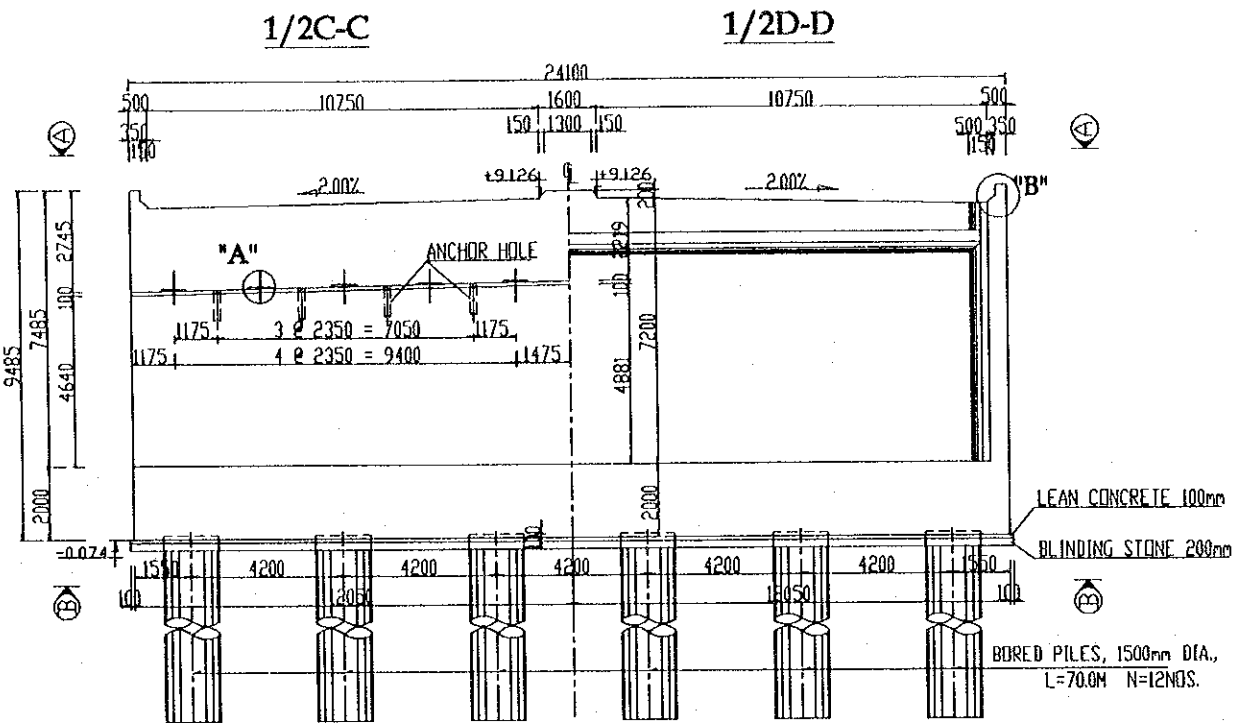


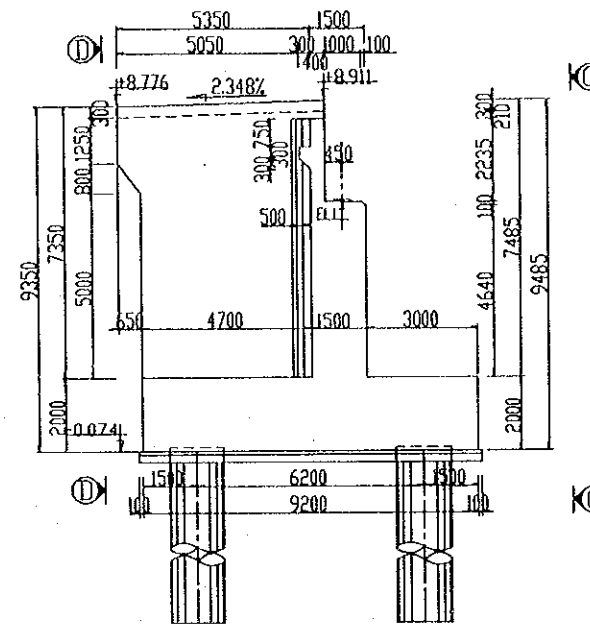
III. ABUTMENTS

DETAIL OF ABUTMENT A1

(SCALE 1:200)

