280 (SS400 OR NSD400)  
8--PL 70x12x70 (SS400)  
8--Nut M22 (SS400)



ⓑ1 11--ø6x1380 (SR235)



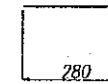
ⓑ2 8--ø6x1180 (SR235)



ⓑ3 4--ø6x1890 (SR235)



ⓑ4 4--ø6x80 (SR235)



ⓑ5 6--ø6x280 (SR235)

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS DETAIL OF PRECAST CURB (1)	P2/CS/5070
				SIGNATURE: S. Kiguchi	SIGNATURE: K. Matsumoto	SIGNATURE: K. Enomoto		
				DATE: 20/9/2000	DATE: 29/9/2000	DATE: 5/10/2000		

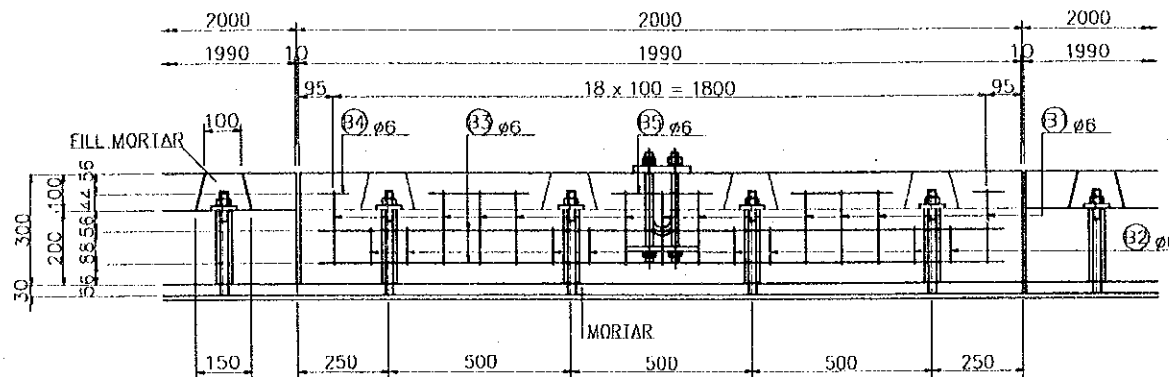
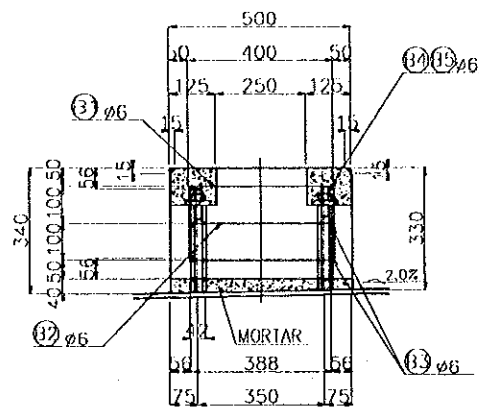


# DETAIL OF PRECAST CURB (FOR STEEL GIRDER)

## Precast RC Curb Elevation

SCALE 1:20

**Section**

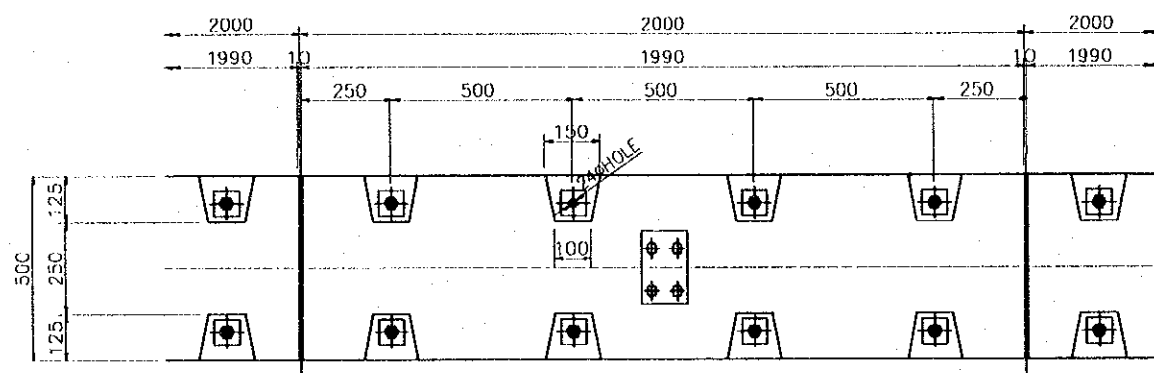


### LIST OF REINFORCEMENT

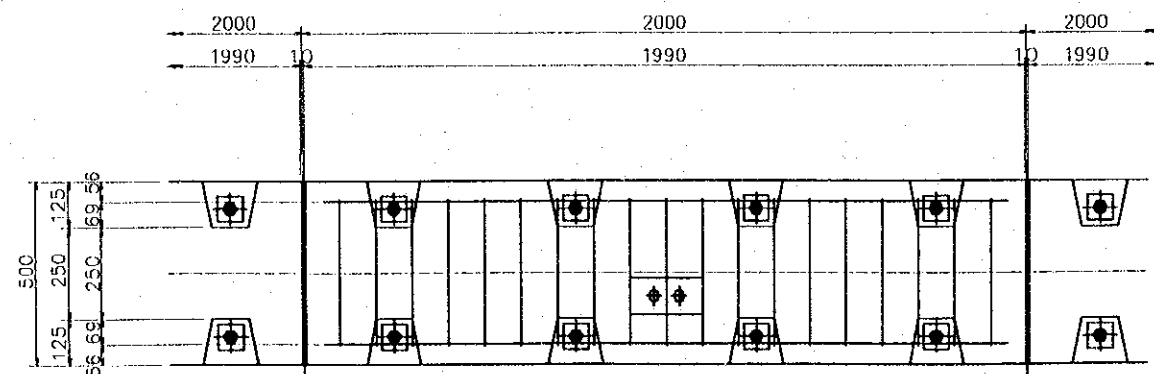
PRECAST RC WALL ONE BLOCK

MARK	SECTION	LENGTH (mm)	EACH	WEIGHT /M(kg)	WEIGHT /ONE(kg)	WEIGHT (kg)	REMARKS
B1	ø6	1380	11	0.222	0.306	5	□
B2	ø6	1180	8	0.222	0.262	2	□
B3	ø6	1890	4	0.222	0.420	2	□
B4	ø6	80	4	0.222	0.018	0.1	□
B5	ø6	280	6	0.222	0.062	0.4	□
						7.5 kg	
						ø6(SR235)	7.5 kg
						CONCRETE	0.29 m <sup>3</sup>
							1.34 m <sup>3</sup>
						FILL MORTAR	0.01 m <sup>3</sup>
						MORTAR	0.04 m <sup>3</sup>
						8-STUD 22øx280 (SS400)	7 kg
						8-PL 70x12x70 (SS400)	3 kg

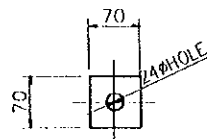
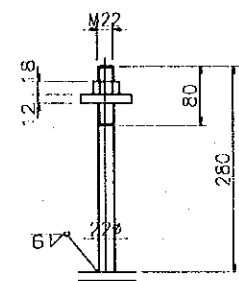
**Plan**



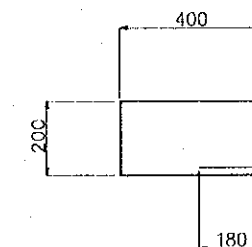
ONE BLOCK  
8-STUD 22øx280 (SS400 OR NSD400)  
8-PL 70x12x70 (SS400)  
8-Nut M22 (SS400)



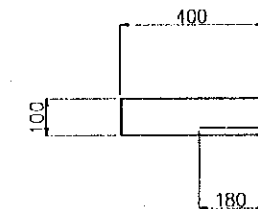
**Stud Detail SCALE 1:5**



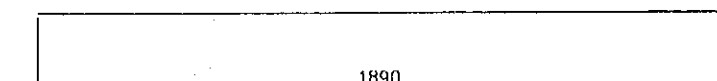
1-STUD 22øx280 (SS400)  
1-PL 70x12x70 (SS400)  
1-Nut M22 (SS400)



ⓑ 11-ø6x1380 (SR235)



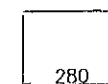
ⓑ 8-ø6x1180 (SR235)



ⓑ 4-ø6x1890 (SR235)



ⓑ 4-ø6x80 (SR235)

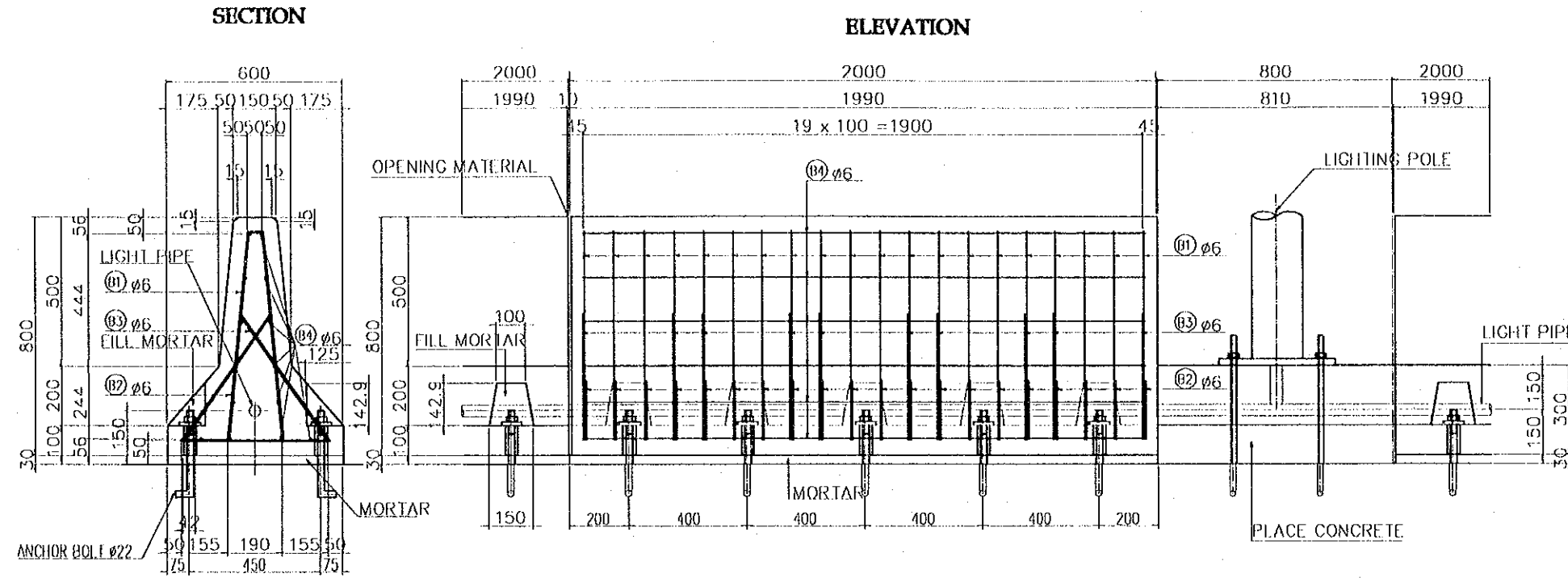


ⓑ 6-ø6x280 (SR235)

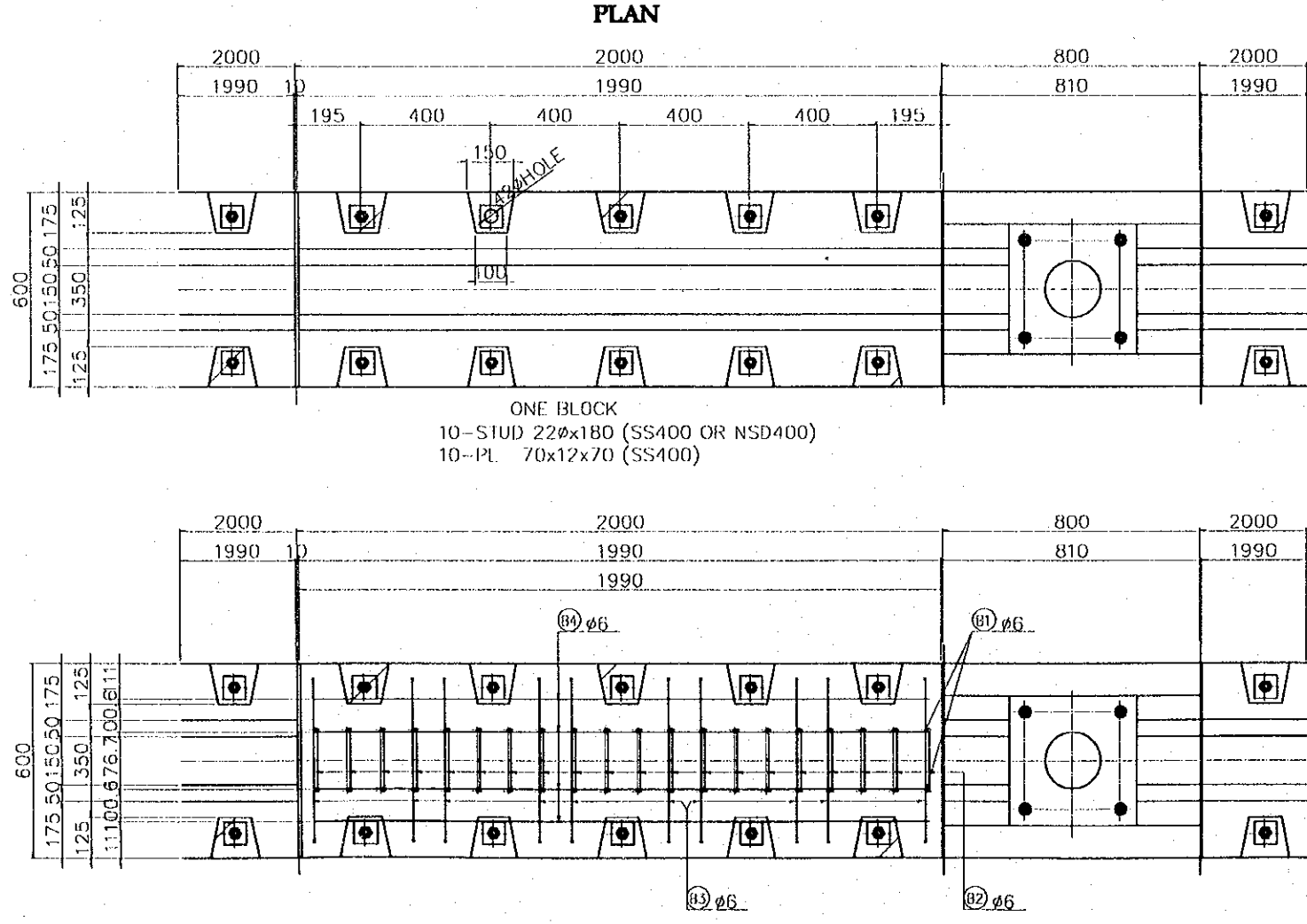
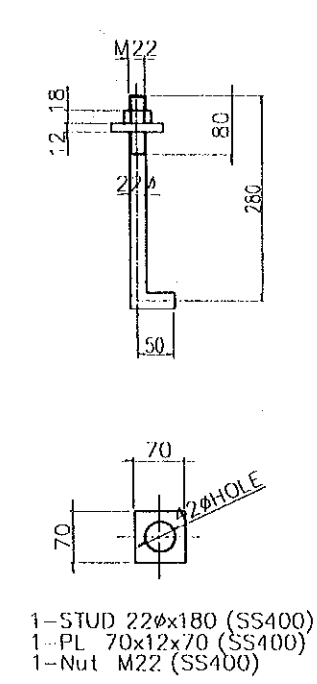
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS DETAIL OF PRECAST CURB (2)	P2/CS/5080
				NAME	S. Kiguchi	K. Matsumoto		
				SIGNATURE	<i>S. Kiguchi</i>	<i>K. Matsumoto</i>	<i>K. Enomoto</i>	
				DATE	20/9/2000	29/9/2000	5/10/2000	

# DETAIL OF PRECAST CENTRAL RESERVE (1)

SCALE 1:20  
(FOR CONCRETE GIRDER)

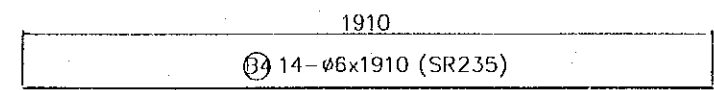
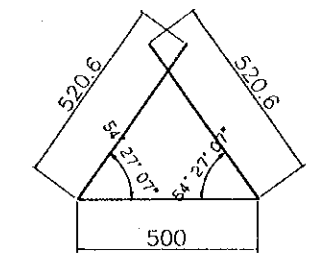
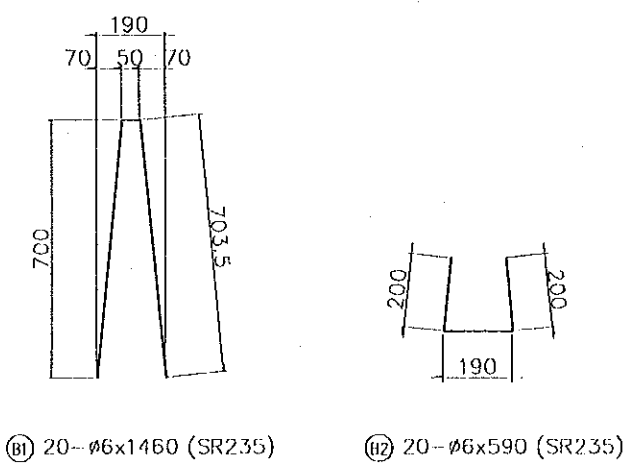


**ANCHOR BOLT DETAIL**  
SCALE 1:10



**LIST OF REINFORCEMENT**  
PRECAST RC WALL ONE BLOCK

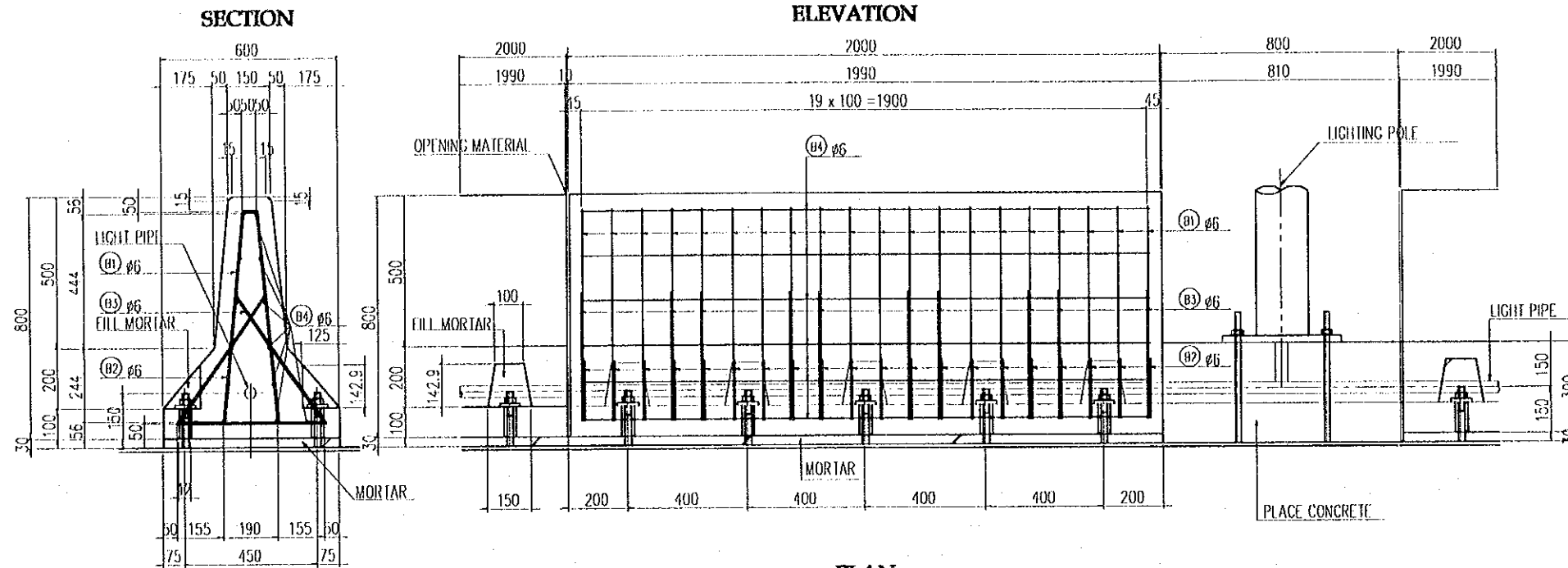
MARK	SECTION	LENGTH (mm)	EACH	WEIGHT /M(kg)	WEIGHT /ONE(kg)	WEIGHT (kg)	REMARKS	
B1	ø6	1460	20	0.222	0.524	6	△	
B2	ø6	590	20	0.222	0.131	3	△	
B3	ø6	1540	10	0.222	0.342	3	△	
B4	ø6	1910	14	0.222	0.424	6	△	
						18	kg	
						ø6(SR235)	18	kg
						CONCRETE	0.48	m³
							5.62	m³
						FILL MORTAR	0.01	m³
						MORTAR	0.04	m³
						10-ANCHOR BOLT 22øx330 (SS400)	10	kg
						10-PL 70x12x70 (SS400)	3	kg



PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS DETAIL OF PRECAST CENTRAL RESERVE (1)	P2/CS/3090
				DATE: 20/9/2000	DATE: 29/9/2000	DATE: 5/10/2000		

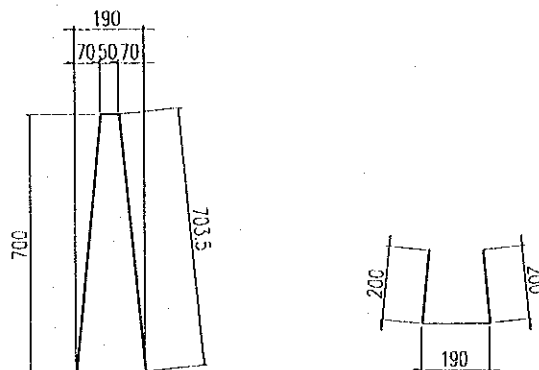
# DETAIL OF PRECAST CENTRAL RESERVE (2)

SCALE 1:20  
(FOR STEEL GIRDER)

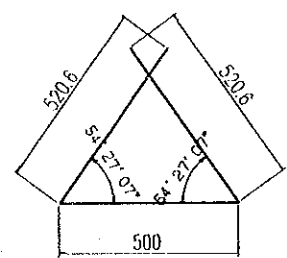


## LIST OF REINFORCEMENT PRECAST RC WALL ONE BLOCK

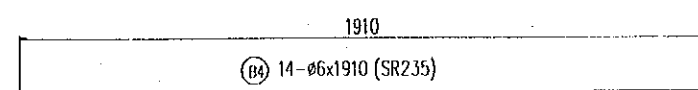
MARK	SECTION	LENGTH (mm)	CACI	WEIGHT /M(kg)	WEIGHT /ONE(kg)	WEIGHT (kg)	RE MARKS
B1	∅6	1460	20	0.222	0.324	6	△
B2	∅6	590	20	0.222	0.131	3	△
B3	∅6	1540	10	0.222	0.342	3	△
B4	∅6	1910	14	0.222	0.424	6	△
							18 kg
∅6(SR235)							18 kg
CONCRETE							rr#
FILL MORTAR							0.01 rr#
MORTAR							0.04 rr#
10-STUD 22∅x180 (SS400)							6 kg
10-PL 70x12x70 (SS400)							3 kg



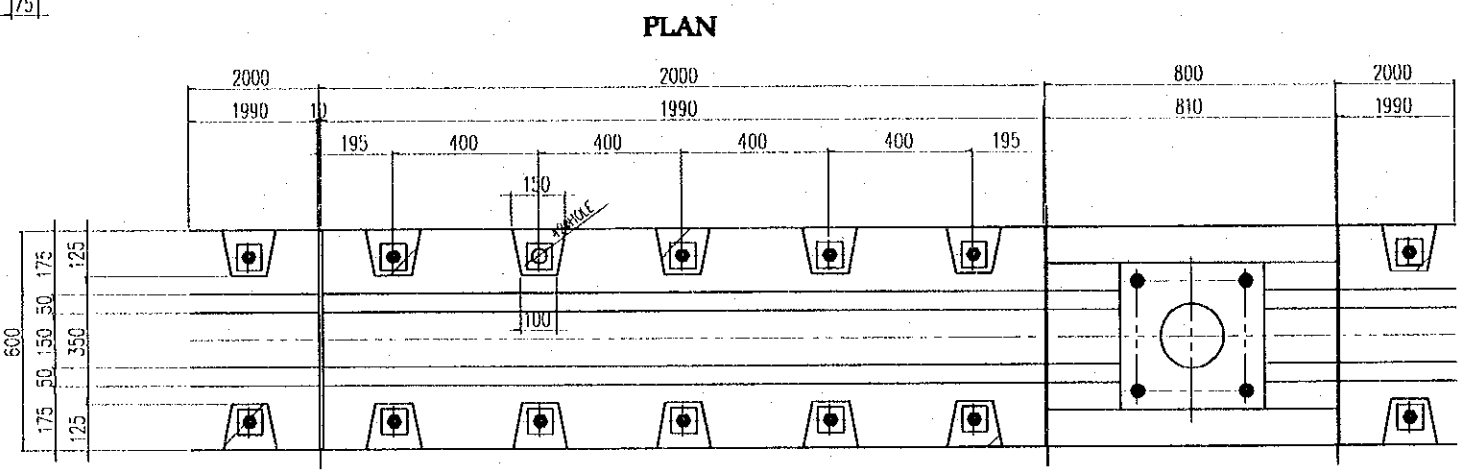
B1 20-∅6x1460 (SR235)      B2 20-∅6x590 (SR235)