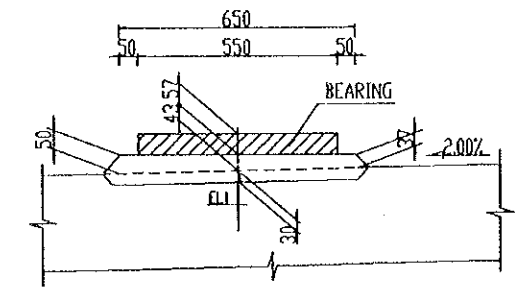


SIDE ELEVATION

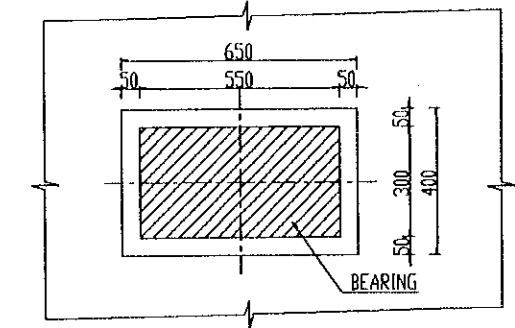


DETAIL "A"

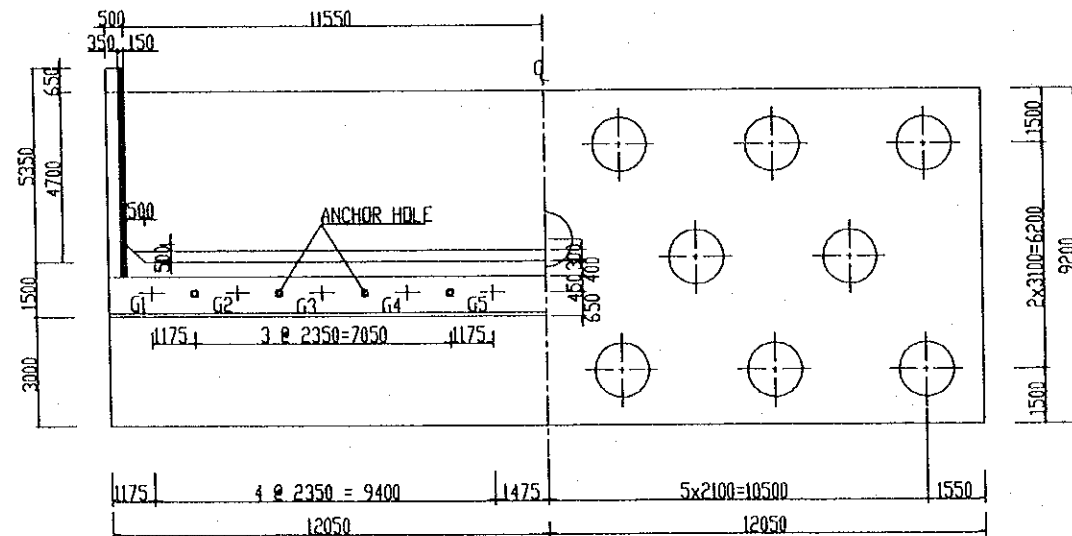
(SCALE 1:20)