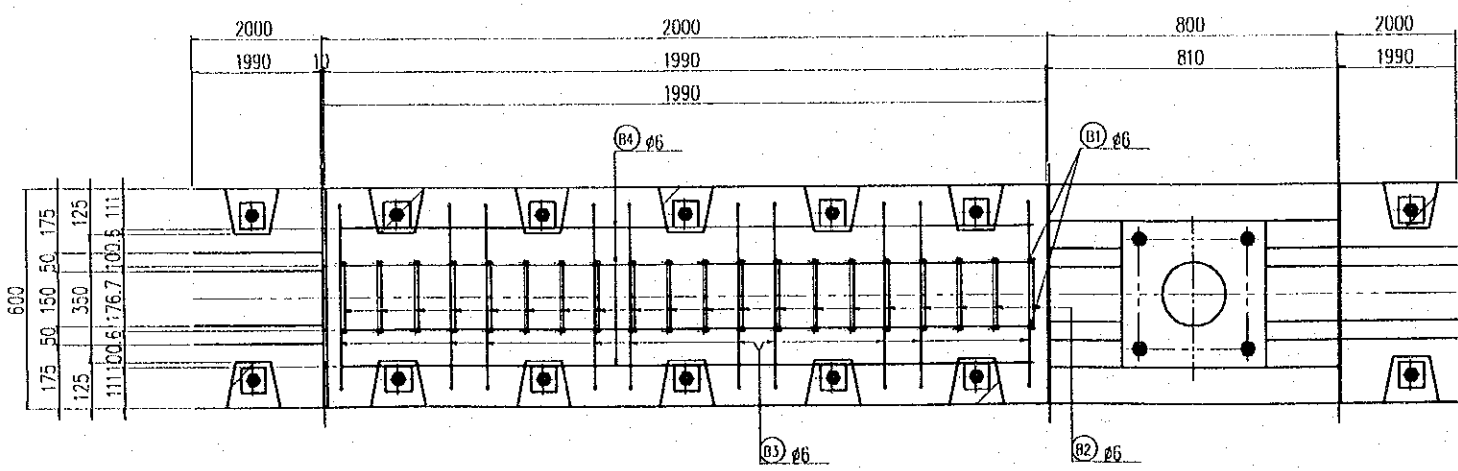
B3 10-∅6x1540 (SR235)



B4 14-∅6x1910 (SR235)

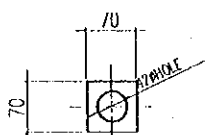
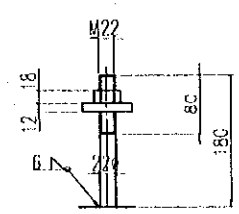


ONE BLOCK  
10-STUD 22∅x180 (SS400 OR NSD400)  
10-PL 70x12x70 (SS400)



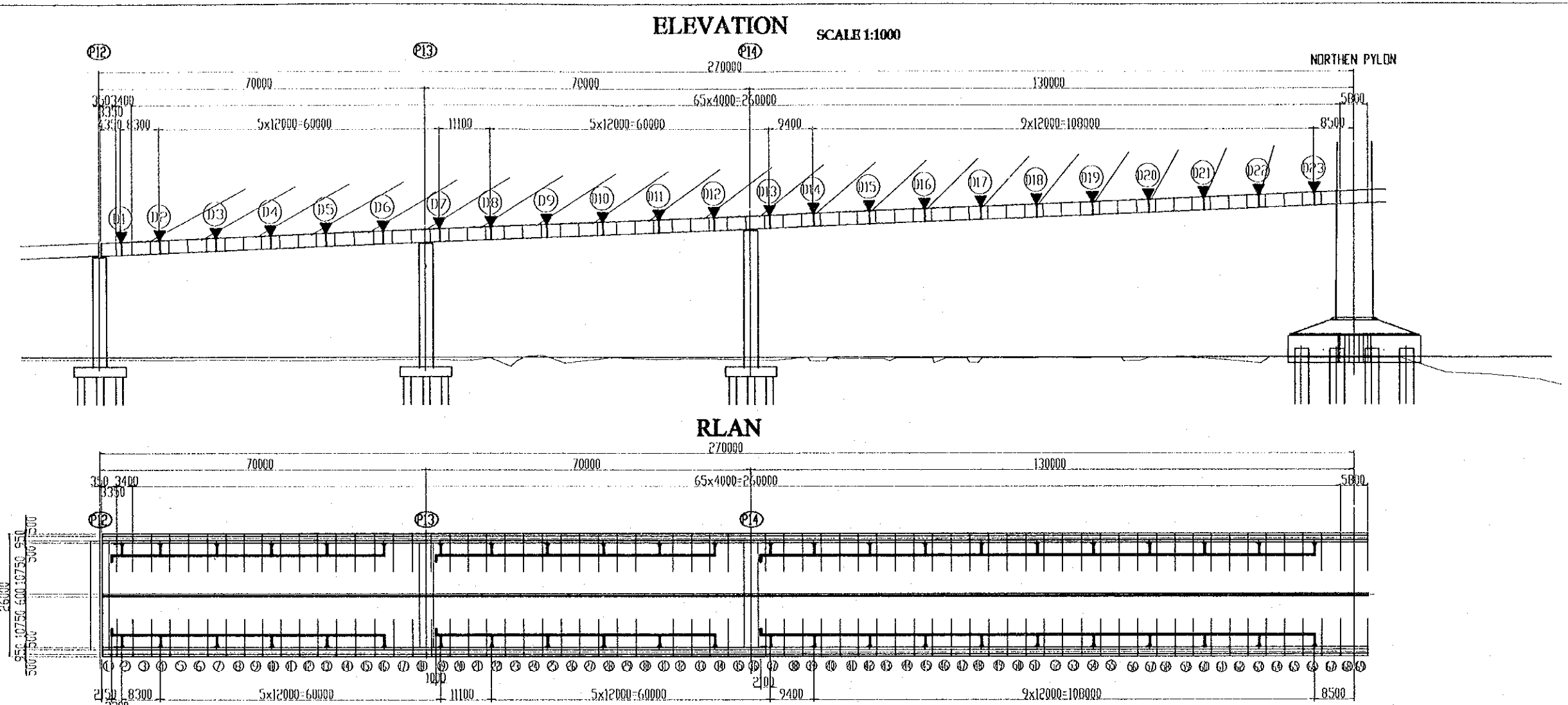
### DETAIL

SCALE 1:10

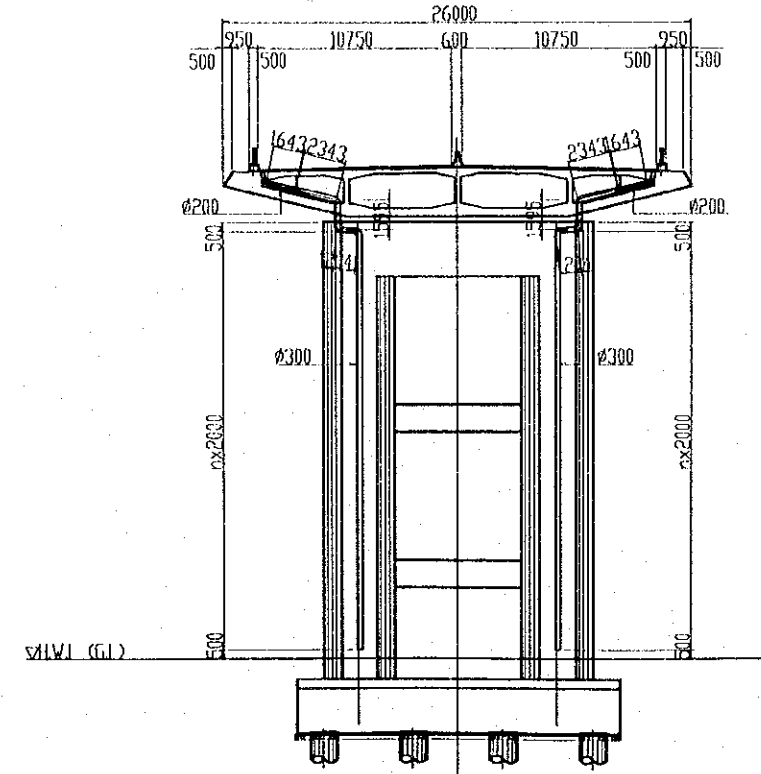


1-STUD 22∅x180 (SS400)  
1-PL 70x12x70 (SS400)  
1-Nut M22 (SS400)

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPON KOEI CO.,LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS DETAIL OF PRECAST CENTRAL RESERVE (2)	F2/CS/5100
				SIGNATURE: S. Kiguchi	SIGNATURE: K. Matsumoto	SIGNATURE: K. Enomoto		
				DATE: 20/9/2000	DATE: 29/9/2000	DATE: 5/10/2000		

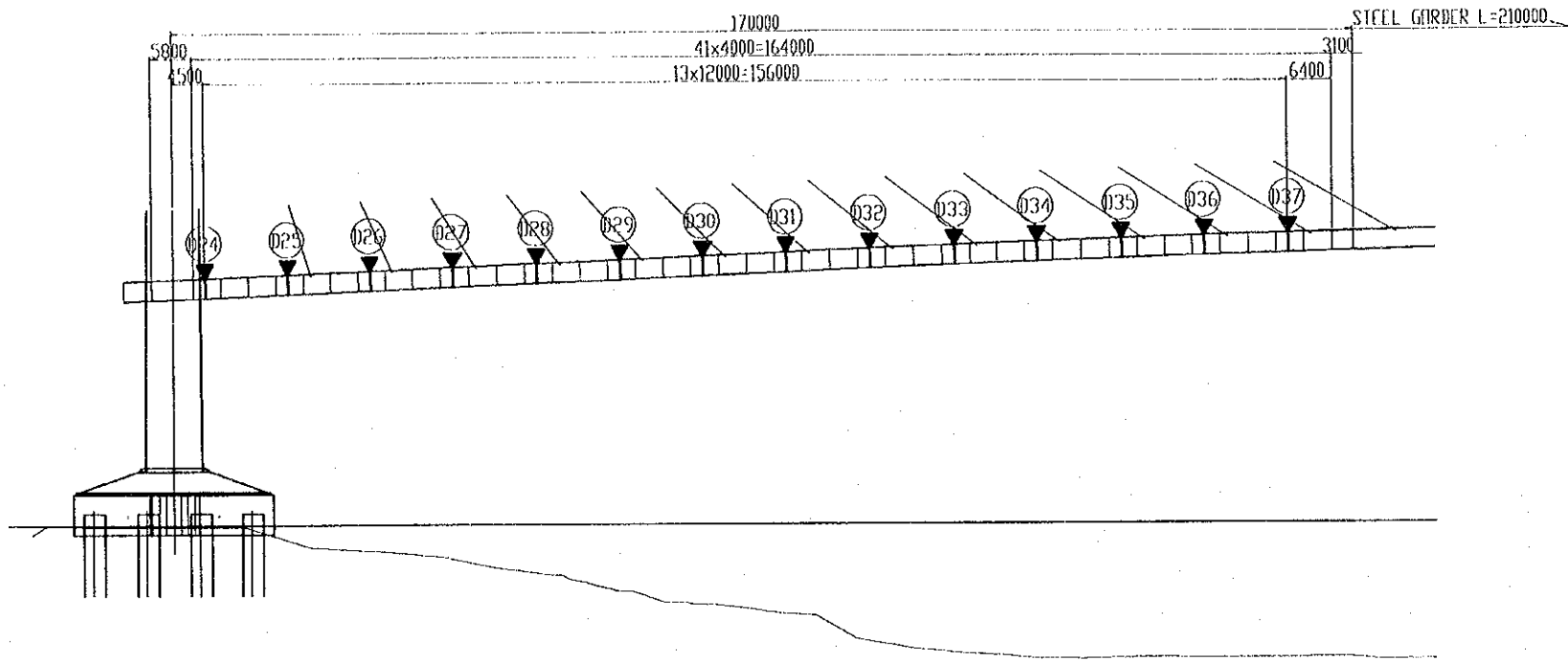


**DRAINAGE ARRANGEMENT** SCALE 1:400

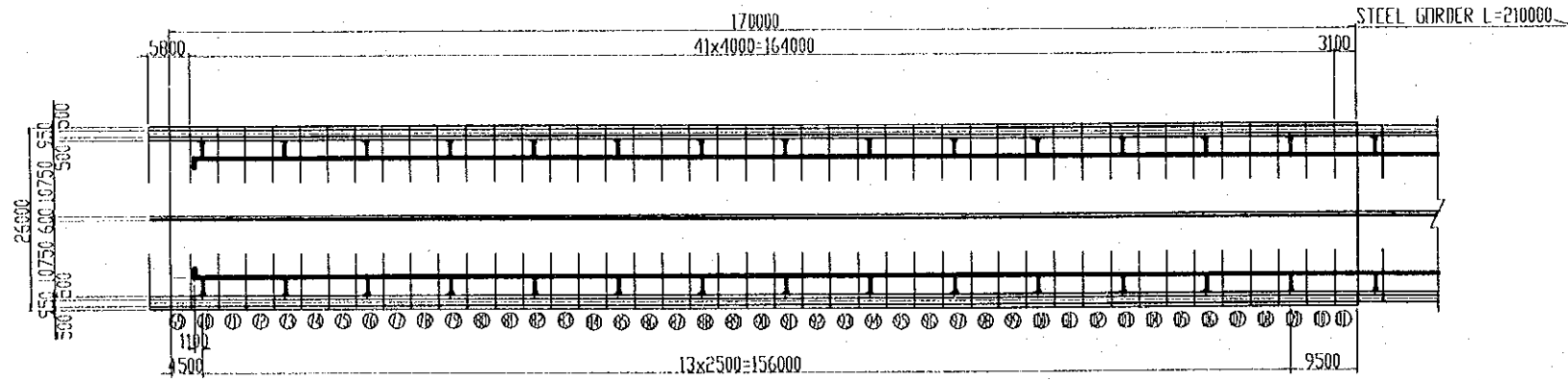


PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NK NIPPON KOEI CO.,LTD.	NAME S. Kiguchi SIGNATURE <i>S. Kiguchi</i> DATE 20/9/2000	NAME K. Matsumoto SIGNATURE <i>K. Matsumoto</i> DATE 29/9/2000	NAME K. Enomoto SIGNATURE <i>K. Enomoto</i> DATE 5/10/2000	CABLE STAYED BRIDGE MISCELLANEOUS LAYOUT OF DRAINAGE (1)	PZCS/5110

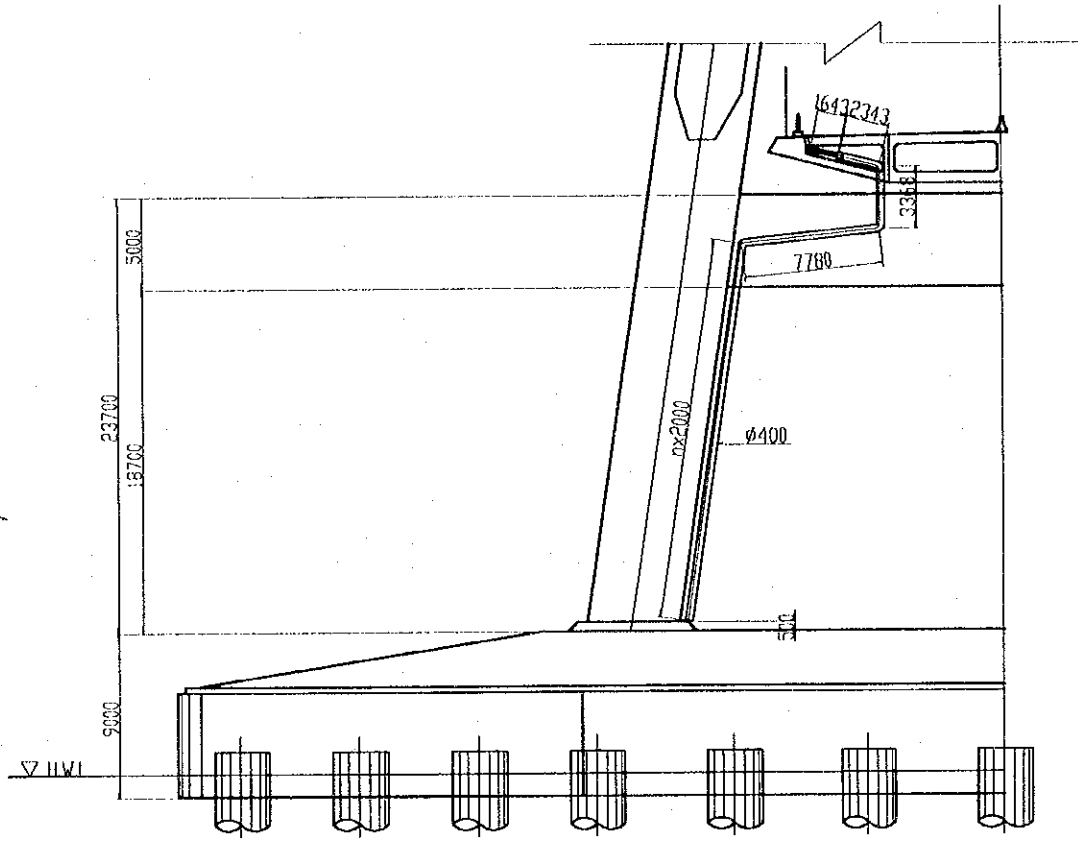
ELEVATION SCALE 1:1000



RLAN

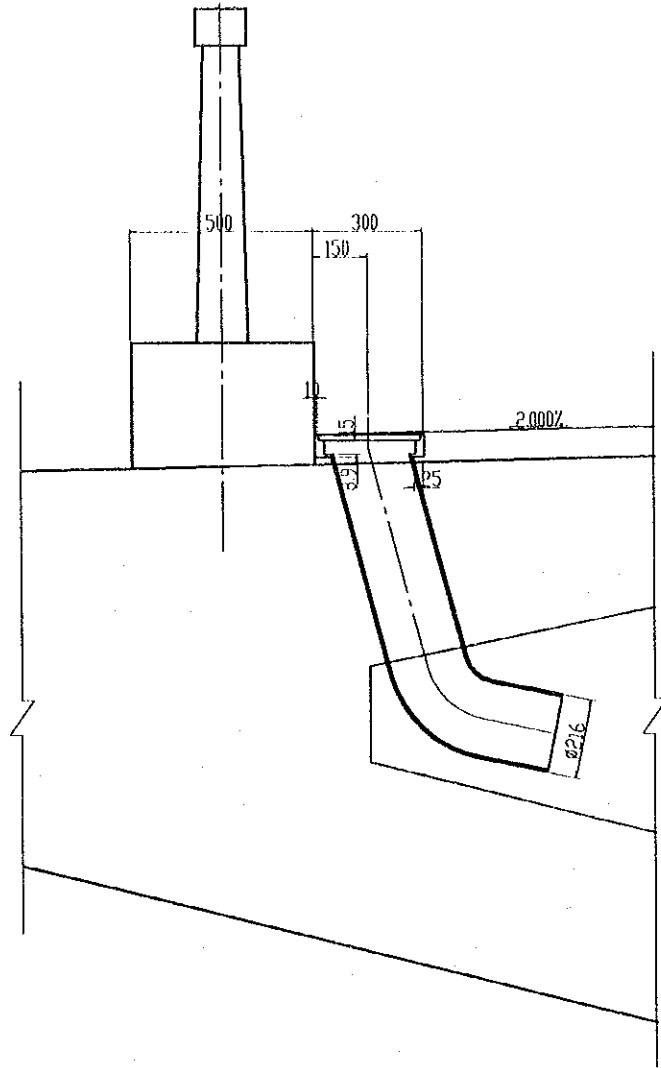


DRAINAGE ARRANGEMENT SCALE 1:400

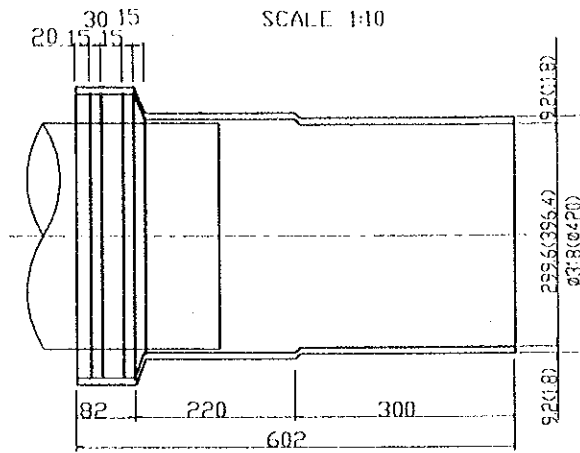


PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NK NIPPON KOEI CO.,LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS LAYOUT OF DRAINAGE (2)	P2/CS/5120
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

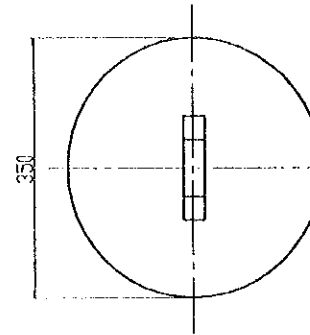
SIDE VIEW SCALE 1:50



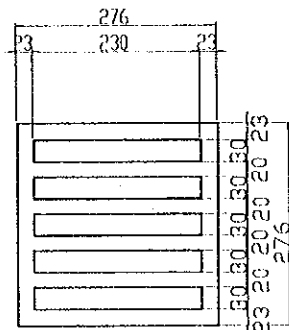
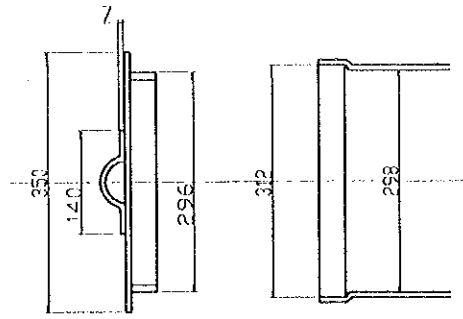
SCALE 1:10



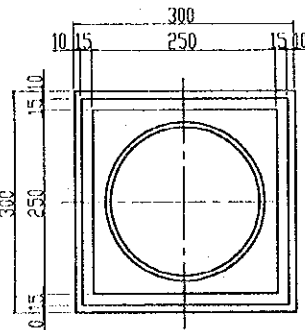
EXPANSION PIPE JOINT



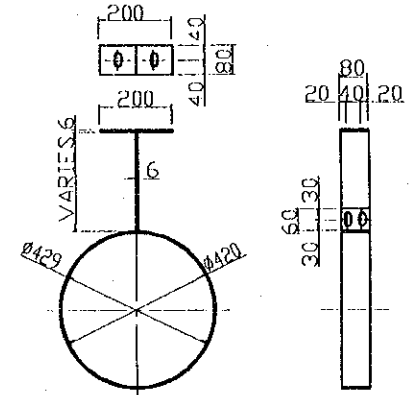
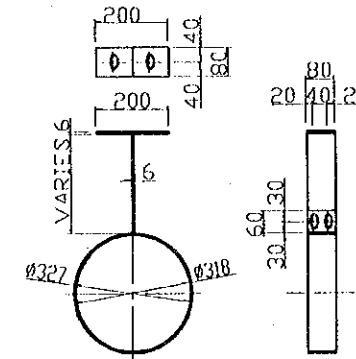
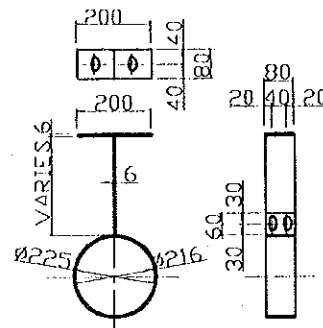
PIPE END COVER



SCREEN

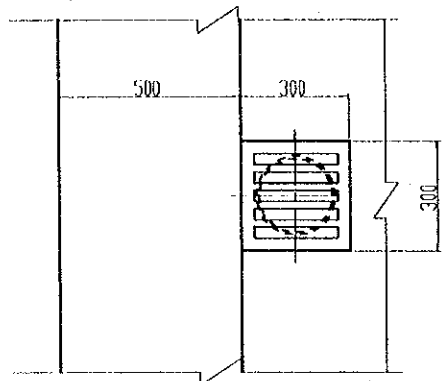


DRAIN BOX



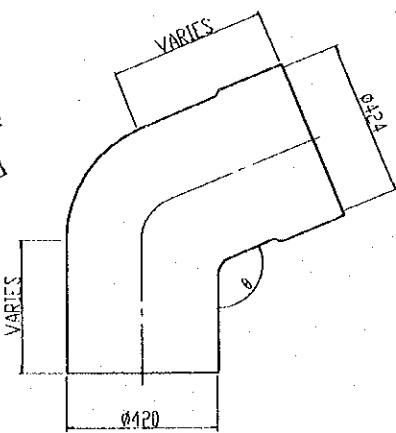
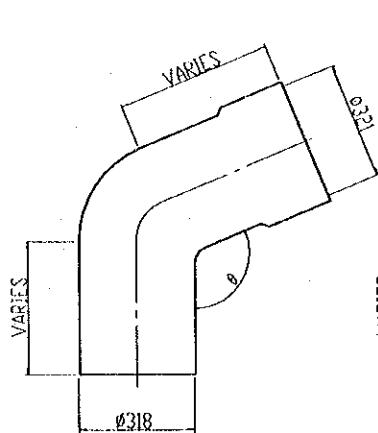
HANGER SCALE 1:50

SS400

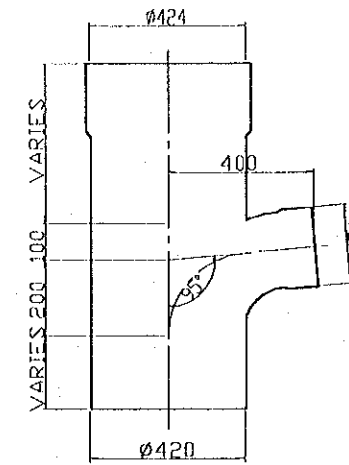
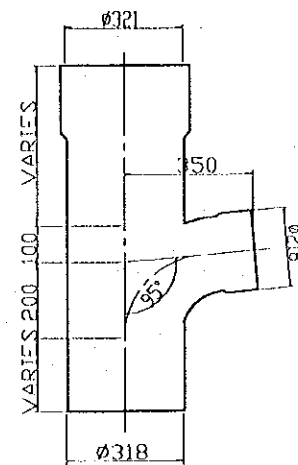


A - A

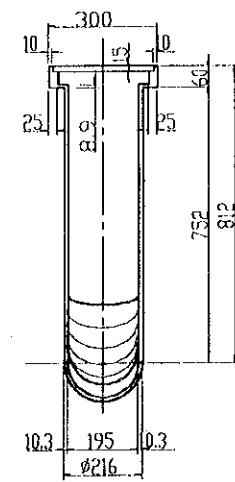
LOCATION OF DRAIN



BEND PIPE

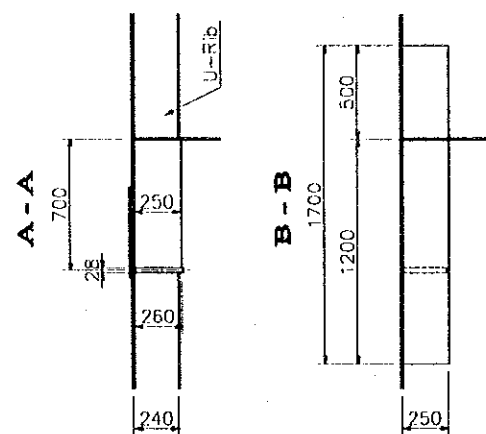
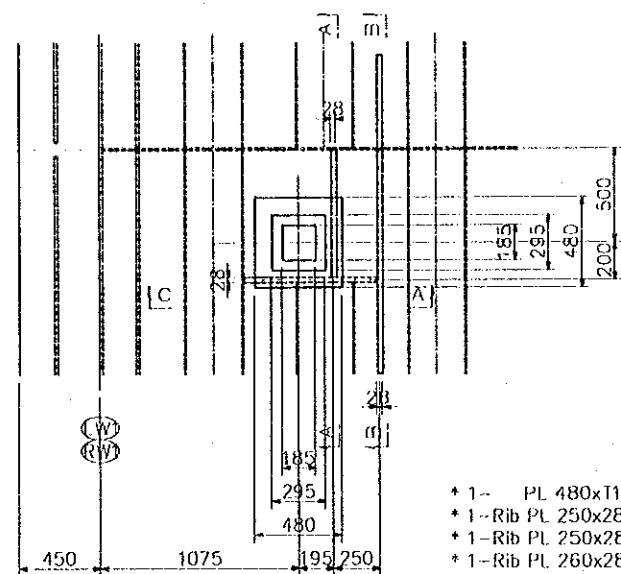


T PIPE

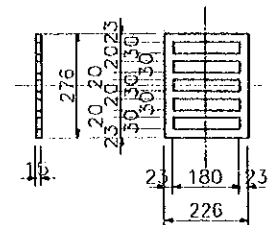


DECK DRAIN

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOBI CO.,LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS LAYOUT OF DRAINAGE (3)	F2/CS/5130
				DATE: 20/9/2000	DATE: 29/9/2000	DATE: 5/10/2000		

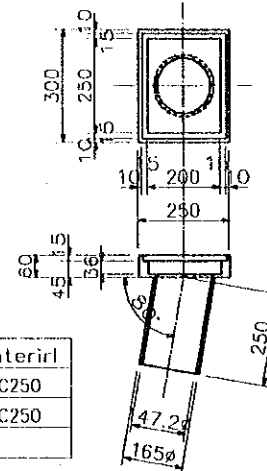


Cast Iron Mesh

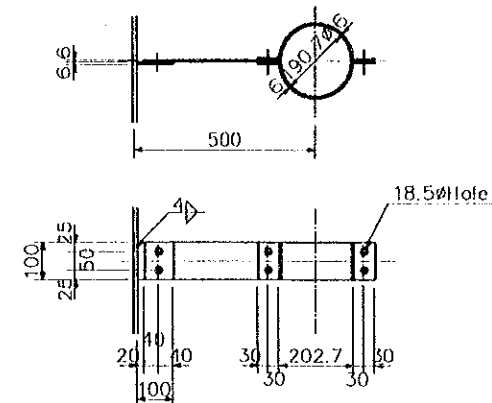


	Weight	Material
Catch-Basin	19.4	FC250
Cast Iron Mesh	3.8	FC250
	23.2kgf	

Catch-Basin

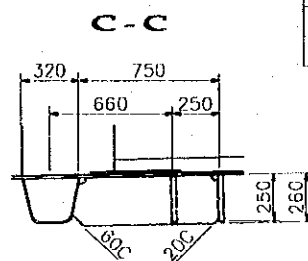
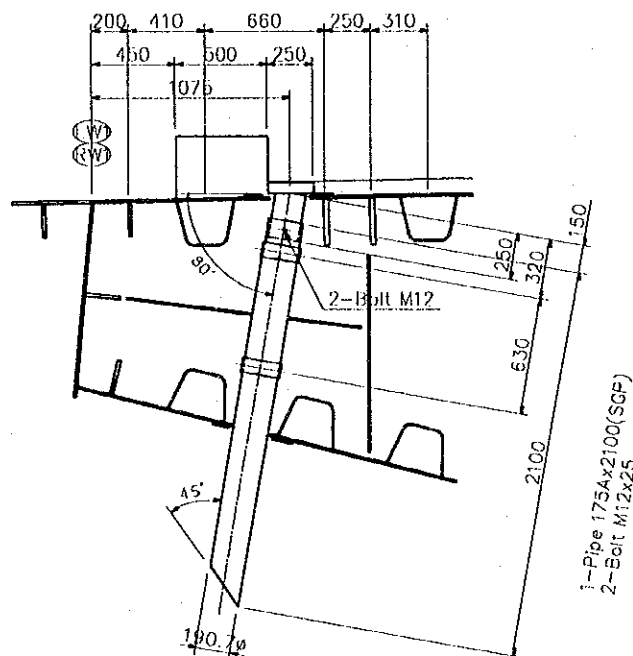


Hanger

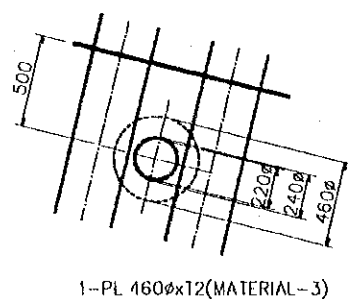
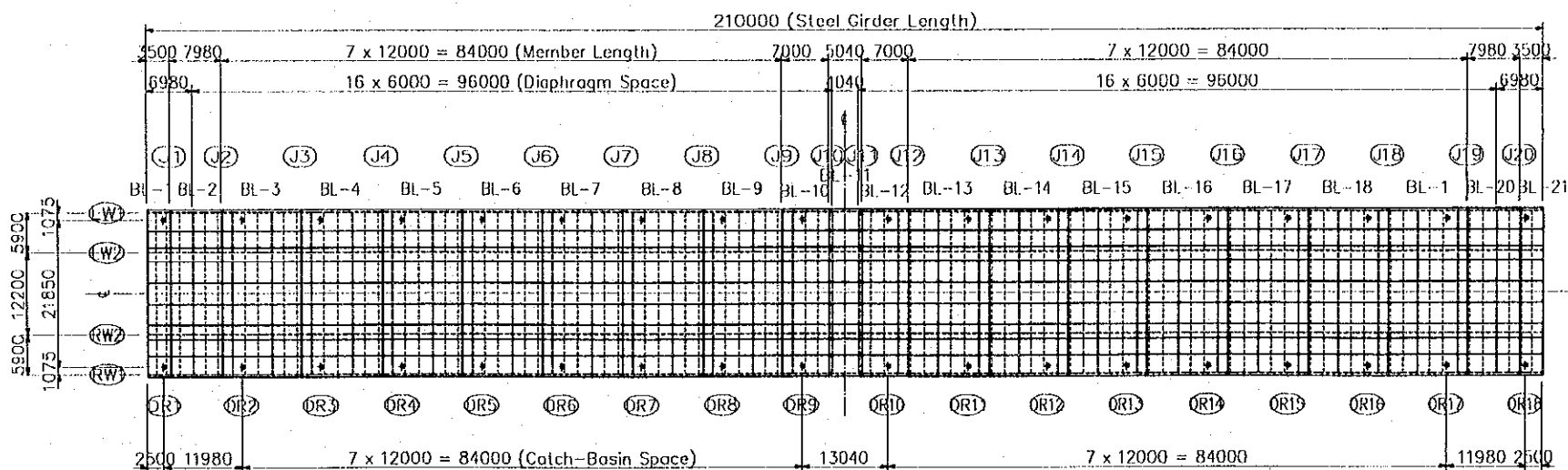


- \* 1- PL 100x6x100(SMA400AW)
- 1- PL 100x6x5/3
- 2- PL 100x6x426
- 4- I.C.B M16x45(S101W)
- 2- I.C.B M16x50(S101W)

	T1	T2	MATERIAL-1	MATERIAL-2	MATERIAL-3
DR1,2,17,18	19	34	SMA570W	SMA570W	SMA570W
DR3,4,15,16	19	25	SMA570W	SMA570W	SMA570W
DR5,13	14	19	SMA570W	SMA490BW	SMA490BW
DR6~12	14	12	SMA490AW	SMA490BW	SMA490AW



Key Plan



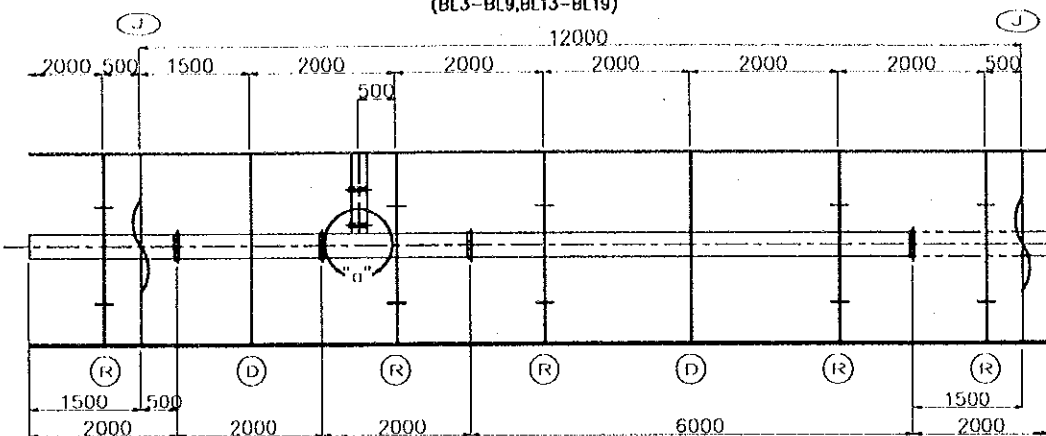
Remarks  
 1.As long as not being specified, all materials shall be SS400.  
 2.All materials shall be galvanized, without "\*".

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOBICO.,LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS DETAIL OF DRAINAGE FACILITY (1)	P2/CS/5140
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	3/10/2000	

SCALE 1:100

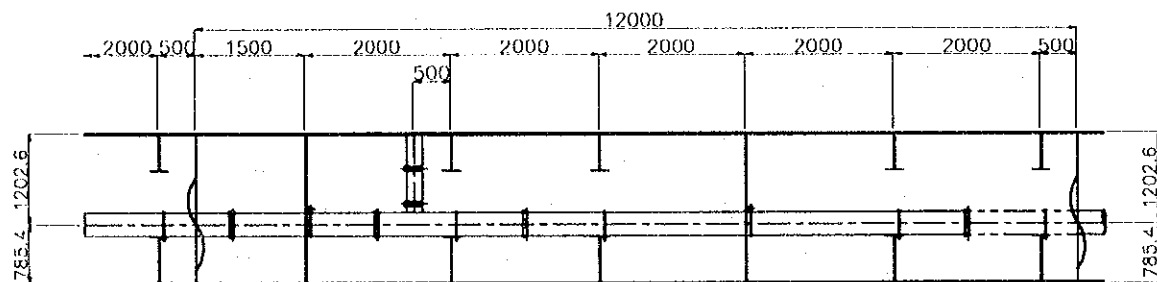
**Standard block**

(BL3-BL9, BL13-BL19)



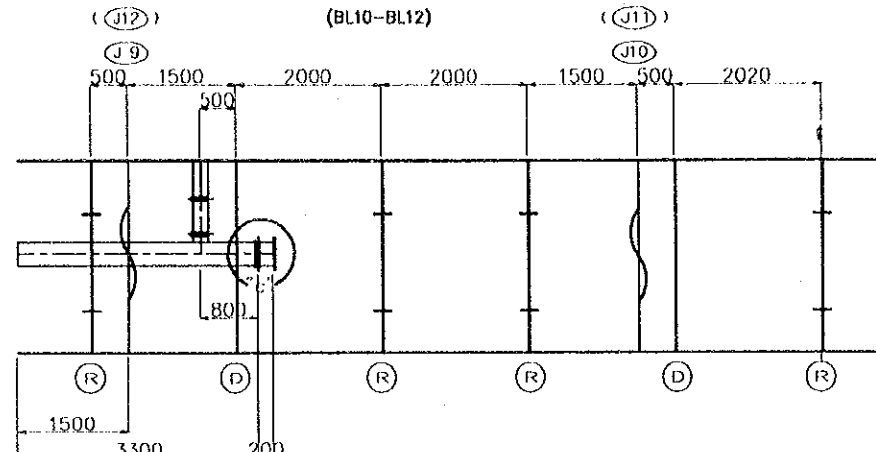
- 3- PIPE 300A x 6.9 x 1995 (SGP)
- 1- PIPE 300A x 6.9 x 5995 (SGP)

**Side View**



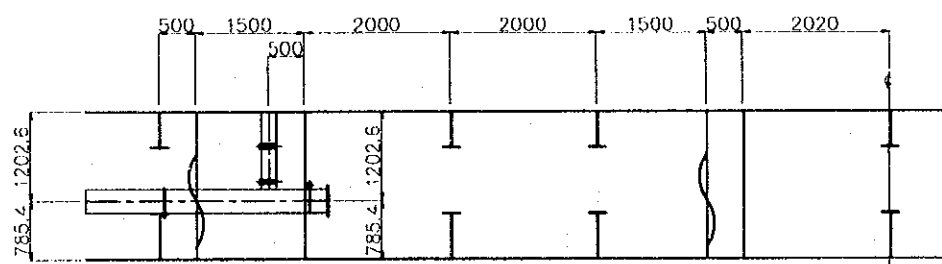
**Center Block**

(BL10-BL12)

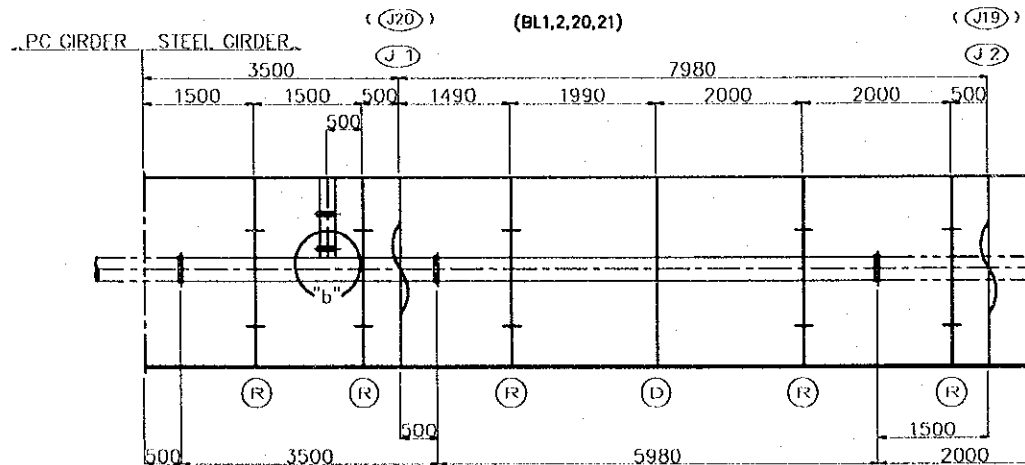


- 1- PIPE 300A x 6.9 x 3298 (SGP)
- 1- PIPE 300A x 6.9 x 198 (SGP)

**Side View**

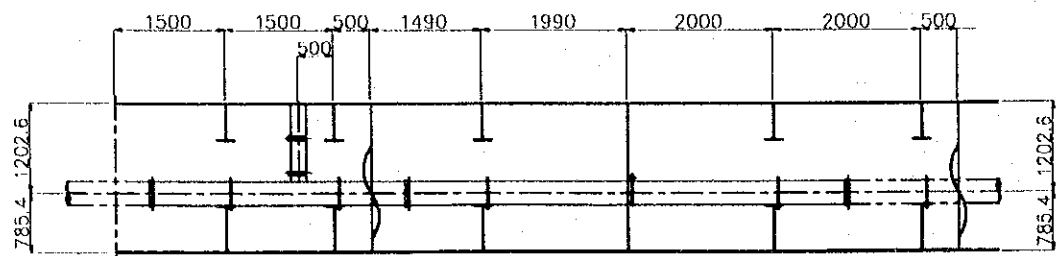


**Connection Block between Steel to PC Girder**

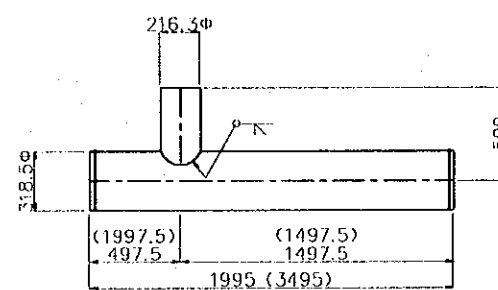


- 1- PIPE 300A x 6.9 x 3495 (SGP)
- 1- PIPE 300A x 6.9 x 5975 (SGP)

**Side View**

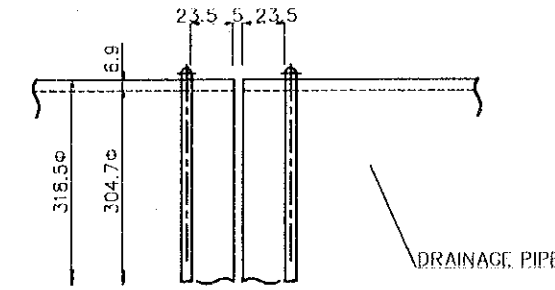


**Detail of "a", "b"**



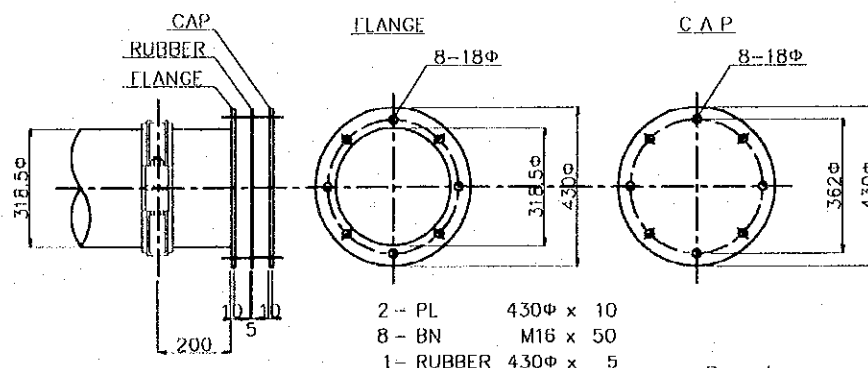
- 1- PIPE 200A x 5.8 x 383 (SGP)

**Detail of Drainage Pipe Connected**



- 1- RB 6Φ x 1019

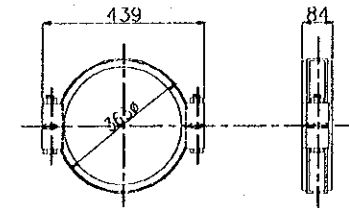
**Detail of "c"**



- 2- PL 430Φ x 10
- 8- BN M16 x 50
- 1- RUBBER 430Φ x 5

**Flexible Joint**

N-O N = 128pieces

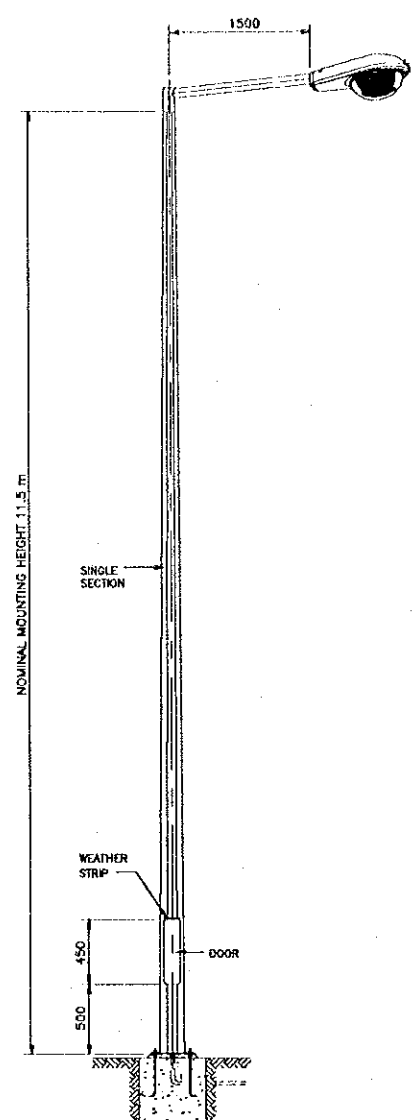
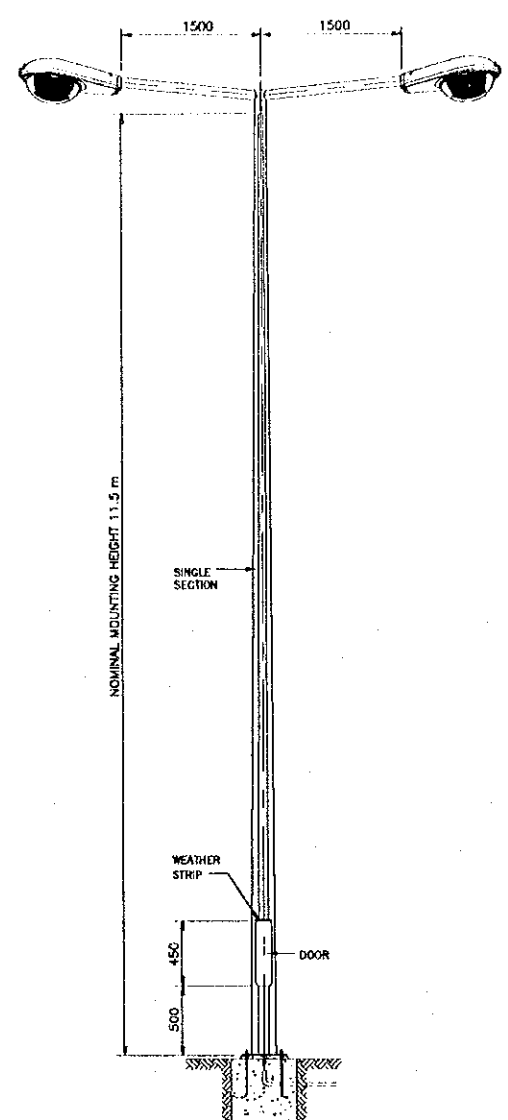



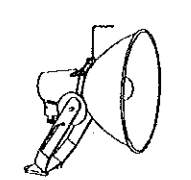
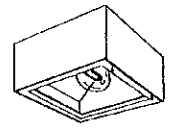
**Remarks**

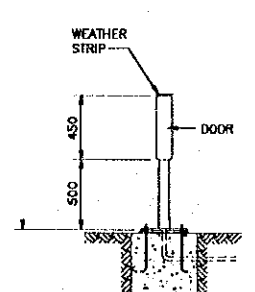
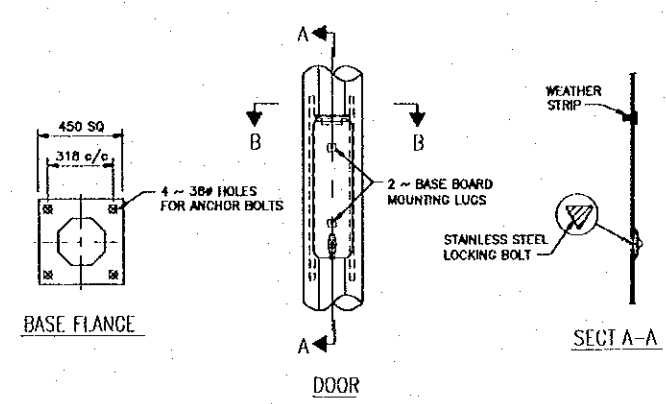
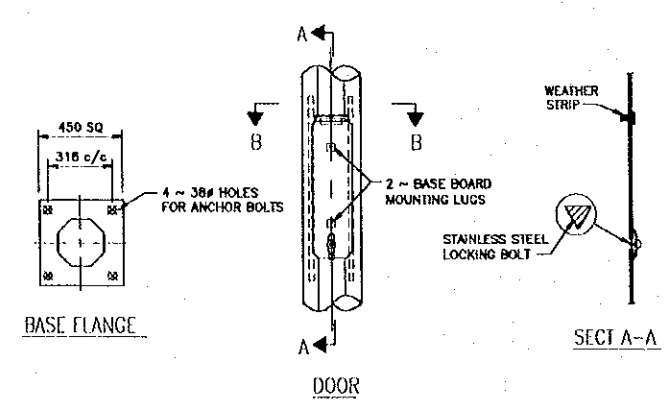
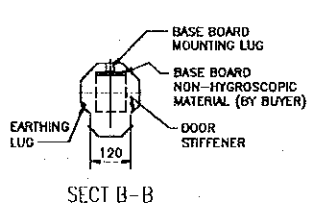
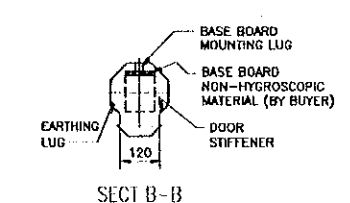
1. As long as not being specified, all materials shall be SS400.
2. All materials shall be galvanized, without "\*".