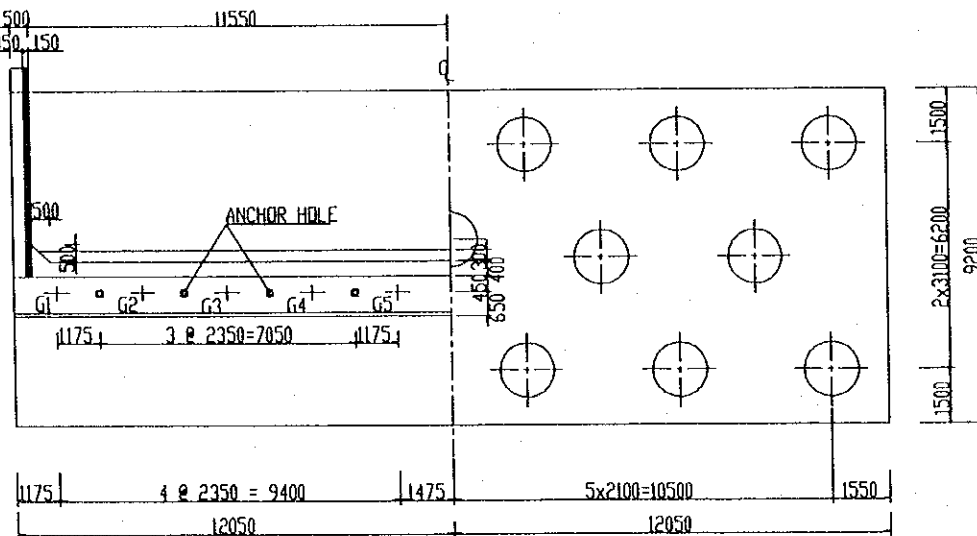
PLAN



1/2A-A

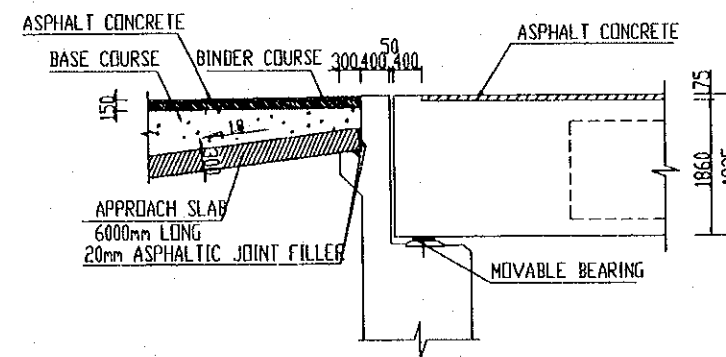


1/2B-B



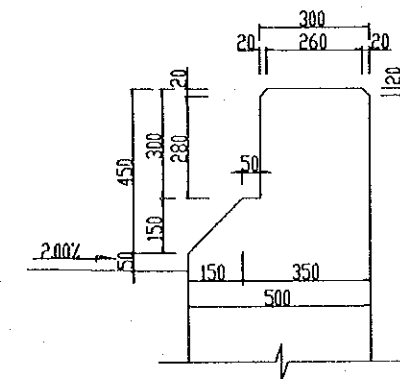
DETAIL OF BACK WALL

(SCALE 1:100)



DETAIL "B"

(SCALE 1:20)



GIRDER BEARING SEAT ELEVATION OF EL1

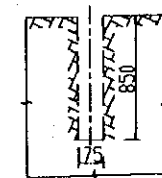
GRUOT PAD	G1	G2	G3	G4	G5
ABUTMENT					
A1	+6.71	+6.75	+6.80	+6.85	+6.90

NOTE

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.PI/BRI/0030.

DETAIL OF ANCHOR HOLE

(SCALE 1:50)