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOBICO, LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS DETAIL OF DRAINAGE FACILITY (2)	P2/CS/5150

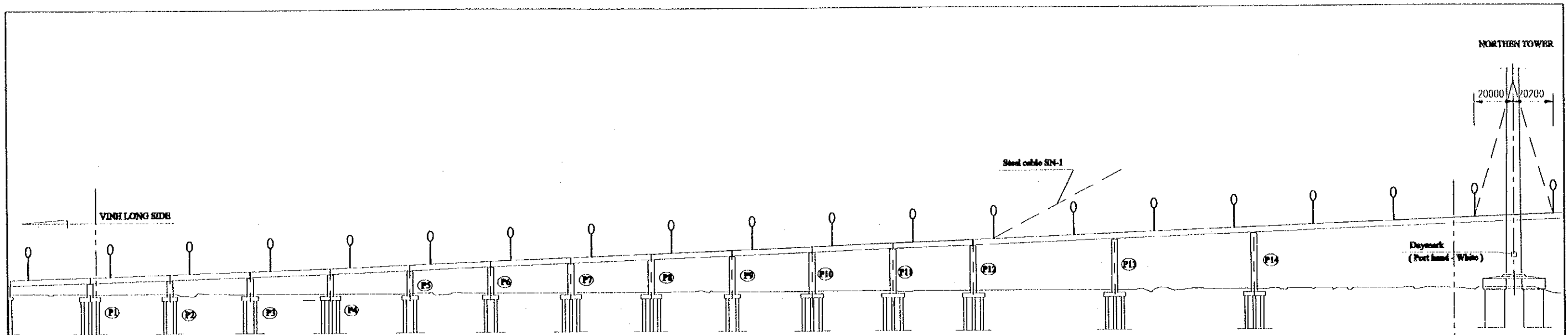




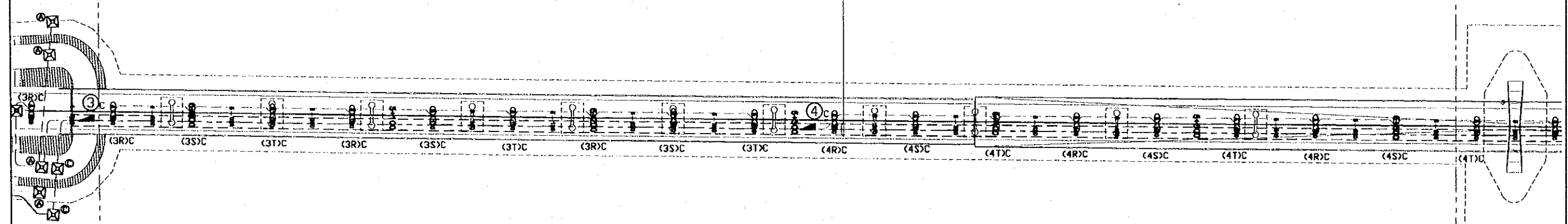
SYMBOL	DESCRIPTION	TYPE OF LAMP
○	A 251W, A 252W	NH 250W
		
SYMBOL	DESCRIPTION	TYPE OF LAMP
▷	B 101W	H 1000W
		
SYMBOL	DESCRIPTION	TYPE OF LAMP
□	C 151W	NH 150W
		



PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NK NIPPON KOEI CO.,LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS ROAD LIGHTING	F2/CS/5160
				SIGNATURE: S. Kiguchi	K. Matsumoto	K. Enomoto		
				DATE: 20/9/2000	29/9/2000	5/10/2000		

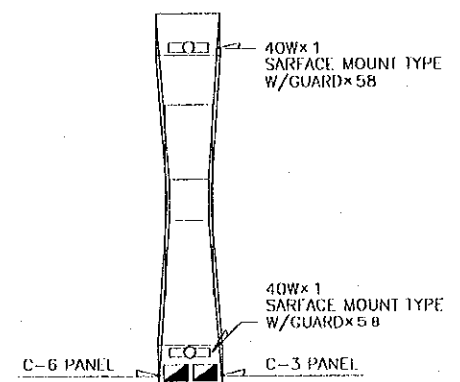
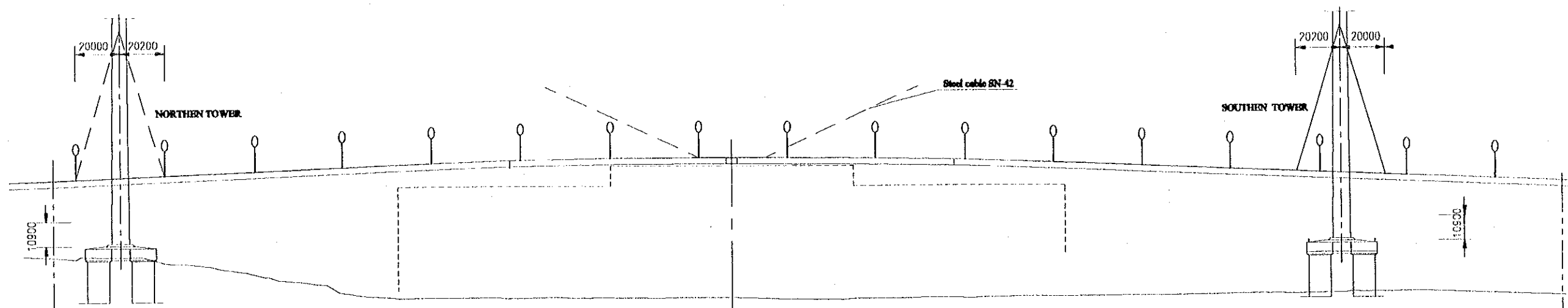


④c	CABLE RACK W=1000 W/SEP
⑤c	XLPE/SWA/ PVC 25sq-4C
⑥c	XLPE/SWA/ PVC 25sq-4C
C-3	XLPE/SWA/ PVC 70sq-4C + PVC 10sq
C-6	XLPE/SWA/ PVC 95sq-4C + PVC 10sq
	22kv XLPE/SWA/PVC 185sq-3C



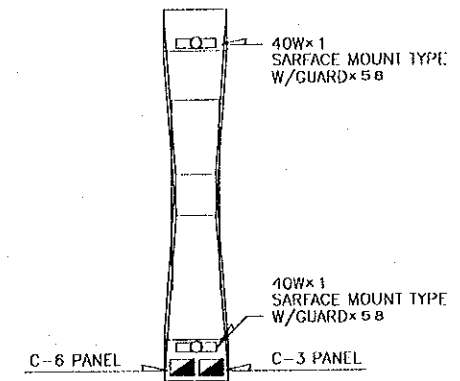
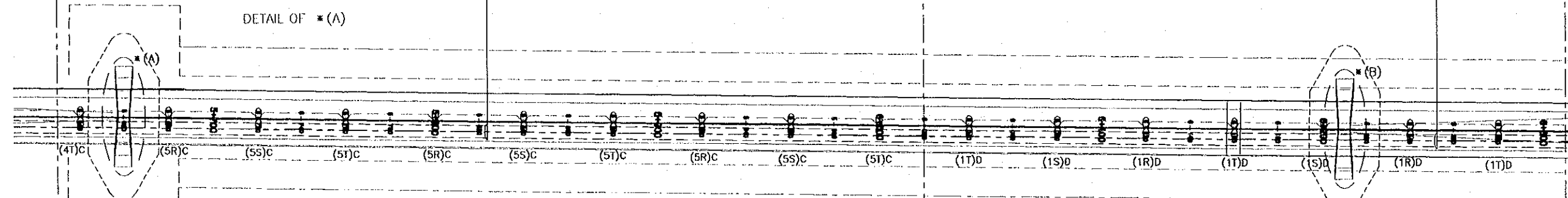
- Note:**
- 22KV XLPE/SWA/PVC 185sq-3C
  - Under Ground Cable
  - GIP Conduit Pipe
  - C--- SPARE Conduit (For Future)
  - ○ ○ Un Armoured Cable (GIP Conduit)
  - ○ ○ Armoured Cable (Under Ground)
  - [ ] Cable Rack (w/sep)
  - Road Lighting (Single Arm)
  - ○ Road Lighting (Double Arm)
  - △ Flood Lighting
  - Ceiling Lighting
  - ⊠ Foundation (For Future)
  - ⊠ MAN HOLE 1500×1500×1500<sup>D</sup>
  - ⊠ MAN HOLE 2700×2700×1500<sup>D</sup>
  - ⊠ MAN HOLE 3700×3700×1500<sup>D</sup>
  - ⊠ MAN HOLE 1000×1000×1000<sup>D</sup>

PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM NIPPON KOEI CO.,LTD.	PREPARED BY NAME S. Kiguchi	CHECKED BY NAME K. Matsumoto	APPROVED BY NAME K. Enomoto	DRAWING TITLE CABLE STAYED BRIDGE MISCELLANEOUS ROAD LIGHTING LAYOUT (1)	DWG NO. P2/CS/5170
				SIGNATURE	SIGNATURE	SIGNATURE		
				DATE 20/9/2000	DATE 29/9/2000	DATE 5/10/2000		

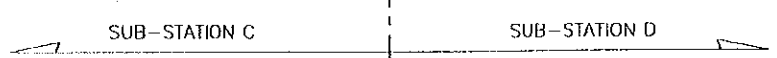


CABLE RACK W=1000 W/SEP
22kv XLPE/SWA/PVC 185sq-3C

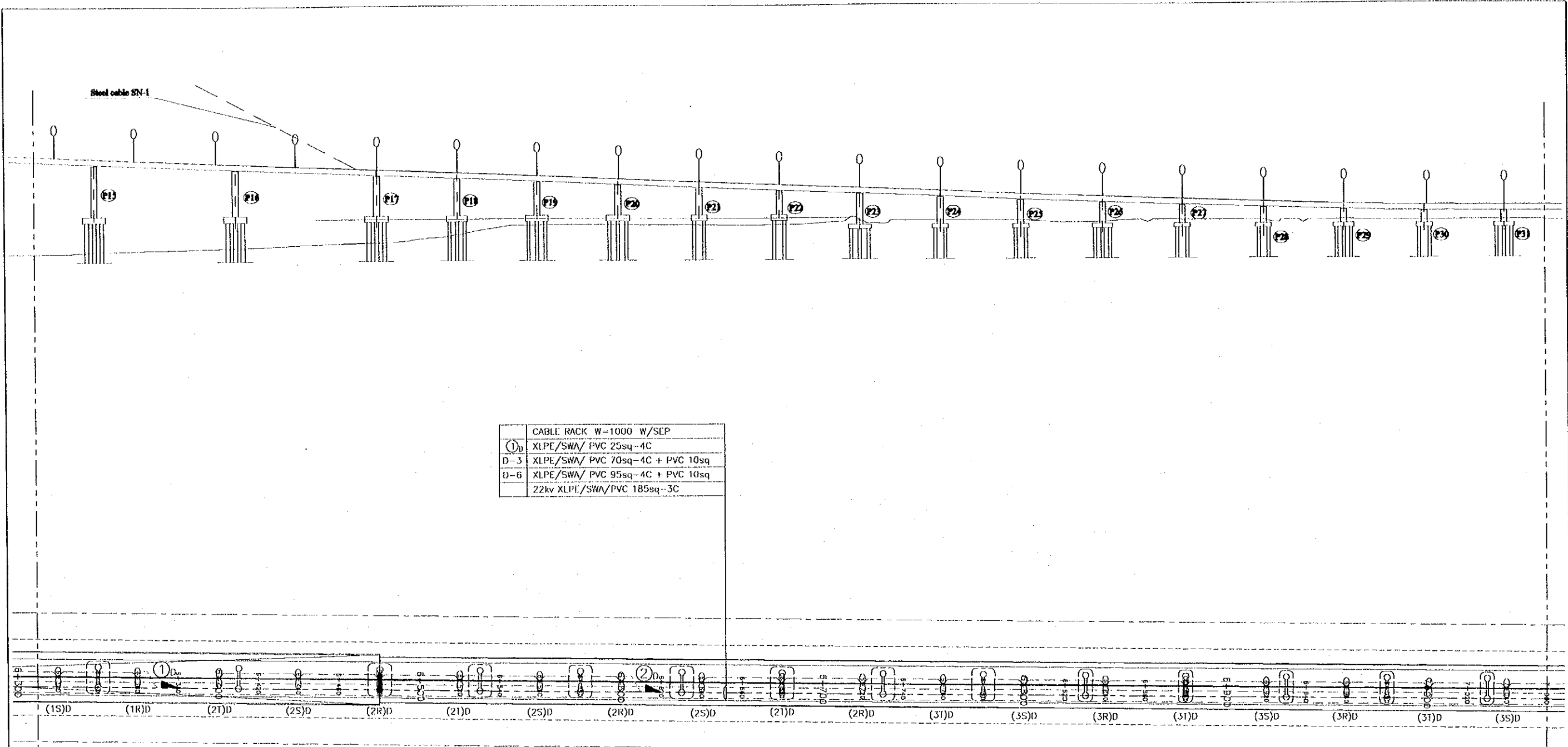
CABLE RACK W=1000 W/SEP
D-5 XLPE/SWA/ PVC 70sq-4C + PVC 10sq
D-6 XLPE/SWA/ PVC 95sq-4C + PVC 10sq
22kv XLPE/SWA/PVC 185sq-3C



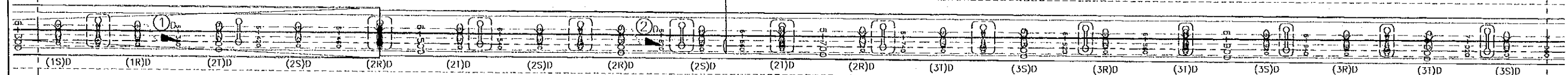
- Note:
- 22KV XLPE/SWA/PVC 185sq-3C
  - - - Under Ground Cable
  - - - GIP Conduit Pipe
  - - - SPARE Conduit (For Future)
  - ○ ○ Un Armoured Cable (GIP Conduit)
  - ○ ○ Armoured Cable (Under Ground)
  - Cable Rack (w/sep)
  - Road Lighting (Single Arm)
  - ○ Road Lighting (Double Arm)
  - △ Flood Lighting
  - Ceiling Lighting
  - Foundation (For Future)
  - ⊗<sup>A</sup> MAN HOLE 1500x1500x1500<sup>D</sup>
  - ⊗<sup>B</sup> MAN HOLE 2700x2700x1500<sup>D</sup>
  - ⊗<sup>C</sup> MAN HOLE 3700x3700x1500<sup>D</sup>
  - ⊗<sup>D</sup> MAN HOLE 1000x1000x1000<sup>D</sup>



PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOKI CO.,LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS ROAD LIGHTING LAYOUT (2)	P2/CS/5180
				DATE: 20/9/2000	DATE: 29/9/2000	DATE: 5/10/2000		



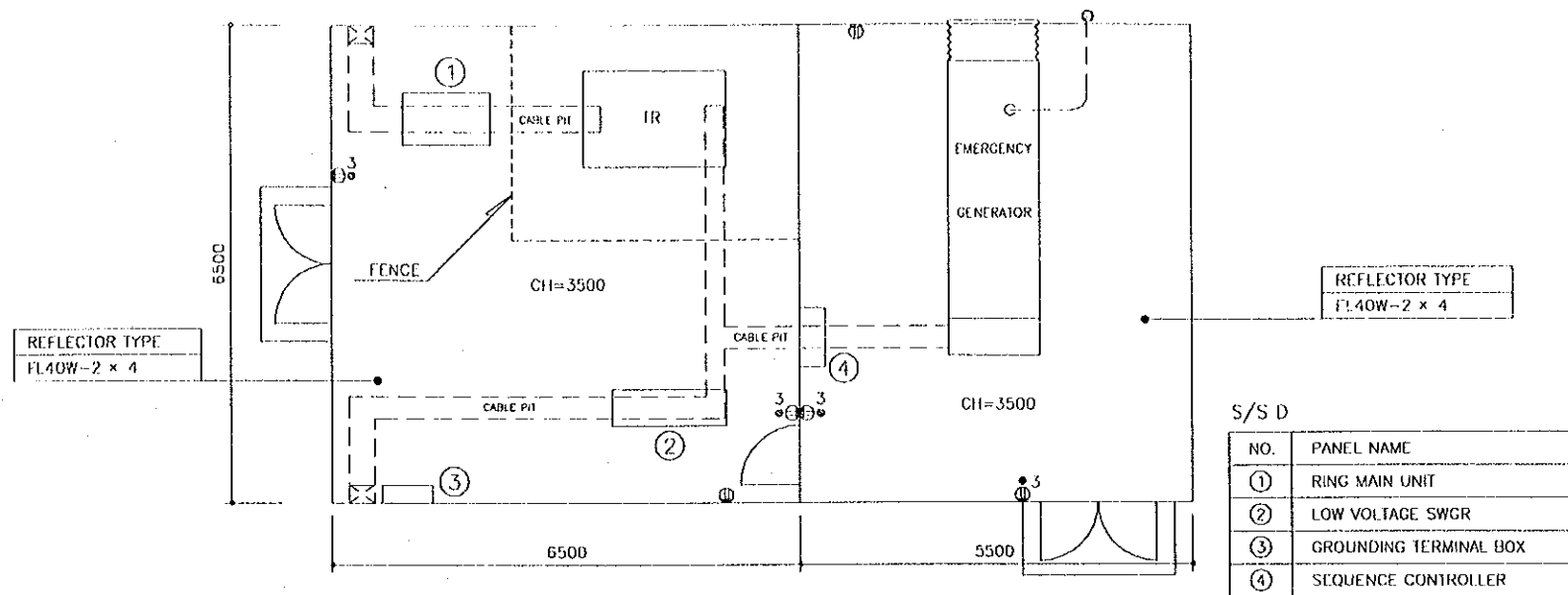
	CABLE RACK W=1000 W/SEP
①D	XLPE/SWA/ PVC 25sq-4C
D-3	XLPE/SWA/ PVC 70sq-4C + PVC 10sq
D-6	XLPE/SWA/ PVC 95sq-4C + PVC 10sq
	22kv XLPE/SWA/PVC 185sq-3C



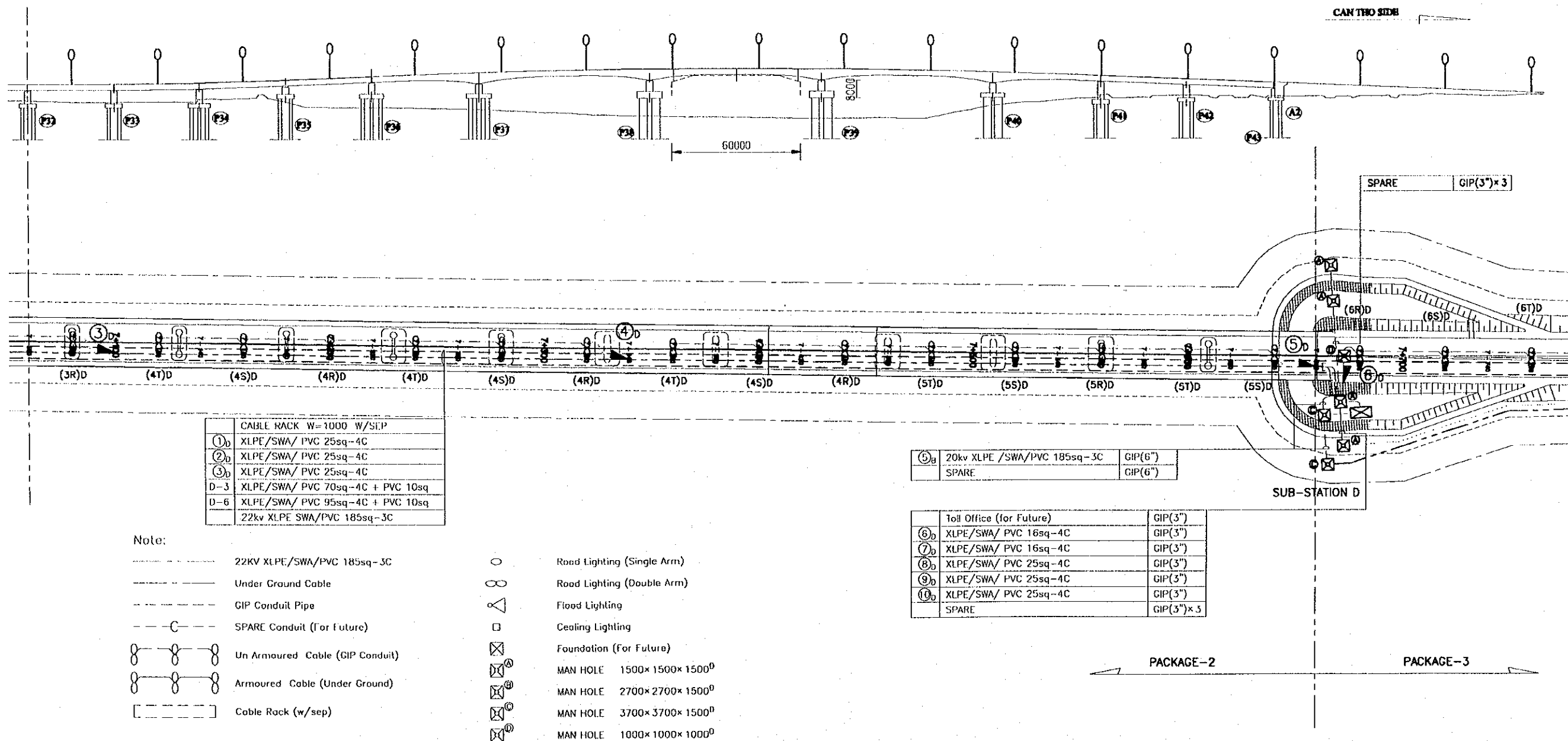
Note:

- |         |                                 |                   |                                      |
|---------|---------------------------------|-------------------|--------------------------------------|
| -----   | 22KV XLPE/SWA/PVC 185sq-3C      | ○                 | Road Lighting (Single Arm)           |
| -----   | Under Ground Cable              | ○                 | Road Lighting (Double Arm)           |
| -----   | GIP Conduit Pipe                | △                 | Flood Lighting                       |
| ---C--- | SPARE Conduit (For Future)      | □                 | Ceiling Lighting                     |
| ○-○-○   | Un Armoured Cable (GIP Conduit) | ⊠                 | Foundation (For Future)              |
| ○-○-○   | Armoured Cable (Under Ground)   | ⊠ <sup>1500</sup> | MAN HOLE 1500×1500×1500 <sup>D</sup> |
| [-----] | Cable Rack (w/sep)              | ⊠ <sup>2700</sup> | MAN HOLE 2700×2700×1500 <sup>D</sup> |
|         |                                 | ⊠ <sup>3700</sup> | MAN HOLE 3700×3700×1500 <sup>D</sup> |
|         |                                 | ⊠ <sup>1000</sup> | MAN HOLE 1000×1000×1000 <sup>D</sup> |

PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM NIPPON KOEI CO.,LTD.	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE CABLE STAYED BRIDGE MISCELLANEOUS ROAD LIGHTING LAYOUT (3)	DWG NO. P2/CS/5190	
				NAME	S. Kiguchi	K. Matsumoto			K. Enomoto
				SIGNATURE	<i>S. Kiguchi</i>	<i>K. Matsumoto</i>			<i>K. Enomoto</i>
				DATE	20/9/2000	29/9/2000			5/10/2000

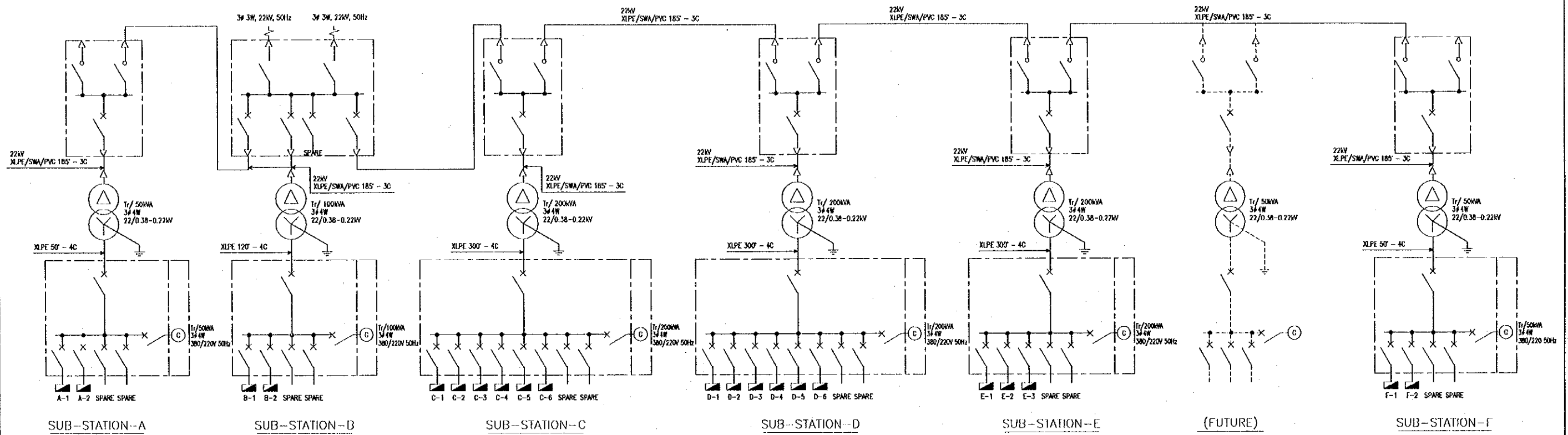


S/S D LAYOUT PLAN



PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS ROAD LIGHTING LAYOUT (4)	P2/CS/5200
				S. Kiguchi	K. Matsumoto	K. Enomoto		
				20/9/2000	29/9/2000	5/10/2000		

# SINGLE LINE DIAGRAM

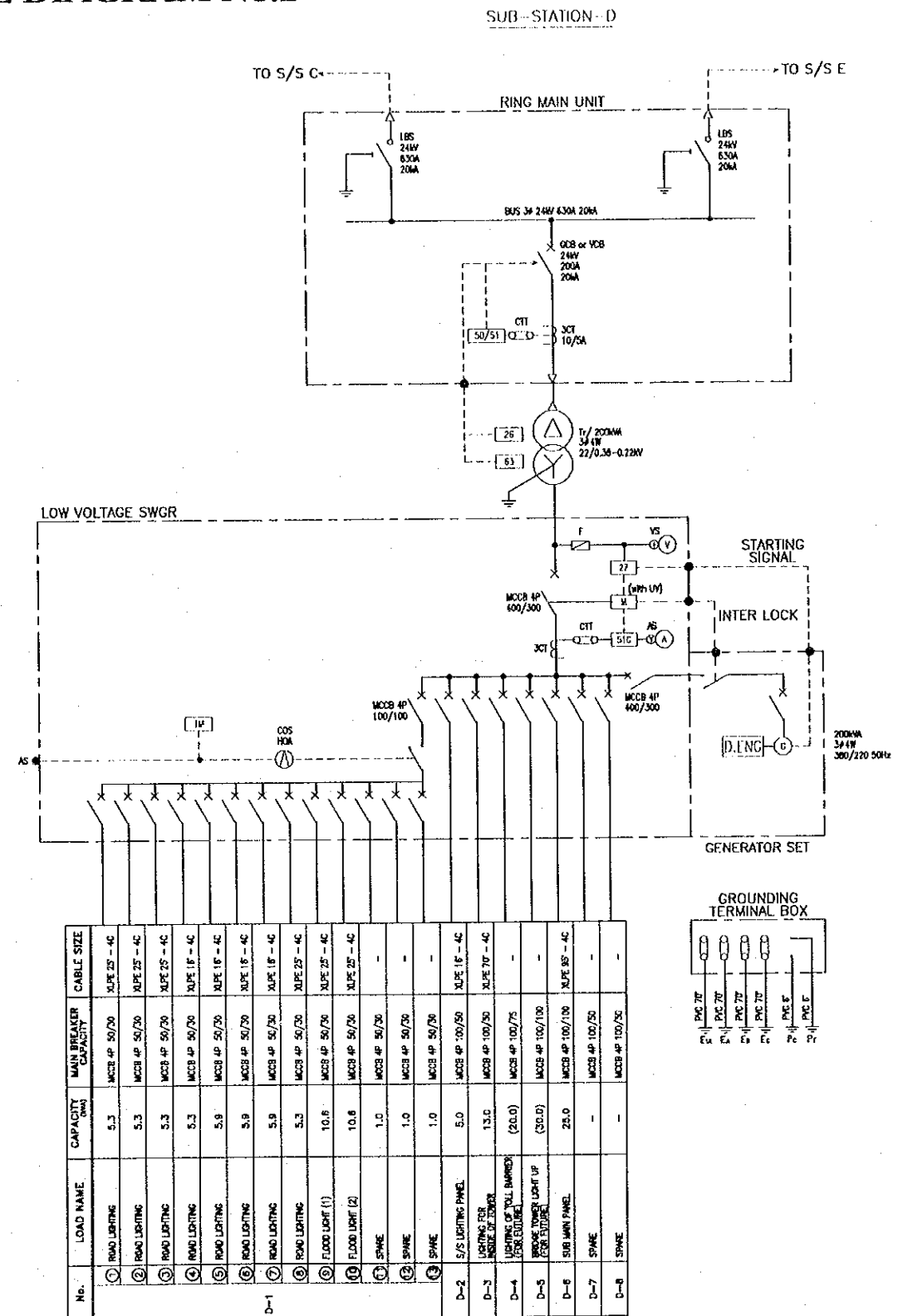
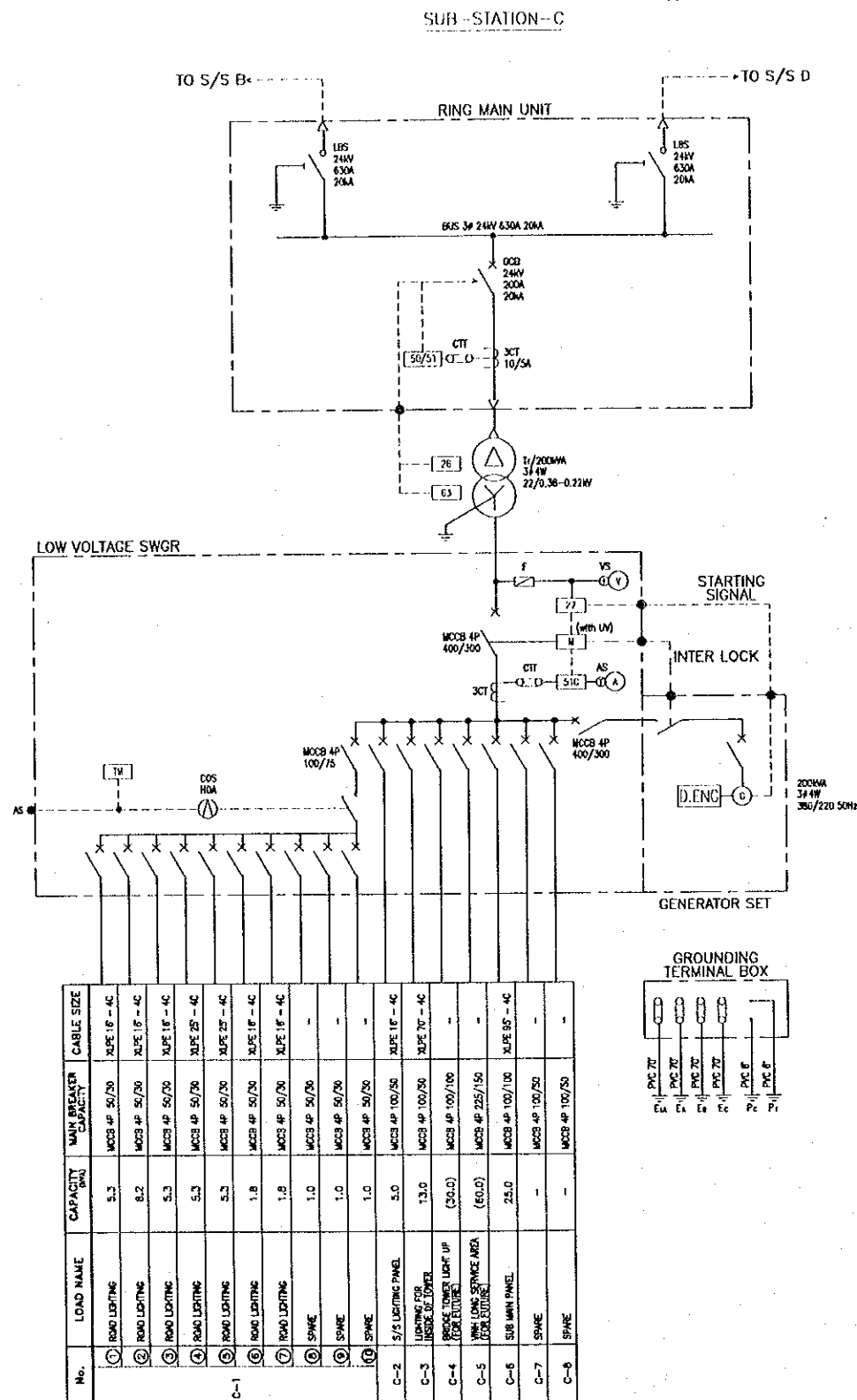


### LEGEND :

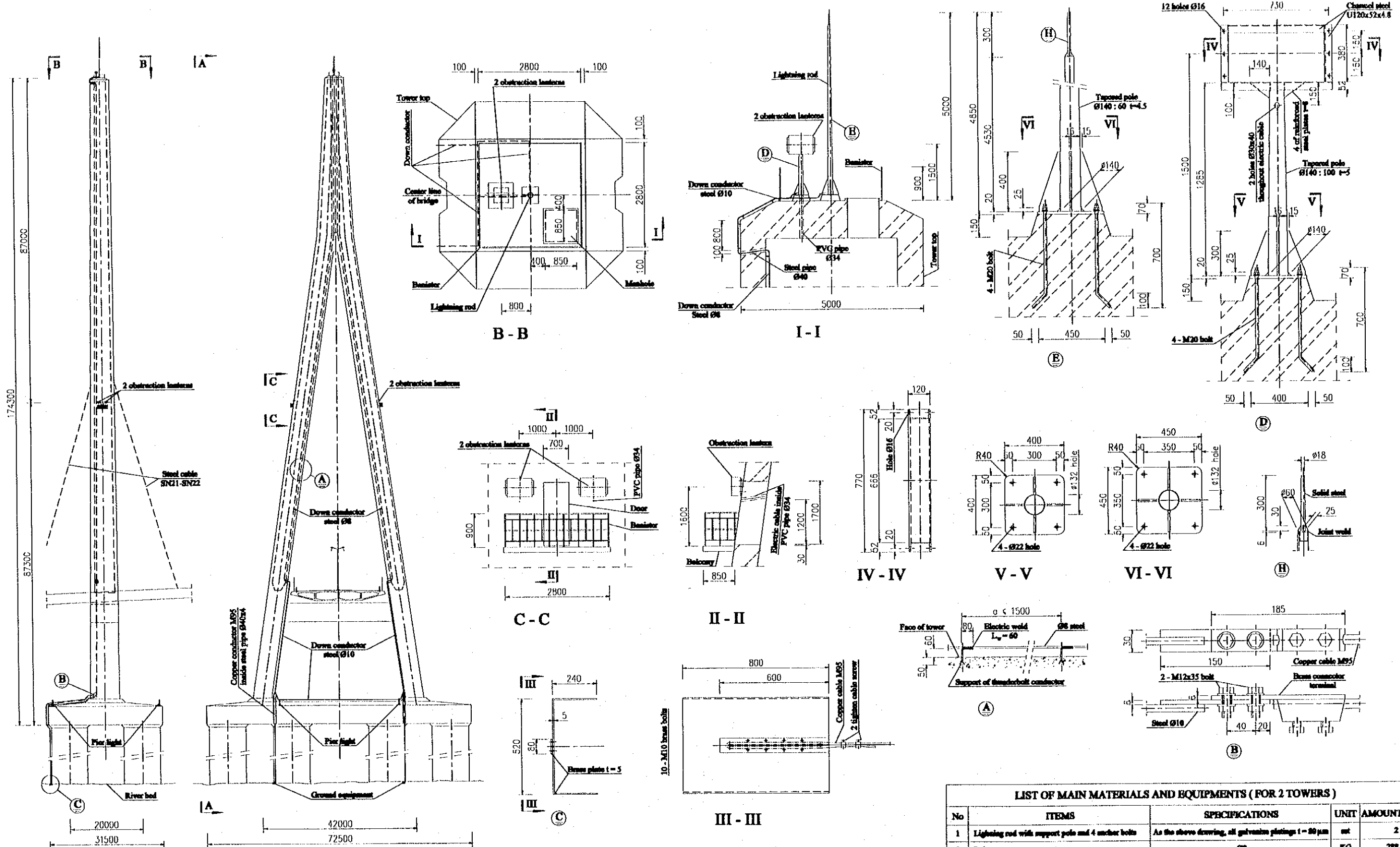
- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li> CIRCUIT BREAKER</li> <li> CABLE CONNECTION</li> <li> OIL TRANSFORMER</li> <li> DISCONNECTING SWITCH</li> <li> AC LOAD BREAK SWITCH</li> <li> GENERATOR</li> <li> DISTRIBUTION BOARD</li> </ul> | <ul style="list-style-type: none"> <li> PHOTO SWITCH</li> <li> TIMER (24HOUR)</li> <li> UNDER VOLTAGE RELAY</li> <li> MOTOR OPERATION UNIT(W/UNDER VOLTAGE)</li> <li> GROUND OVER CURRENT RELAY</li> <li> THERMAL RELAY</li> <li> PRESSURE OF VACUUM RELAY</li> <li> OVER CURRENT RELAY</li> </ul> |
|--|--|

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KORI CO.,LTD.	NAME: S. Kiguchi SIGNATURE: <i>S. Kiguchi</i> DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE: <i>K. Matsumoto</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	CABLE STAYED BRIDGE MISCELLANEOUS POWER RECEIVING SYSTEM	F2CS/5210

# DISTRIBUTION PANEL DIAGRAM No.2



PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY <b>JICA</b> JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM NIPPON KOEI CO.,LTD.	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE CABLE STAYED BRIDGE MISCELLANEOUS DETAIL OF POWER RECEIVING SYSTEM	DWG NO. P2/CS/5220	
				NAME	S. Kiguchi	K. Matsumoto			K. Enomoto
				SIGNATURE					
DATE	20/9/2000	29/9/2000	5/10/2000						



**FRONT ELEVATION SOUTHERN TOWER**

**NOTICE : THIS DRAWING IS ONLY FOR TENDER DOCUMENTS**  
 - This tower drawing is for Vinh Long side, Can Tho side is similar but handed  
 - All metal of structures for each floor of tower must be welded with ground wire system by round steel Ø8 or copper wire M25

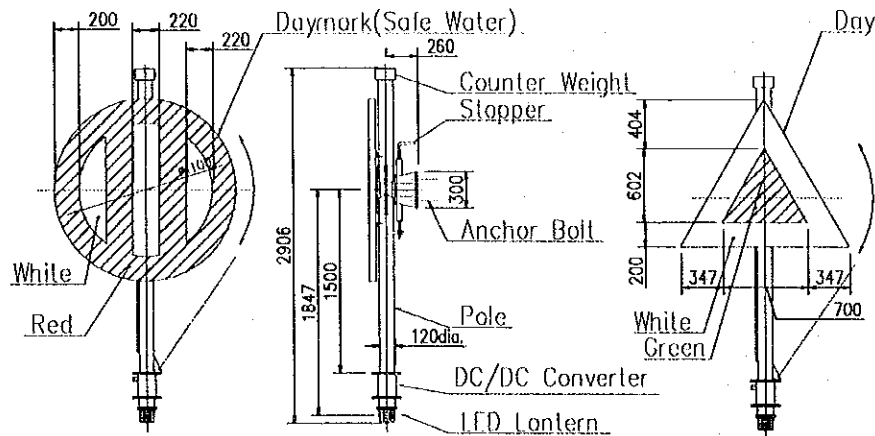
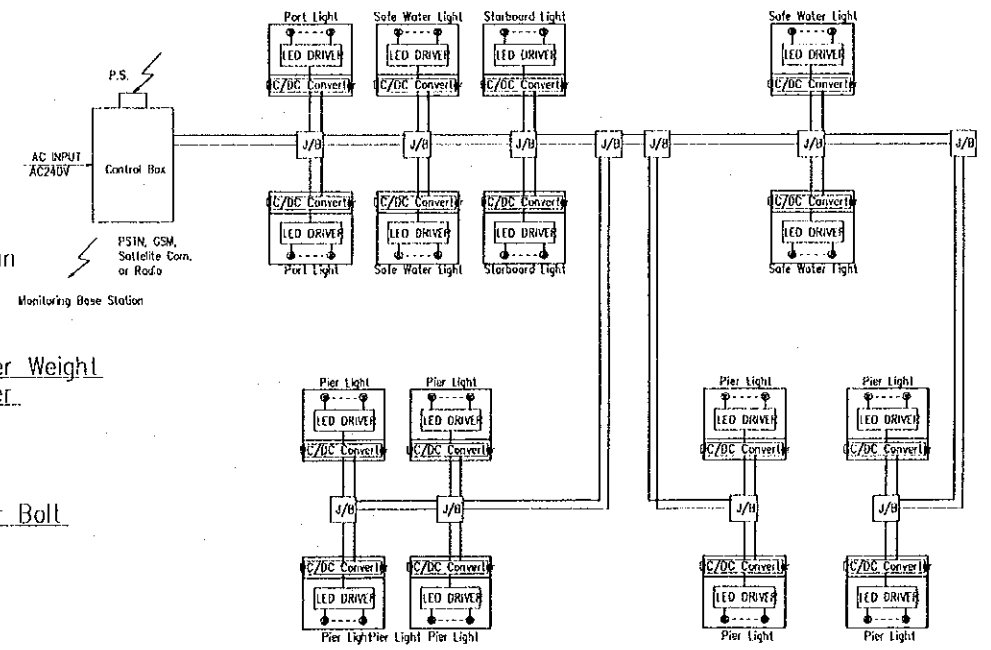
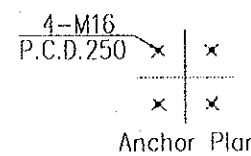
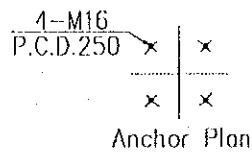
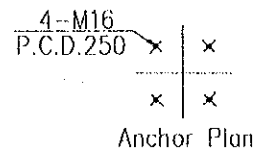
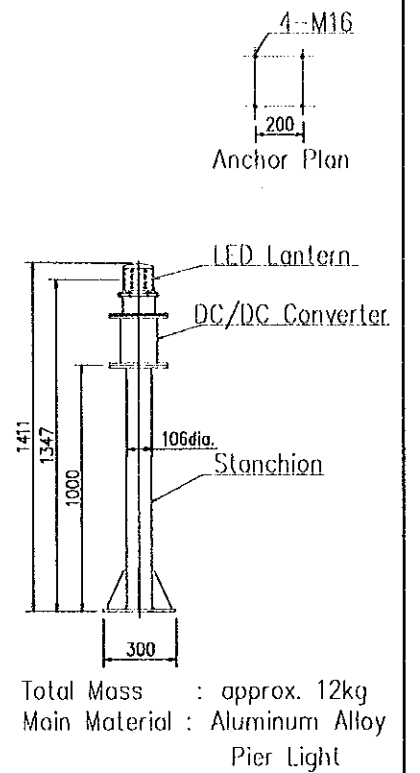
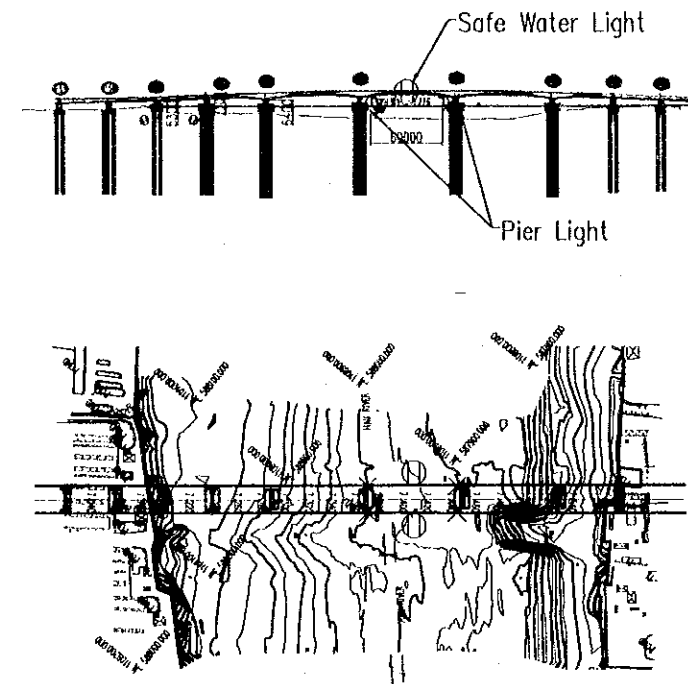
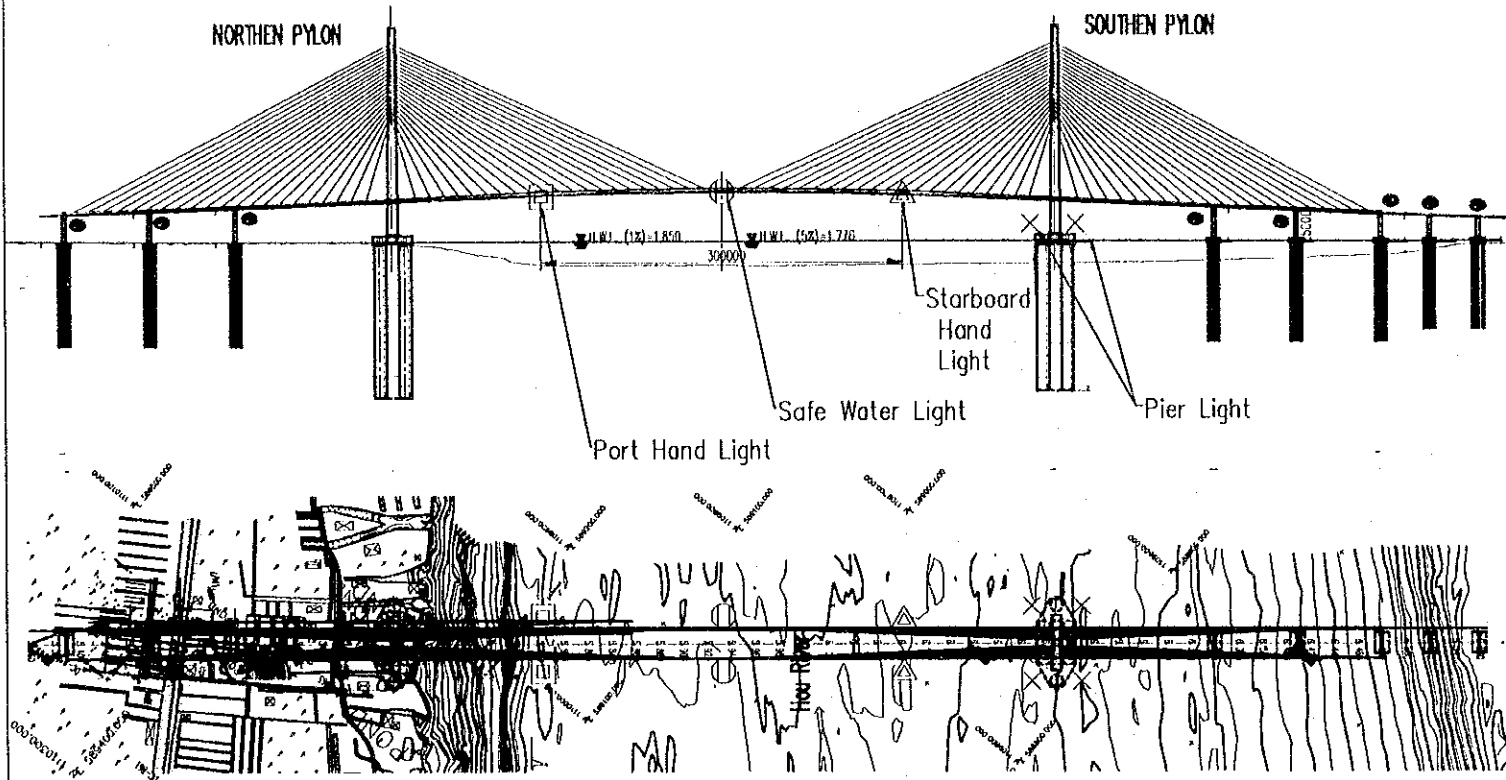
LIST OF MAIN MATERIALS AND EQUIPMENTS ( FOR 2 TOWERS )				
No	ITEMS	SPECIFICATIONS	UNIT	AMOUNT
1	Lightning rod with support pole and 4 anchor bolts	As the above drawing, all galvanize platings t = 80 µm	set	2
2	Rebar	Ø8	KG	288
3	Rebar	Ø10 - A1	KG	170
4	Down copper stranded conductor ( without cover )	M95	KG	116
5	Steel pipe galvanize platings	Ø40x4	m	80
6	Ground equipment	As the above drawing	set	2
7	Obstruction lantern	FX-75-200K-1A4 700VA- 220V	set	12
8	Support pole for obstruction lantern and anchor bolts	As the above drawing, all galvanize platings t = 80 µm	set	2
9	PVC pipe	Ø34x2.1	m	9

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT ( MOT ) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS OBSTRUCTION LIGHTING AND LIGHTNING RODS	P2/CS/5230
				DATE: 20/9/2000	DATE: 29/9/2000	DATE: 5/10/2000		



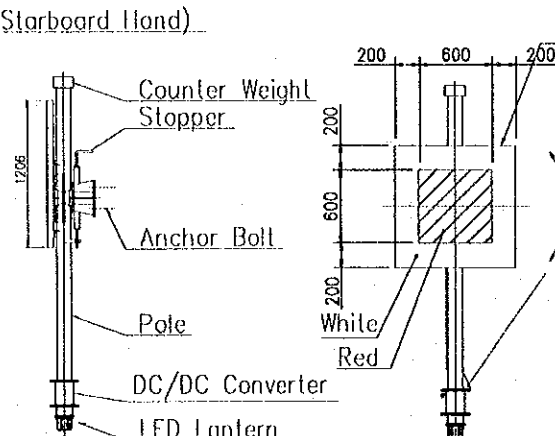
# PLANNING POSITION

(Bridge Light)



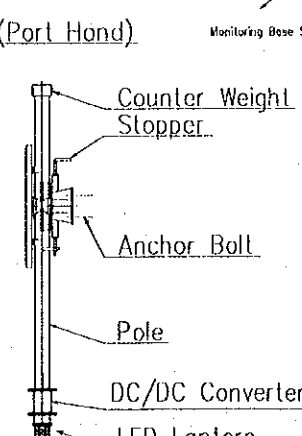
Total Mass : approx. 85kg  
Main Material : Aluminum Alloy

BRIDGE LIGHT  
(Safe Water)



Total Mass : approx. 85kg  
Main Material : Aluminum Alloy

BRIDGE LIGHT  
(Starboard Hand)



Total Mass : approx. 85kg  
Main Material : Aluminum Alloy

BRIDGE LIGHT  
(PORT HAND)

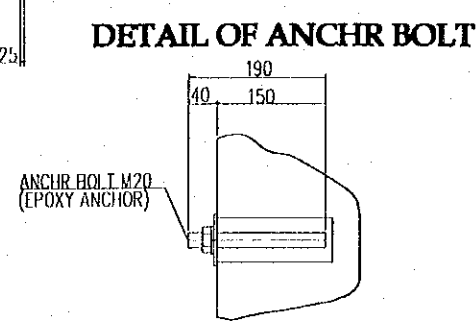
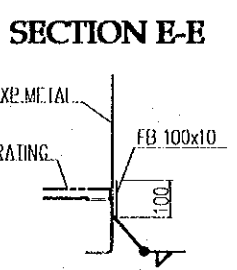
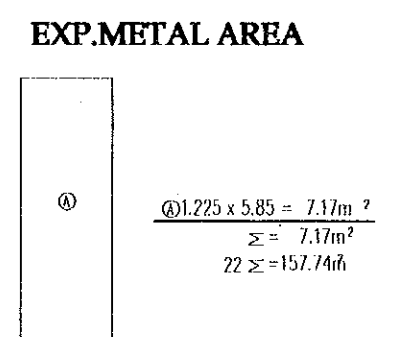
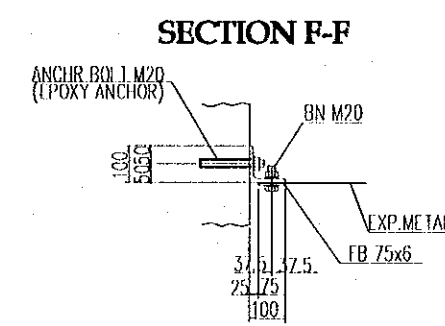
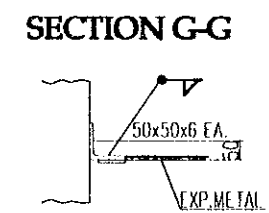
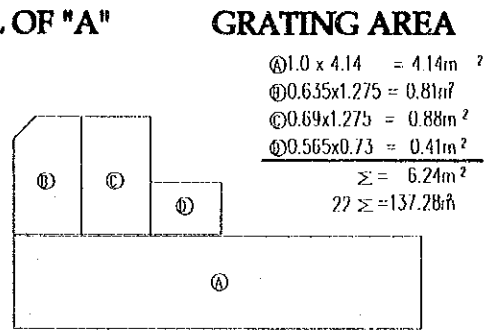
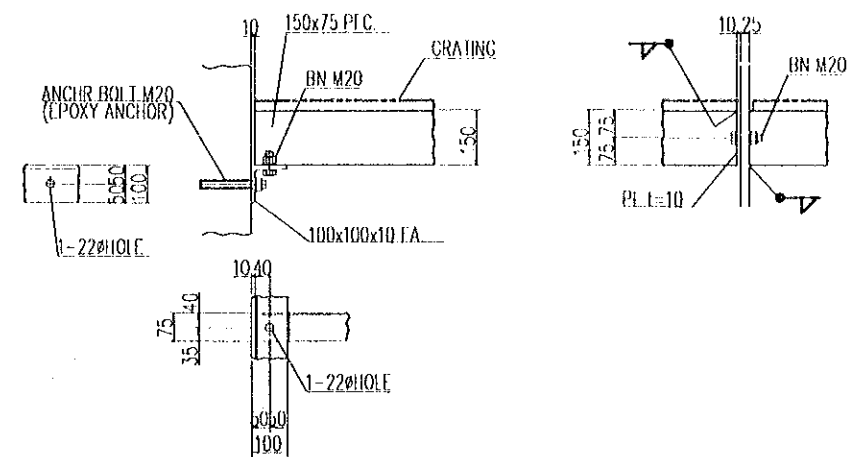
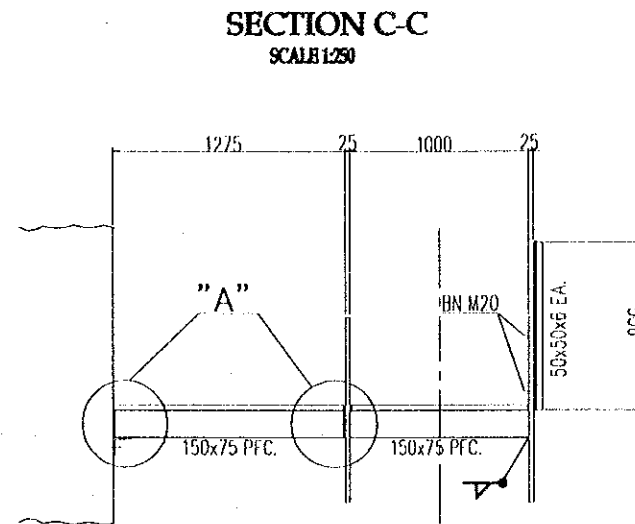
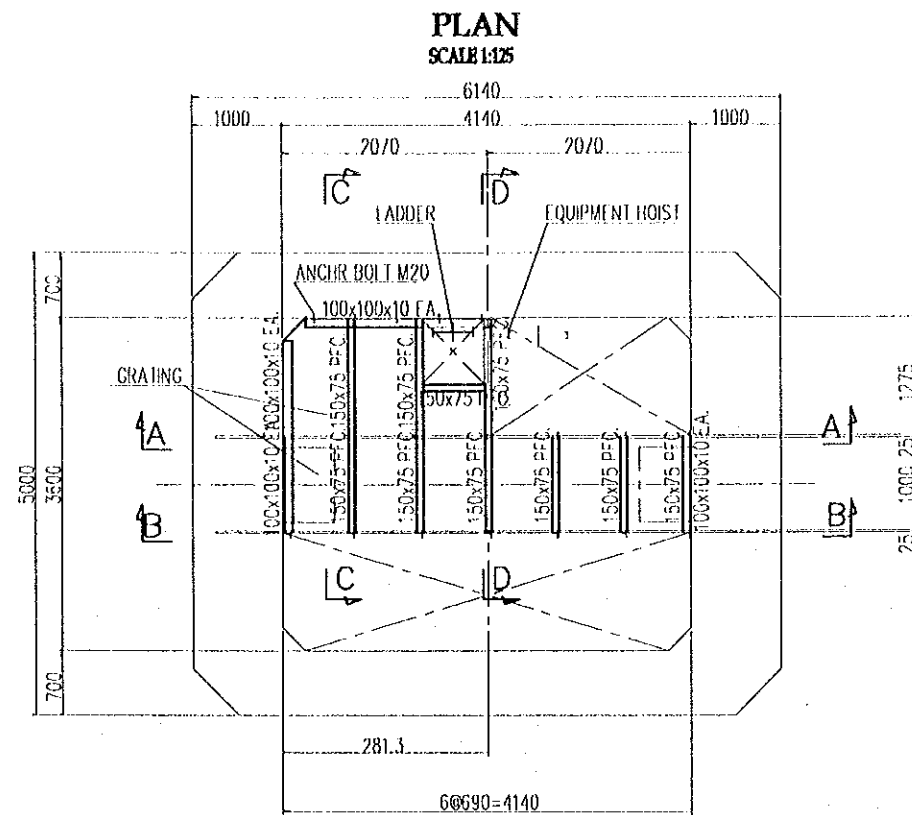
REMARKS  
 — Power Line  
 — Signal Line (Optical Fiber Cable)  
 P.S. : PHOTO SENSOR  
 J/B : JUNCTION BOX

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO., LTD.	NAME: S. Kiguchi SIGNATURE: <i>S. Kiguchi</i> DATE: 20/9/2000	K. Matsumoto <i>K. Matsumoto</i> 29/9/2000	K. Enomoto <i>K. Enomoto</i> 5/10/2000	CABLE STAYED BRIDGE MISCELLANEOUS PERMANENT NAVIGATIONAL BRIDGE LIGHT AND MARKER BUOYS SYSTEM	P2/CS/S240

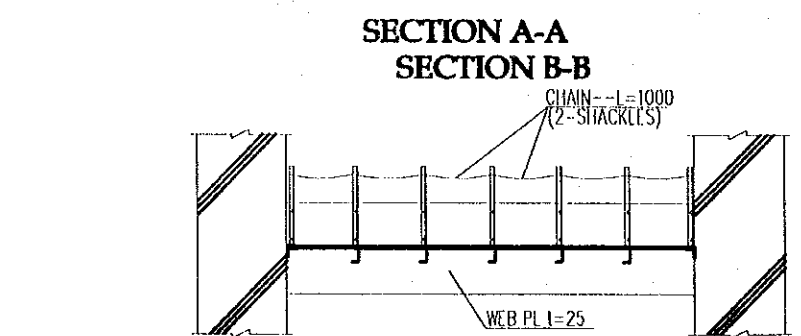
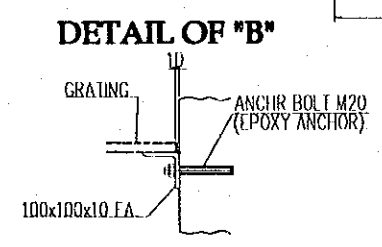
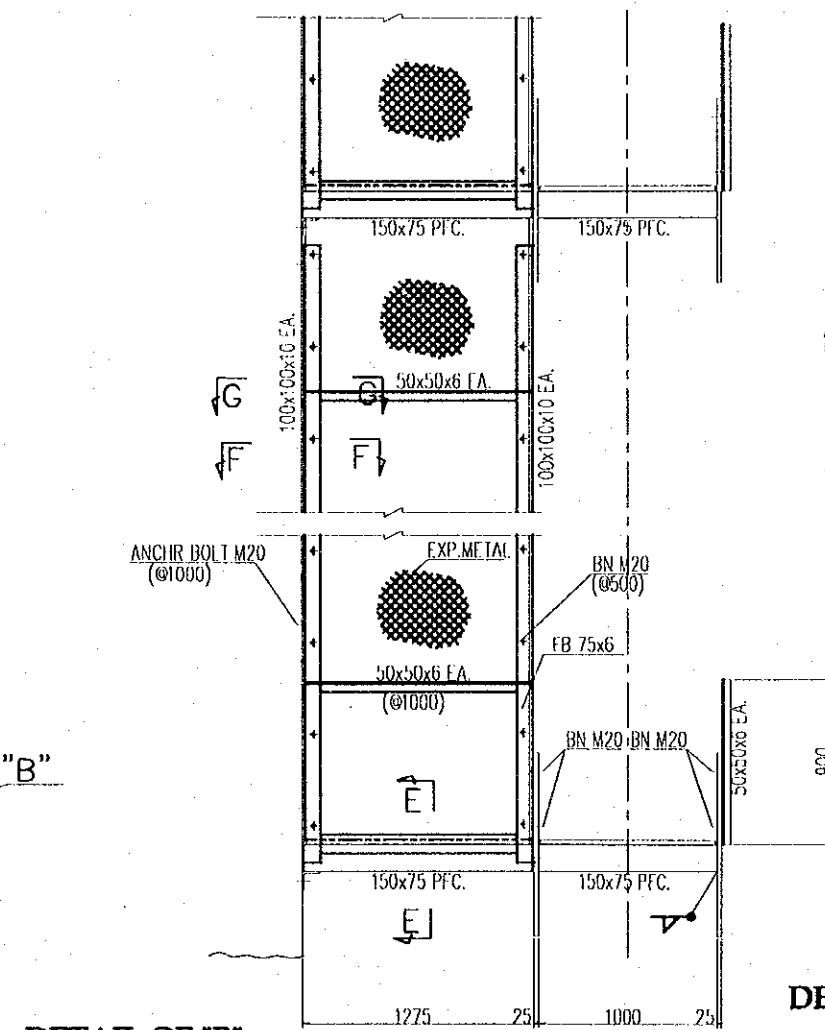
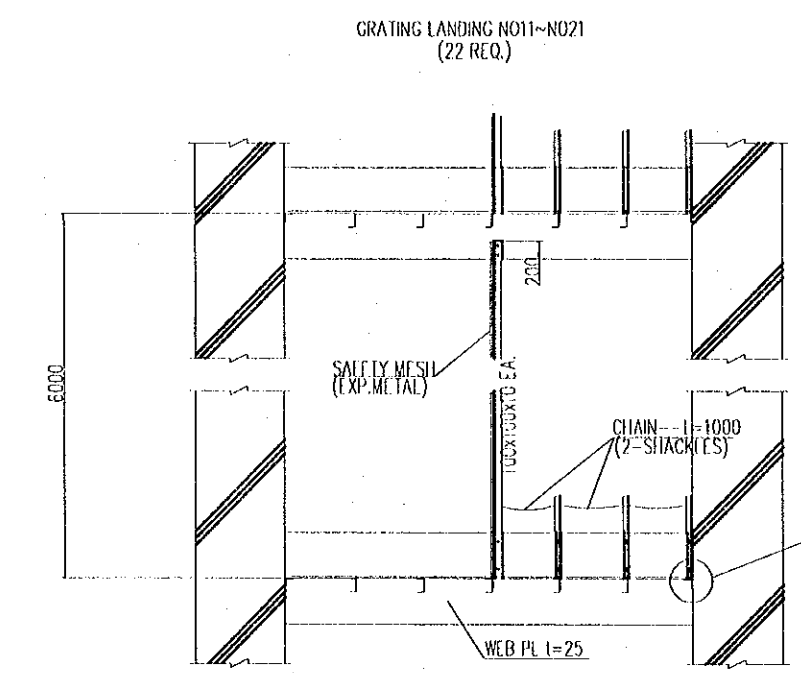




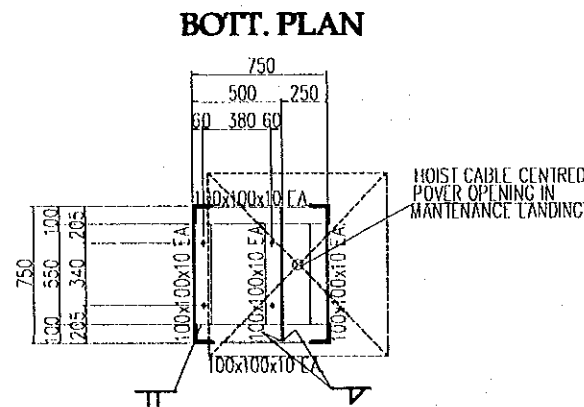
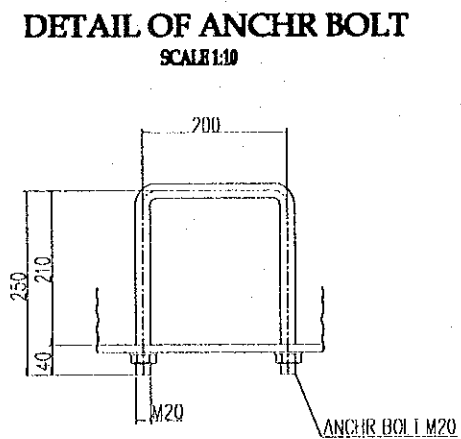
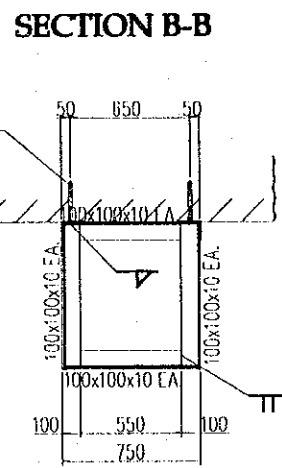
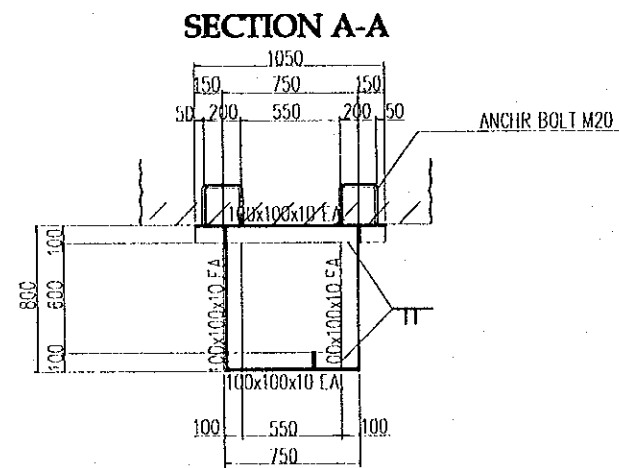
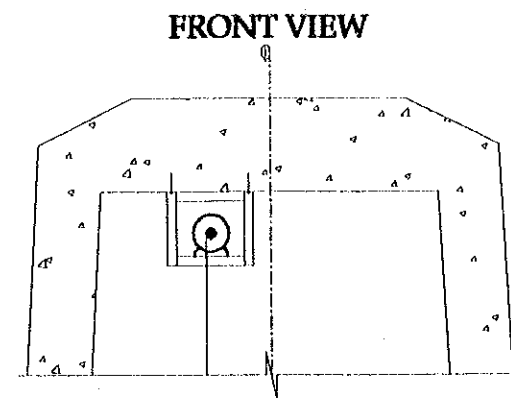
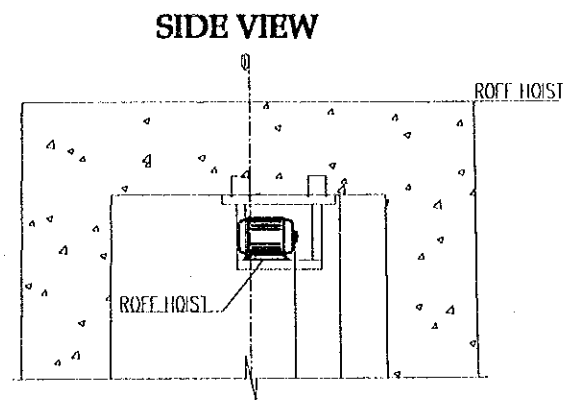
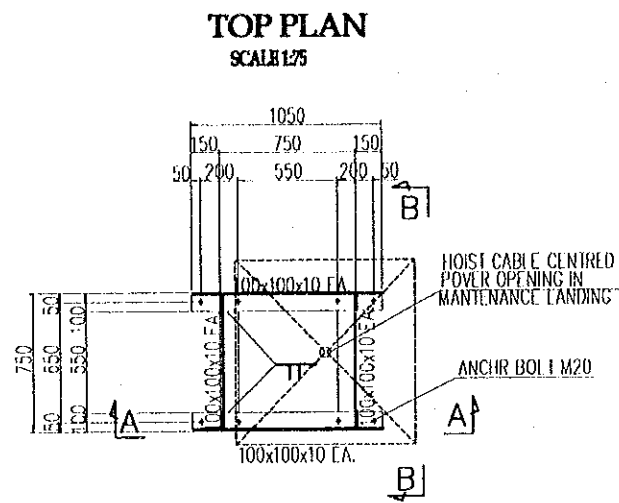




- GRATING LANDING (22 REQ.)  
(2-W)  
9-CHAIN #8(S11) L=1000(SS400)  
18-SHACKLE SC8 (SS400)  
(2-W)  
(2-W) (2-W)  
(2-W)  
14-A.BOLT M20 x 190(SS400)  
14-WASHER M20 (SS400)



PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO., LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS DETAIL OF LADDER ON PYLON (4)	P2/CS/5280
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	



PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPON KORI CO., LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE MISCELLANEOUS DETAIL OF LADDER ON PYLON (5)	P2/CS/5250
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

## VII. REFERENCE

# CONSTRUCTION SEQUENCE (1)

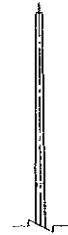
## NORTHERN PYLON

## SOUTHERN PYLON

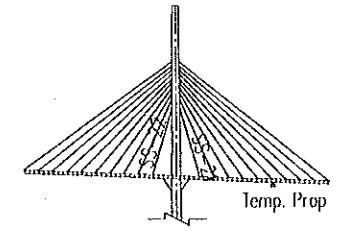
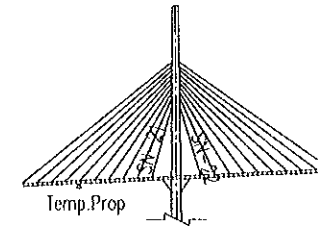
## NORTHERN PYLON

## SOUTHERN PYLON

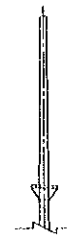
**Stage-1**  
Start Pylon Construction



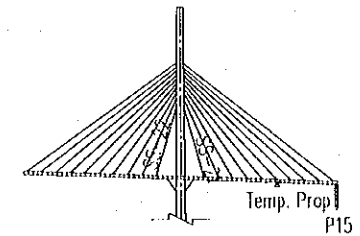
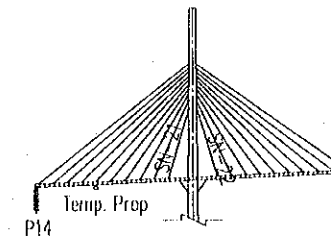
**Stage-21 to 22**  
Cantilever Erection



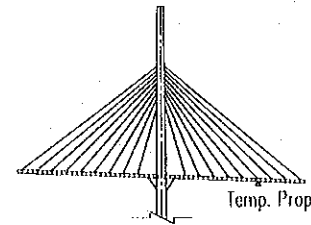
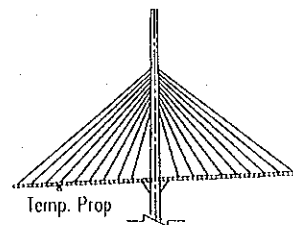
**Stage-2**  
Erect Basic Segment



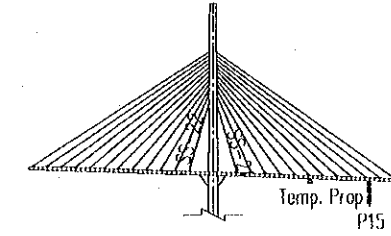
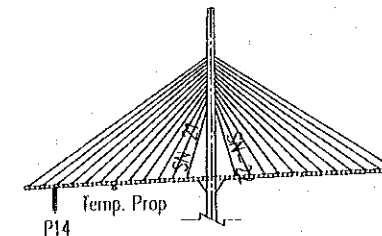
**Stage-23**  
P14, P15 Temporarily Fixed  
Install No.10 Stay Cable



**Stage-3 to 20**  
Erect Pre cast Segment  
Install No.9 Stay Cable



**Stage-24 to 28**  
Erect Pre cast Segment  
Install No.12 Stay Cable



PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	NAME	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOBI CO.,LTD.	S. Kiguchi	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE REFERENCE CONSTRUCTION SEQUENCE (1)	P2/CS/6010
				SIGNATURE	20/9/2000	29/9/2000	5/10/2000		
				DATE					



# CONSTRUCTION SEQUENCE (2)

## NORTHERN PYLON

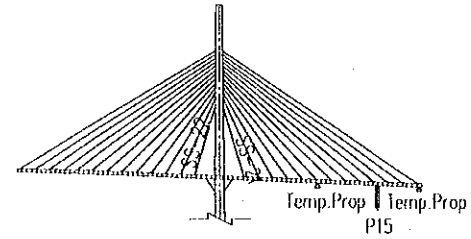
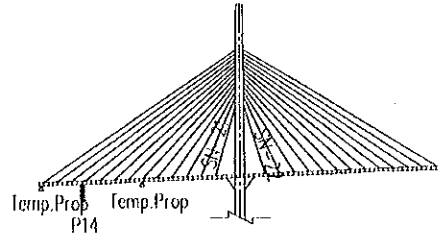
## SOUTHERN PYLON

## NORTHERN PYLON

## SOUTHERN PYLON

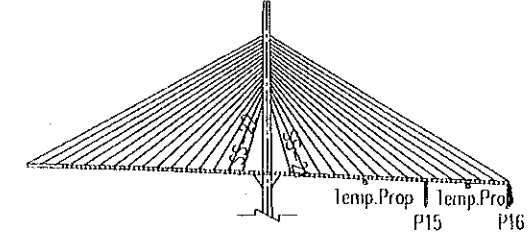
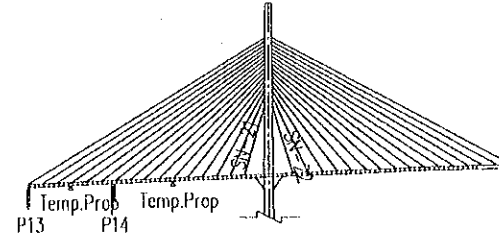
### Stage -29

Set Prop  
Install No.13 Stay Cable



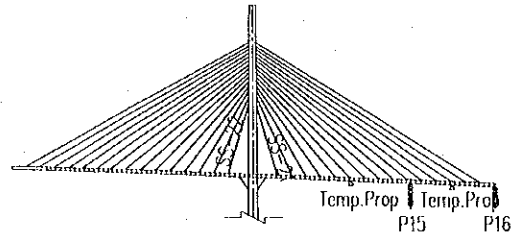
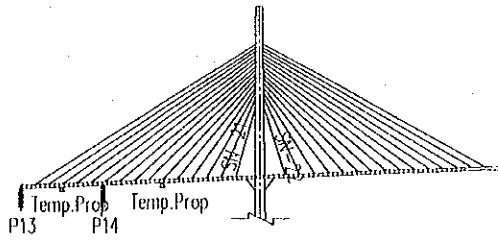
### Stage -36

Install No.16 Stay Cable



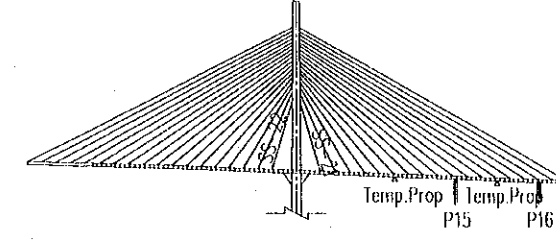
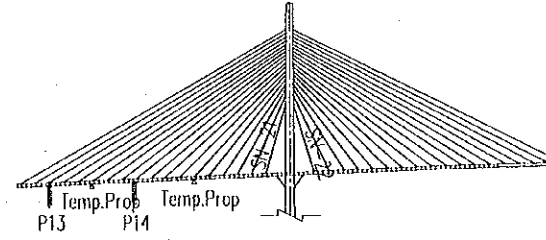
### Stage -30 to 34

Erect Precast Segment



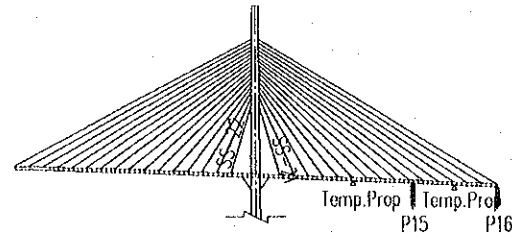
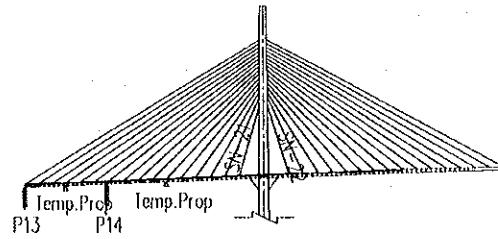
### Stage -37 to 42

Erect Precast Segment  
Install No.18 Stay Cable



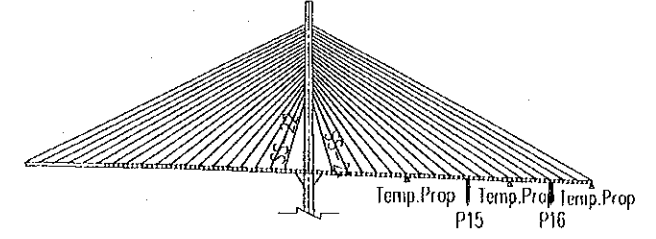
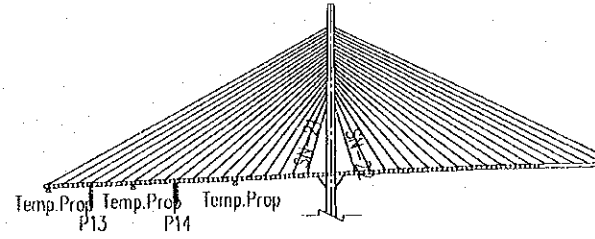
### Stage -35

P13,P16 Temporarily Fixed  
Install No.15 Stay Cable



### Stage -43

Set Prop  
Install No.19 Stay Cable



PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	<b>JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)</b>	<b>SOCIALIST REPUBLIC OF VIET NAM</b> <b>MINISTRY OF TRANSPORT (MOT)</b> <b>MY THUAN PROJECT MANAGEMENT UNIT</b>	<b>NIPPON KOEI CO.,LTD.</b>	NAME	S. Kiguchi	K. Matsumoto	<b>CABLE STAYED BRIDGE REFERENCE CONSTRUCTION SEQUENCE (2)</b>	<b>P2/CS/6020</b>
				SIGNATURE	<i>S. Kiguchi</i>	<i>K. Matsumoto</i>		
				DATE	20/9/2000	29/9/2000		

# CONSTRUCTION SEQUENCE (3)

## NORTHERN PYLON

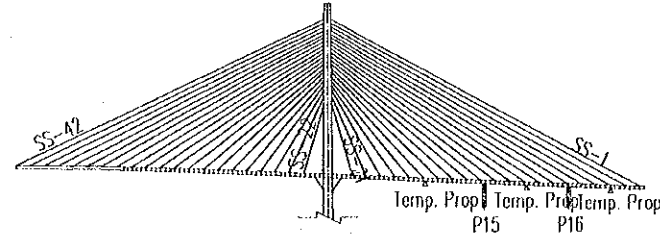
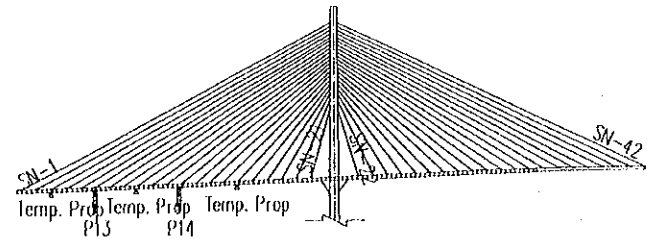
## SOUTHERN PYLON

## NORTHERN PYLON

## SOUTHERN PYLON

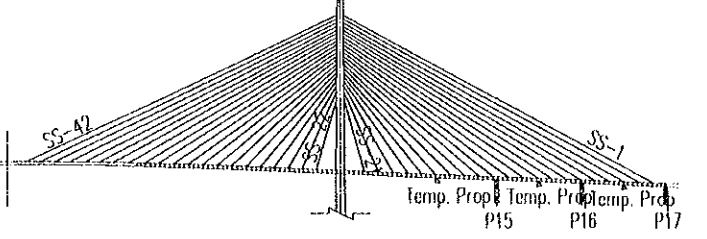
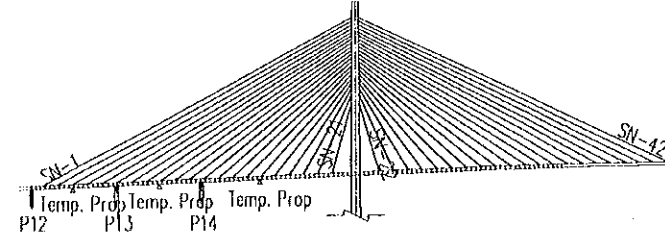
### Stage -44 to 47

Erect Pre cast Segment  
Install No.21 Stay Cable



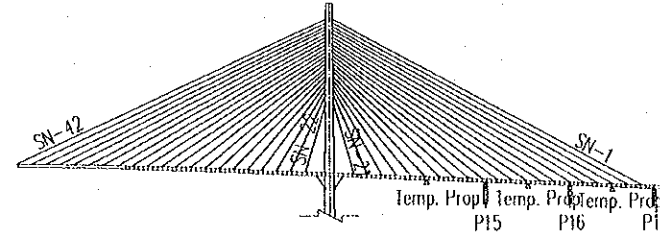
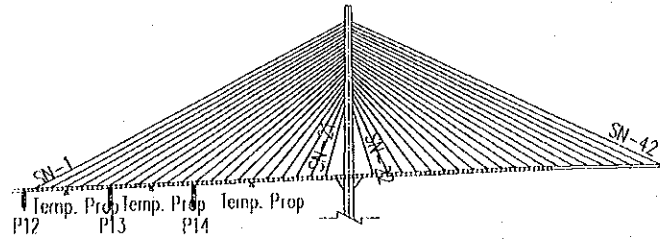
### Stage -51

Wearing Surface and Utilities



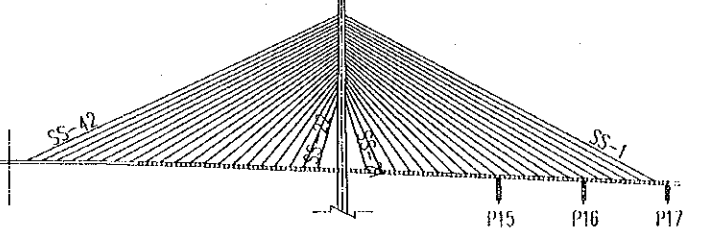
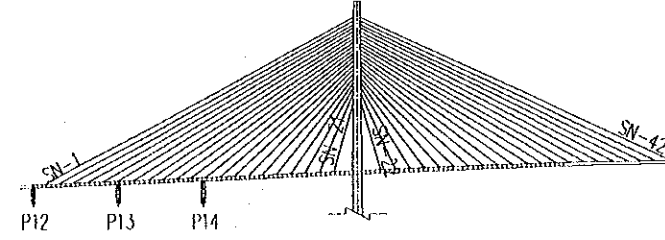
### Stage -48

Erect Closure Segment  
at Side Span



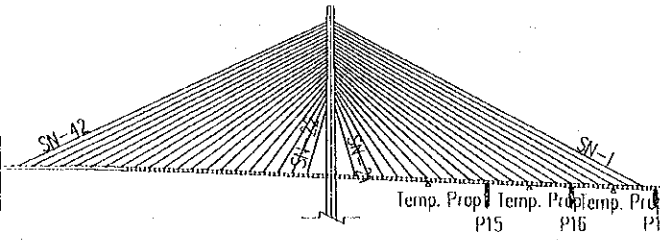
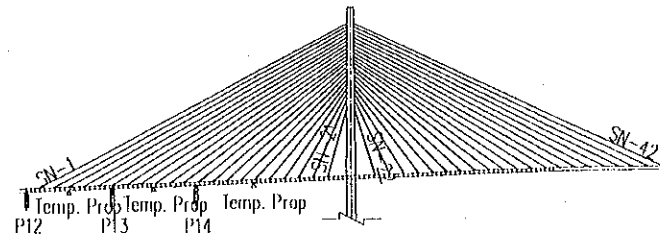
### Stage -52

Release Temporary Support  
at Pier



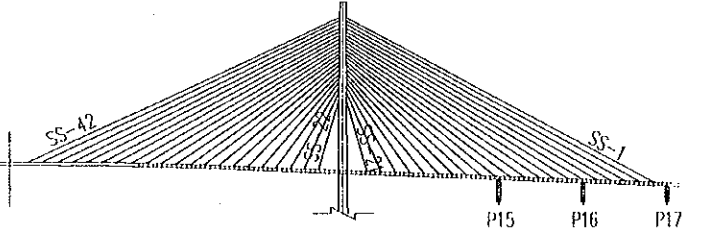
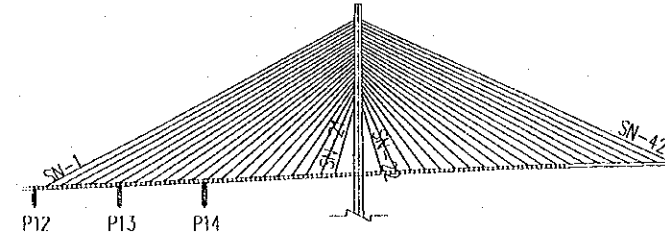
### Stage -49

Erect Closure Segment  
at Center Span



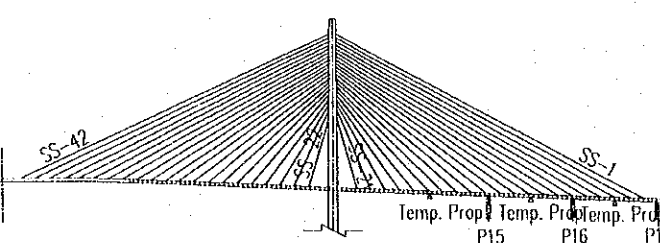
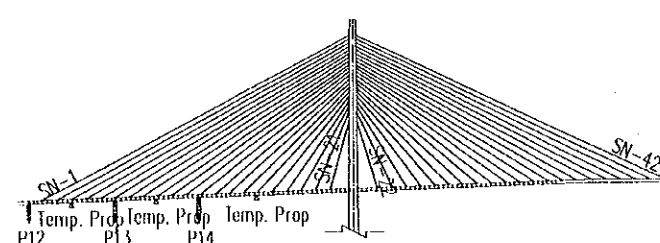
### Stage -53

Adjustment Stay Cables



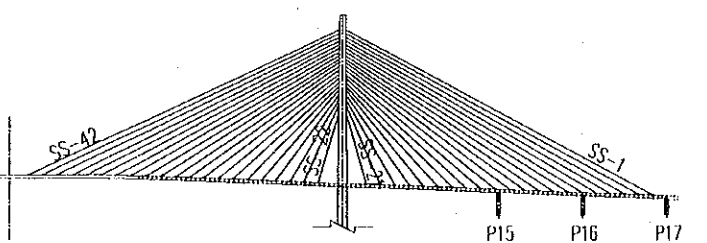
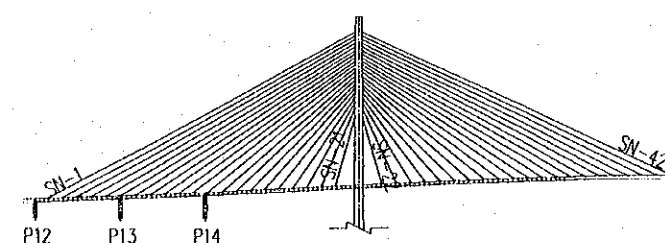
### Stage -50

Release Temporary Support  
at Pylon



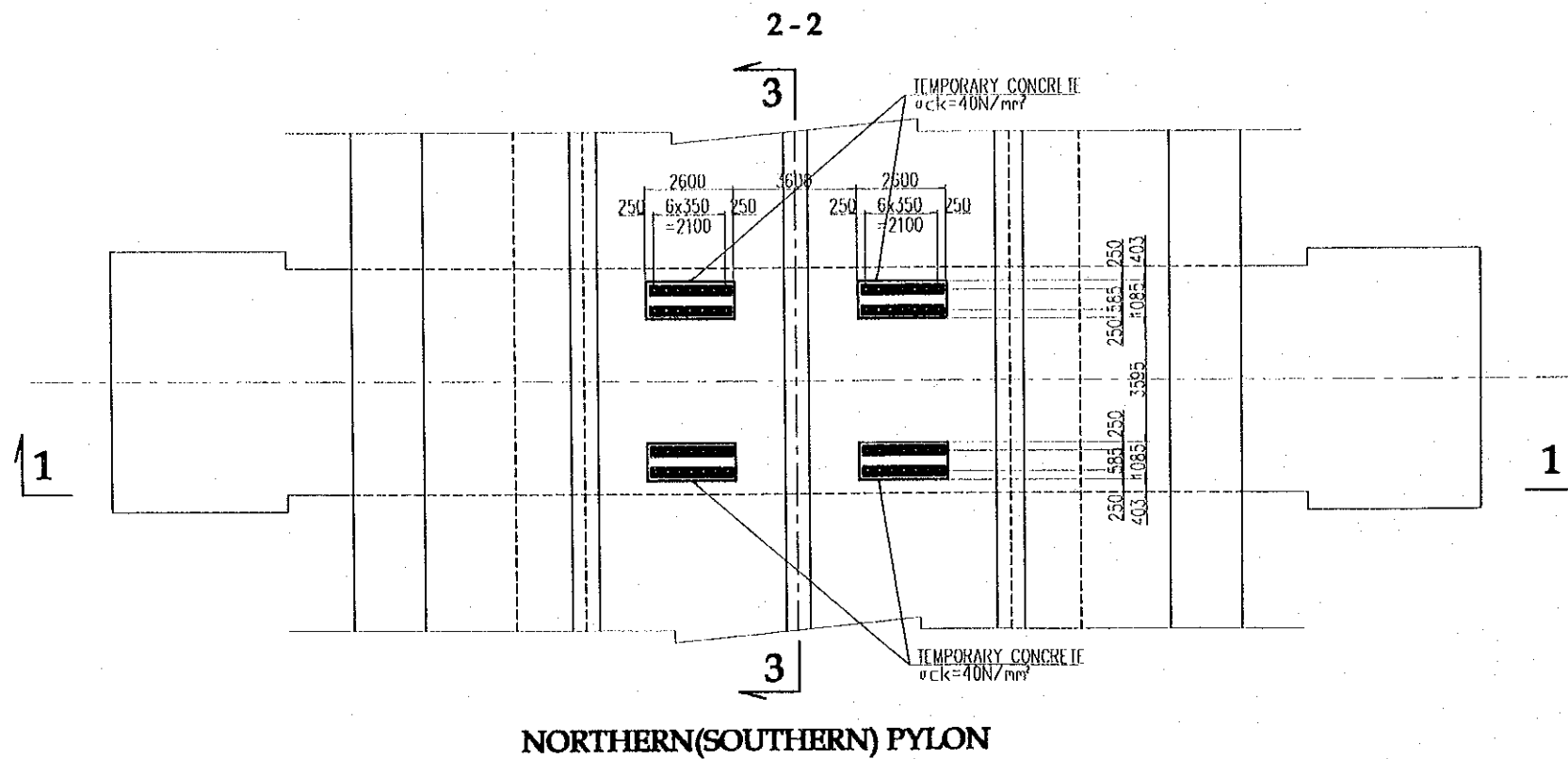
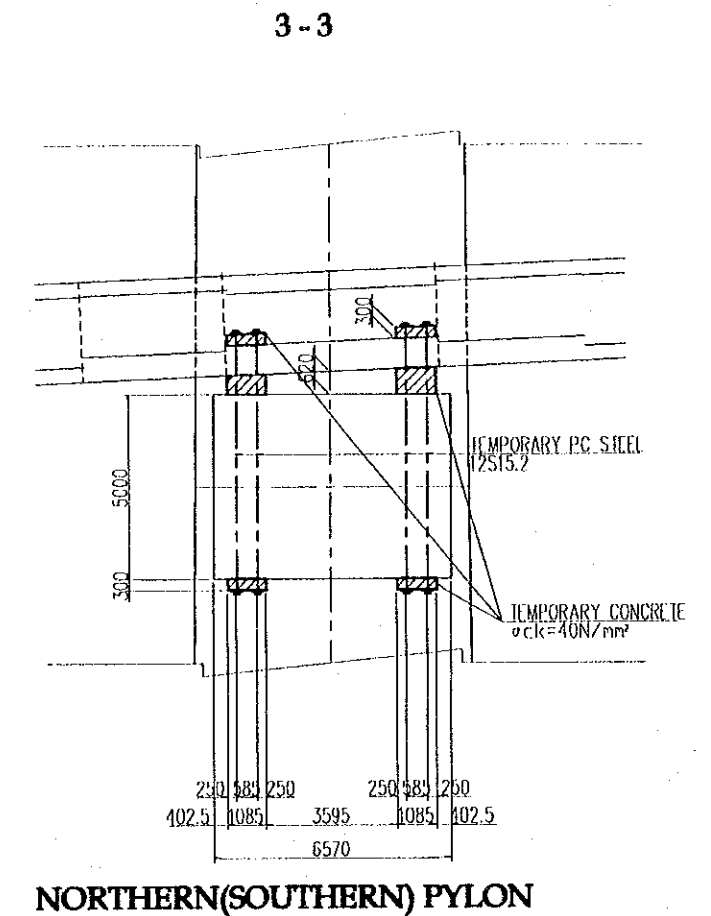
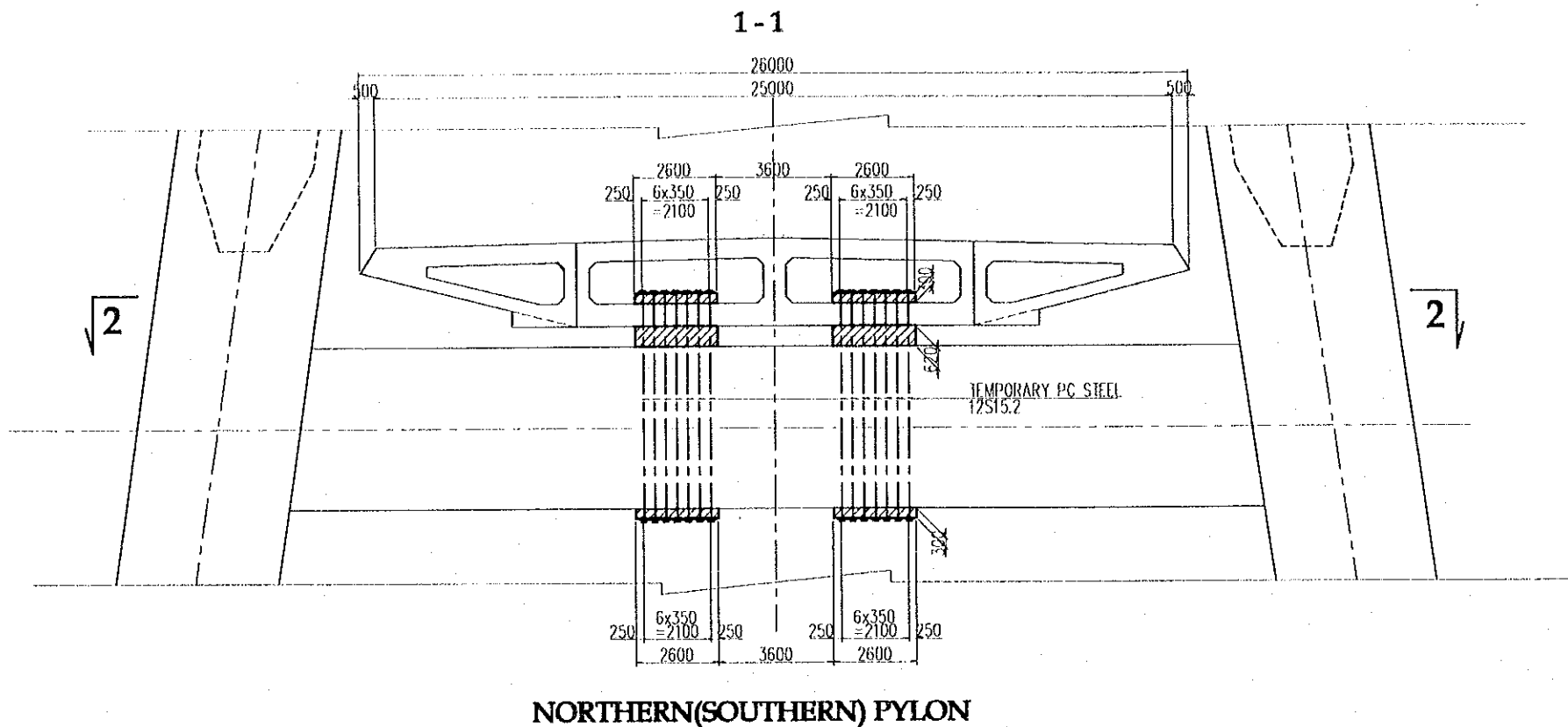
### Structural Components

Completed of the end Creep



PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	 NIPPON KOEI CO.,LTD.	NAME	S. Kiguchi	K. Matsumoto	CABLE STAYED BRIDGE REFERENCE CONSTRUCTION SEQUENCE (3)	P2/CS/6030
				SIGNATURE	<i>S. Kiguchi</i>	<i>K. Matsumoto</i>		
				DATE	20/9/2000	29/9/2000		
						K. Enomoto		
						<i>K. Enomoto</i>		
						5/10/2000		

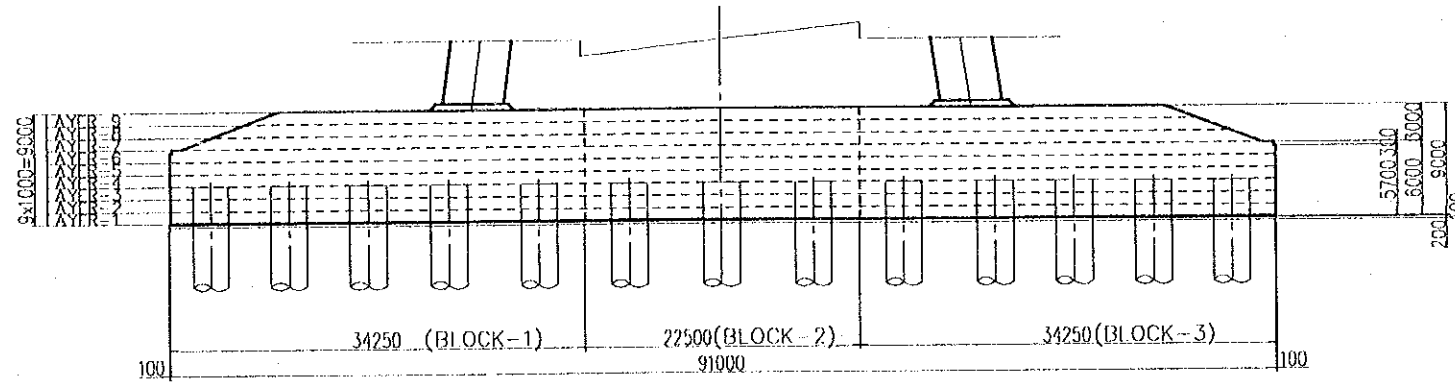
# TEMPORARY SUPPORT SCALE 1:100



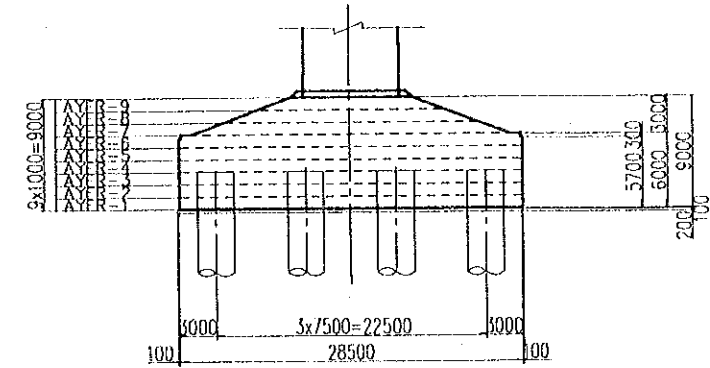
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KORI CO.,LTD.	NAME: S. Kiguchi SIGNATURE: <i>S. Kiguchi</i> DATE: 20/9/2000	K. Matsumoto <i>K. Matsumoto</i> 29/9/2000	K. Enomoto <i>K. Enomoto</i> 5/10/2000	CABLE STAYED BRIDGE REFERENCE TEMPORARY SUPPORT	PC/CS/6040

# CONCRETE PLACING STEP OF PILE CAP S= 1:600

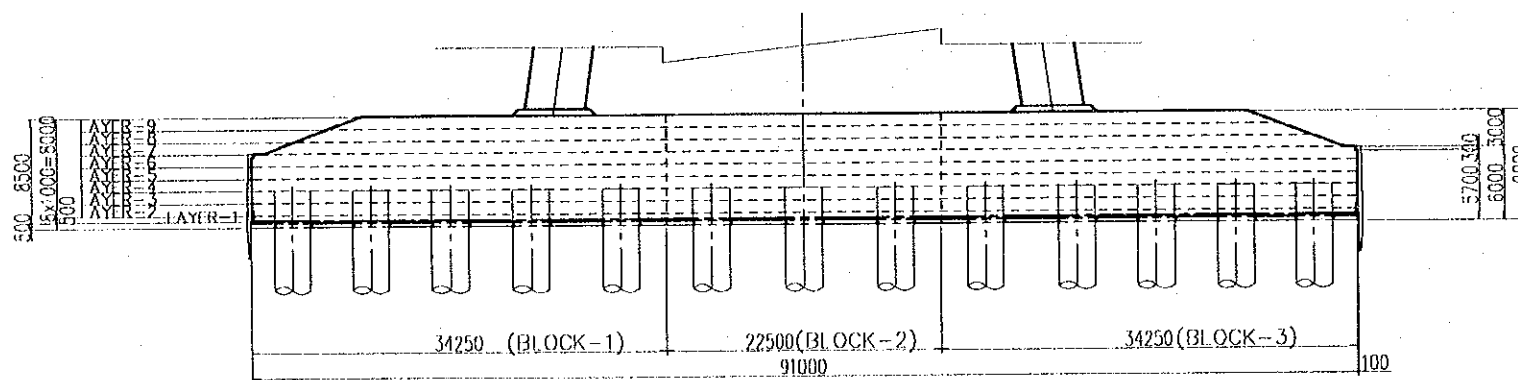
**FRONT ELEVATION  
NORTHERN PYLON**



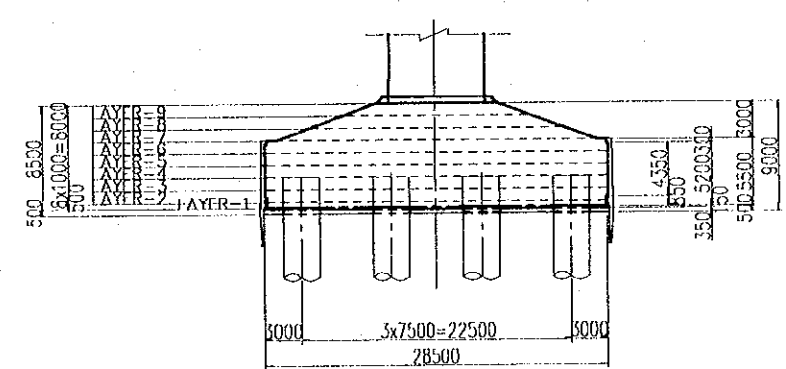
**SIDE ELEVATION  
NORTHERN PYLON**



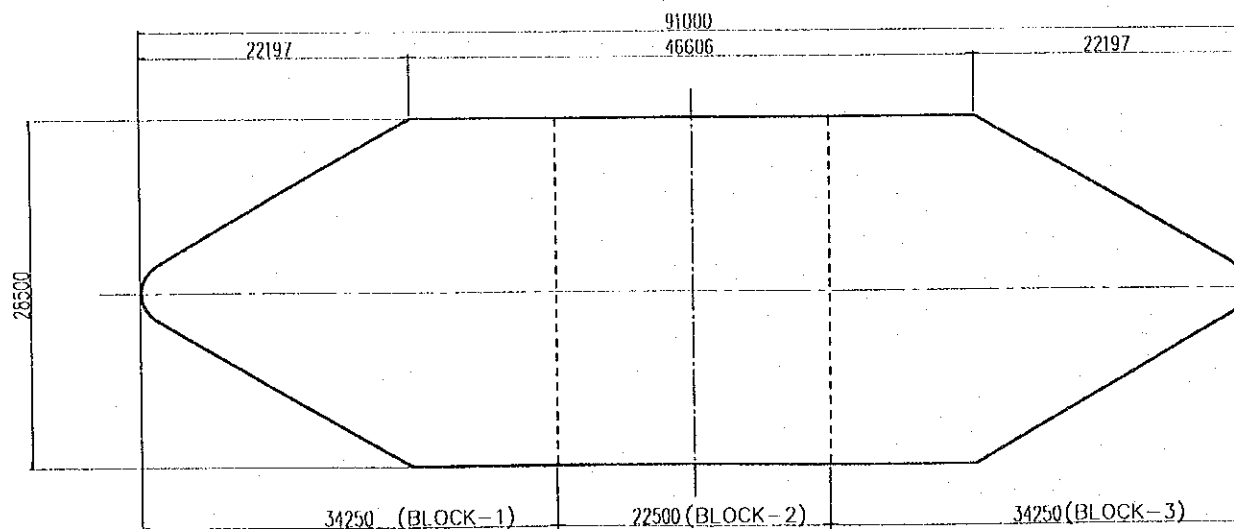
**SOUTHERN PYLON**



**SOUTHERN PYLON**

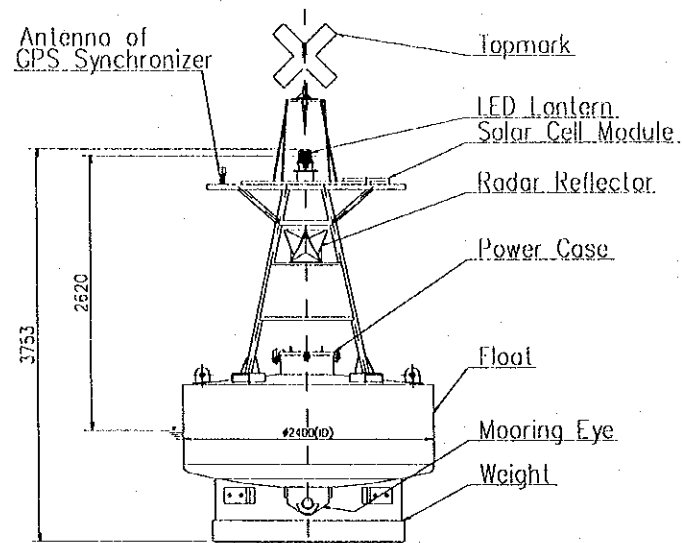
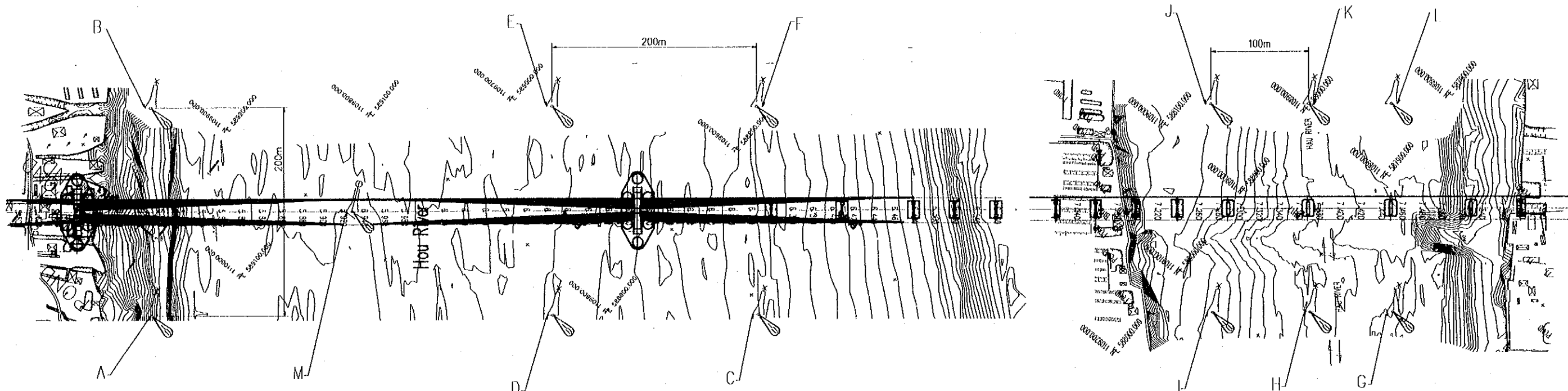


**PLAN**

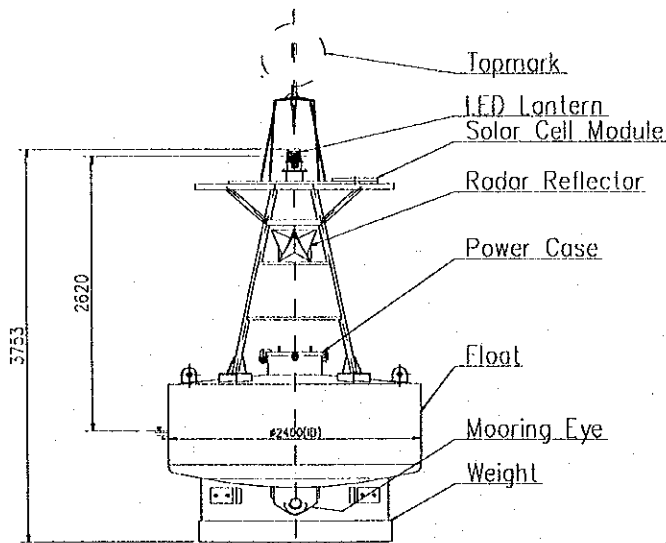


PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	NAME: S. Kiguchi SIGNATURE: <i>S. Kiguchi</i> DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE: <i>K. Matsumoto</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	CABLE STAYED BRIDGE REFERENCE CONCRETE PLACING STEP OF PILE CAP	F2/CS/6050

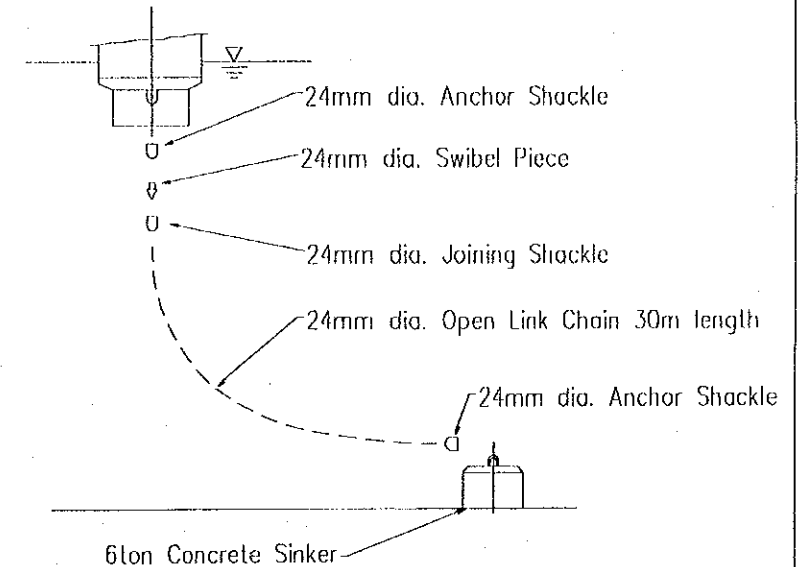
PLAN SCALE 1:4000



Item : A to L  
 Total Mass : approx.1800kg  
 Total Buoyancy : approx.4.2x10<sup>4</sup>N  
 Main Material : Steel  
 Scale 1:70

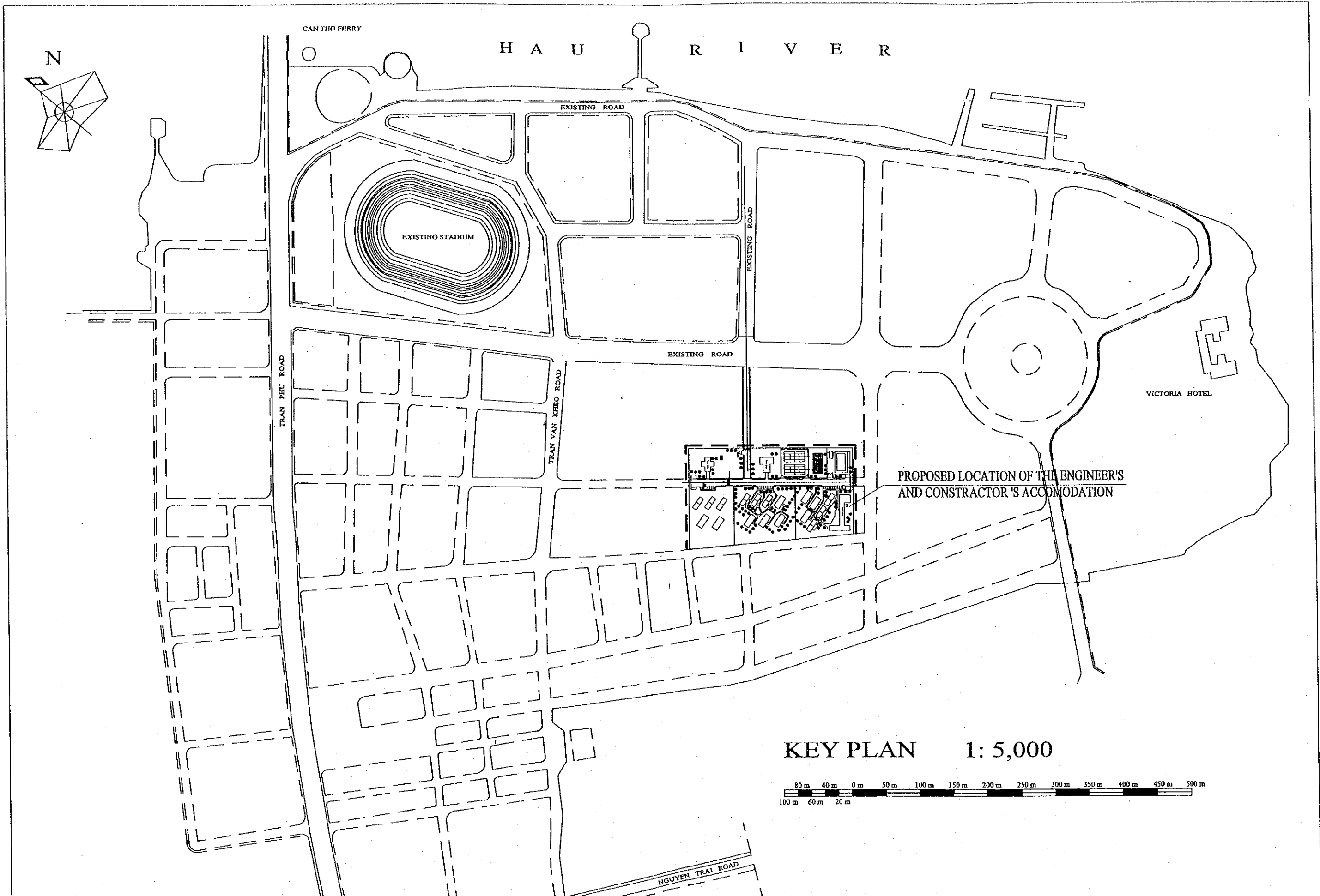


Item : M  
 Total Mass : approx.1800kg  
 Total Buoyancy : approx.4.2x10<sup>4</sup>N  
 Main Material : Steel  
 Scale 1:70

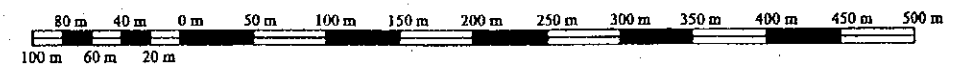




- Note :
- Chain are made in accordance with JIS(Japanese Industrial Standard) Grade 2 or equivalent.
  - End links shall be so precessed as to clear body the same nominal diameter.
  - The shackle pin shall be fixed by a bent stainless with the shackle body.

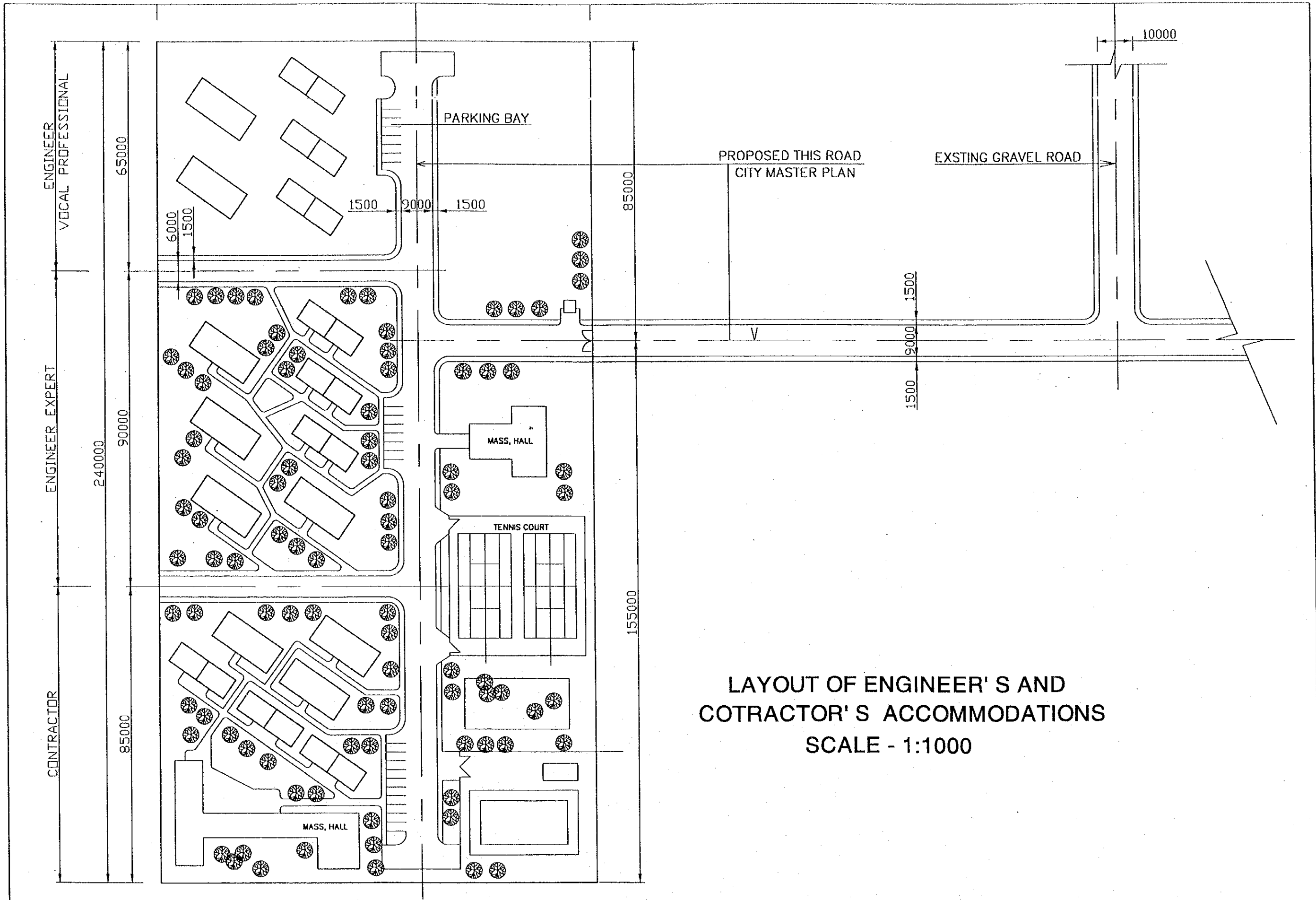
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPON KOEI CO.,LTD.	S. Kiguchi	K. Matsumoto	K. Enomoto	CABLE STAYED BRIDGE REFERENCE TEMPORARY NAVIGATION MARKER BUOYS SYSTEM	F2/CS/6060
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	



KEY PLAN 1: 5,000

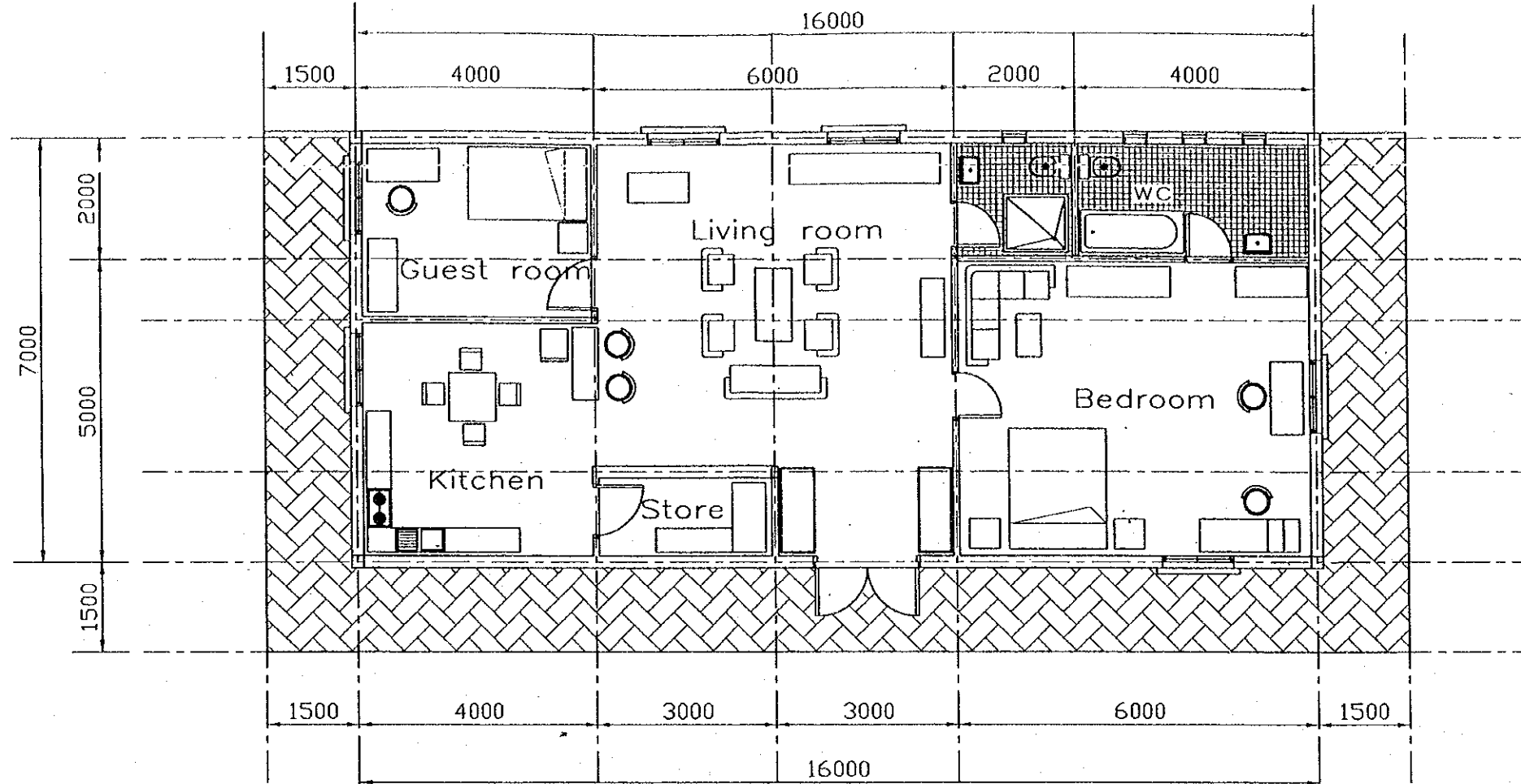


<b>PROJECT NAME</b> DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	<b>IMPLEMENTATION AGENCY</b>  JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	<b>EXECUTING AGENCY</b> SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	<b>JICA STUDY TEAM</b>  NIPPON KOEI CO.,LTD.	<b>PREPARED BY</b> NAME: S. Kiguchi SIGNATURE: <i>S. Kiguchi</i> DATE: 20/9/2000	<b>CHECKED BY</b> NAME: K. Matsumoto SIGNATURE: <i>K. Matsumoto</i> DATE: 29/9/2000	<b>APPROVED BY</b> NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	<b>DRAWING TITLE</b> ENGINEER'S AND CONTRACTOR'S ACCOMMODATION, LOCATION MAP	<b>DWG NO.</b> P2/CS/6070
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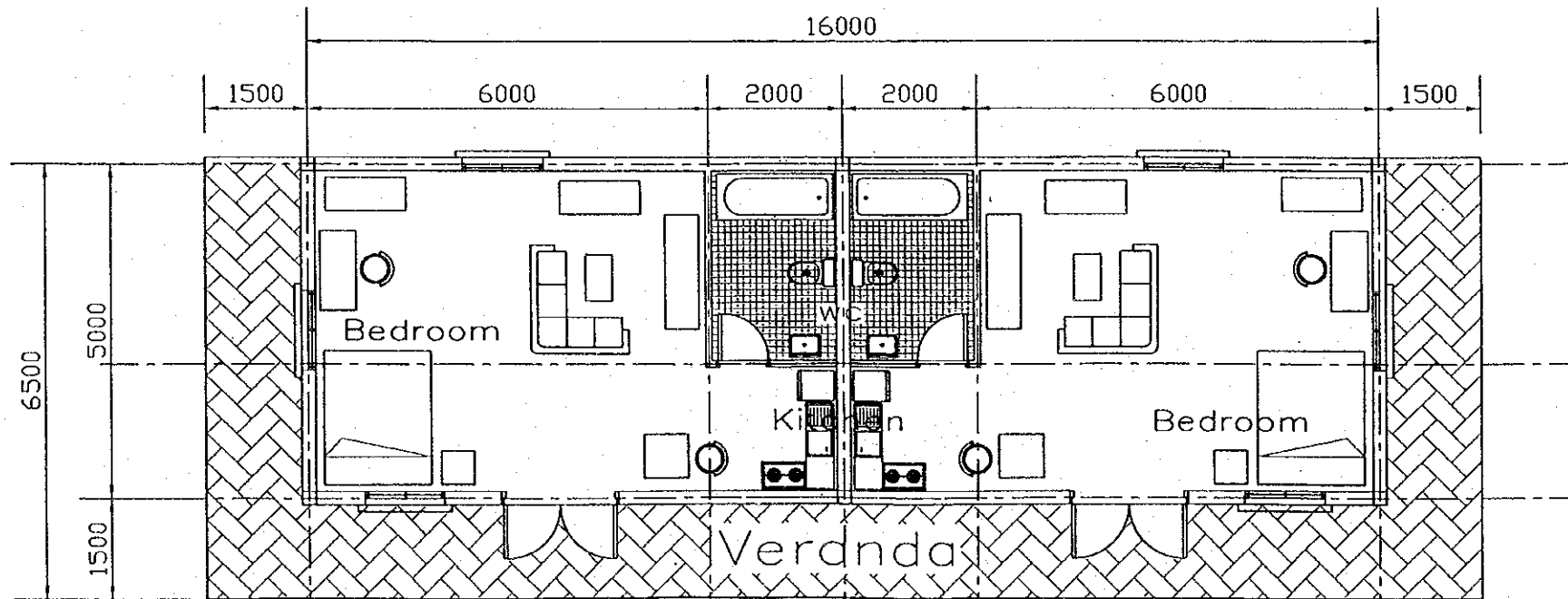


LAYOUT OF ENGINEER'S AND  
COTRACTOR'S ACCOMMODATIONS  
SCALE - 1:1000

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	NAME S. Kiguchi SIGNATURE <i>S. Kiguchi</i> DATE 20/9/2000	NAME K. Matsumoto SIGNATURE <i>K. Matsumoto</i> DATE 29/9/2000	NAME K. Enomoto SIGNATURE <i>K. Enomoto</i> DATE 5/10/2000	ENGINEER'S AND CONTRACTOR'S ACCOMMODATION, LAYOUT	P2/CS/6080



**FAMILY EXPERT ACCOMMODATION** Scale 1:100

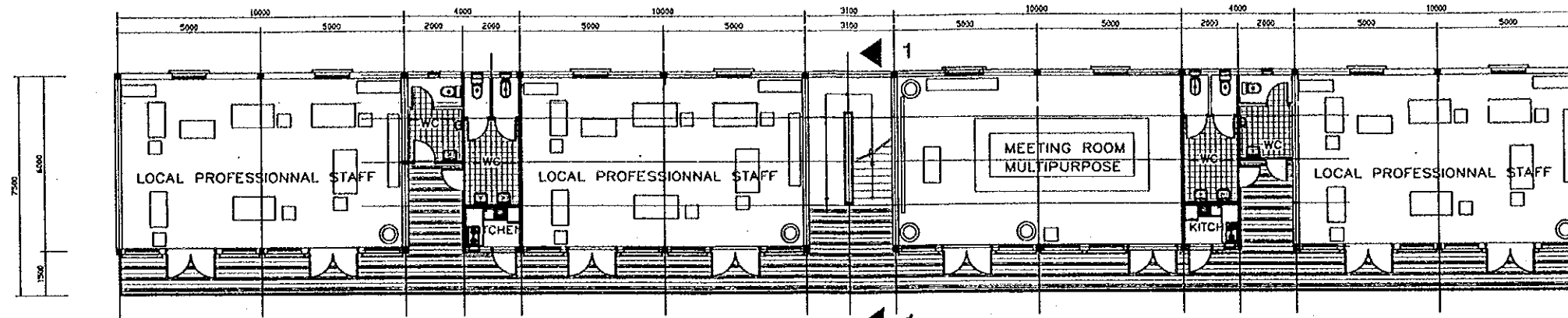


**SINGLE EXPERT ACCOMMODATION**  
( 2 ROOM - 1 UNIT ) Scale 1:100

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME: S. Kiguchi SIGNATURE: <i>S. Kiguchi</i> DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE: <i>K. Matsumoto</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	ARRANGEMENT OF ENGINEER'S ACCOMMODATION	P2/CS/6090

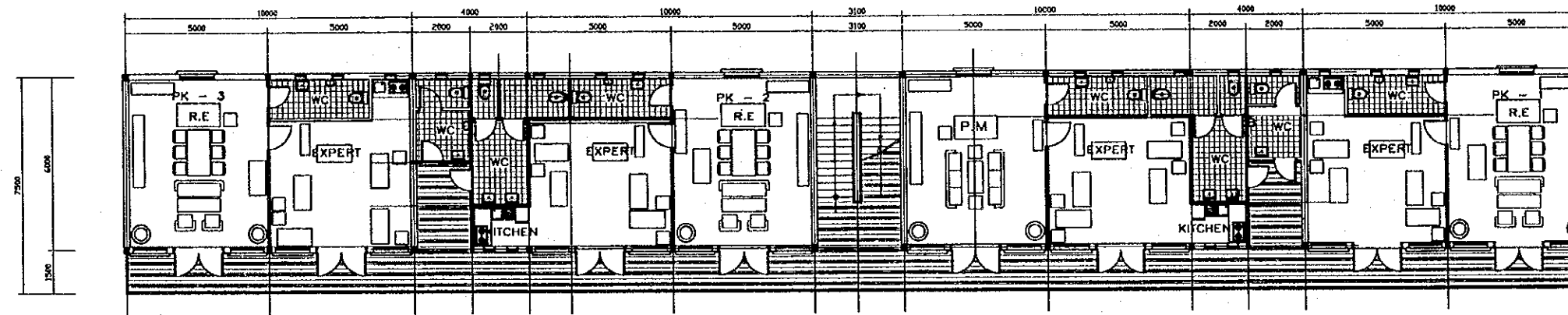


ENGINEER'S OFFICE TYPE No1



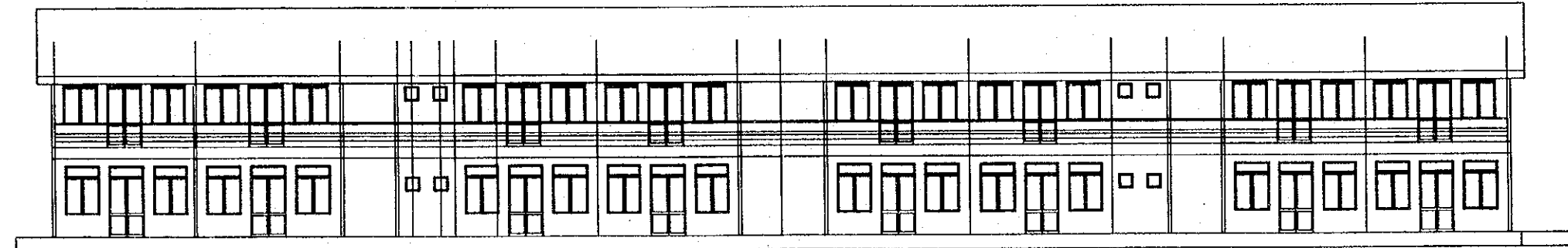
GROUND FLOOR

SC 1:100



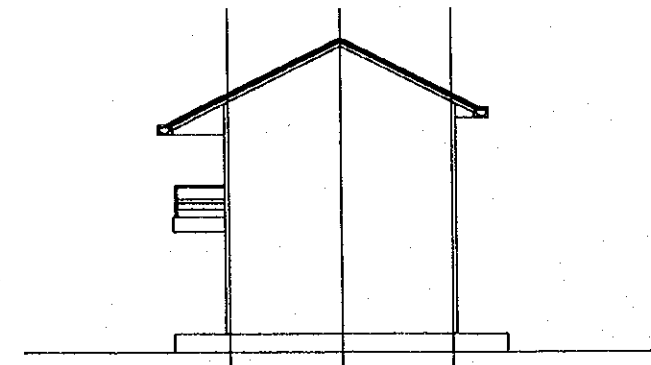
SECOND FLOOR

SC 1:100



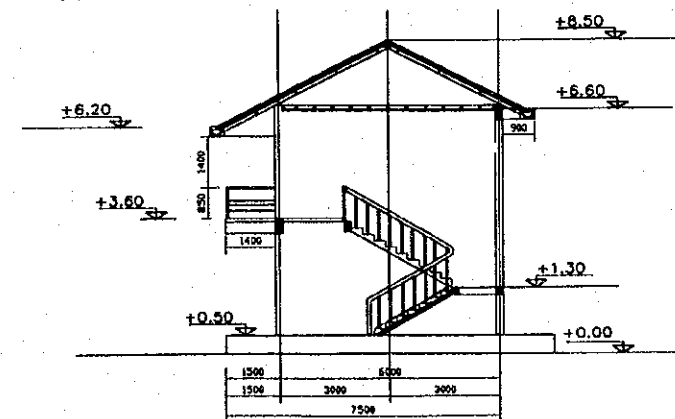
FRONT ELEVATION

SC 1:100





SIDE ELEVATION

SC 1:100



SECTION 1 - 1

SC 1:100

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	 NIPPON KOEI CO.,LTD.	NAME: S. Kiguchi SIGNATURE: <i>S. Kiguchi</i> DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE: <i>K. Matsumoto</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	ENGINEER'S OFFICE IN CONSTRUCTION YARD	P2/CS/6100



JICA