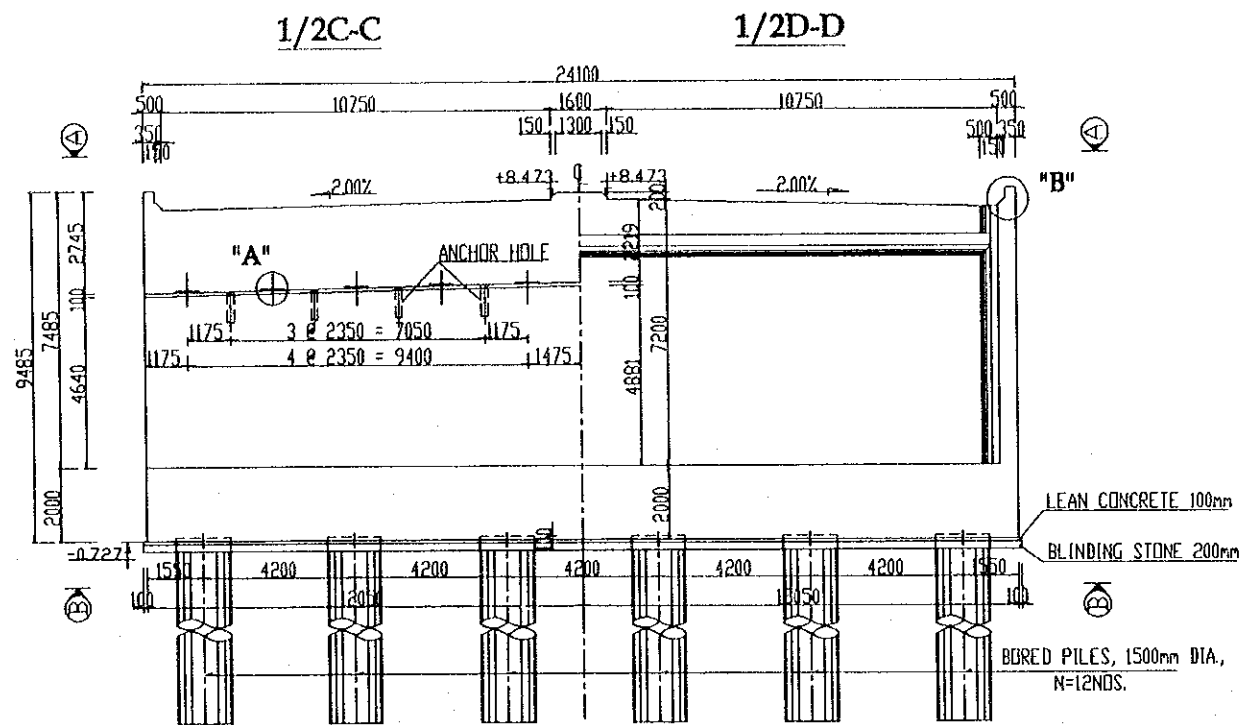
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NK NIPPON KORI CO.,LTD.	T. Kametani	K. Matsumoto	K. Enomoto	LAGE TRA VA BRIDGE ABUTMENTS ABUTMENT A1-GENERAL VIEW	P1/BR1/0220
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

DETAIL OF ABUTMENT A2

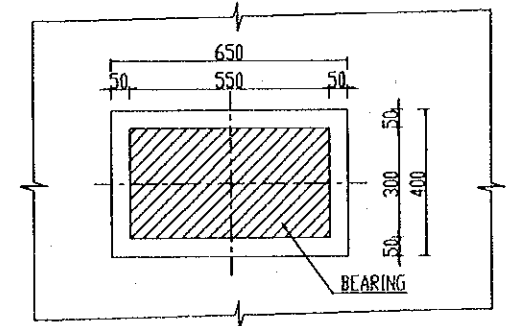
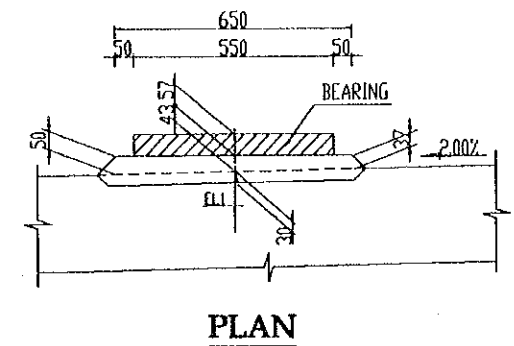
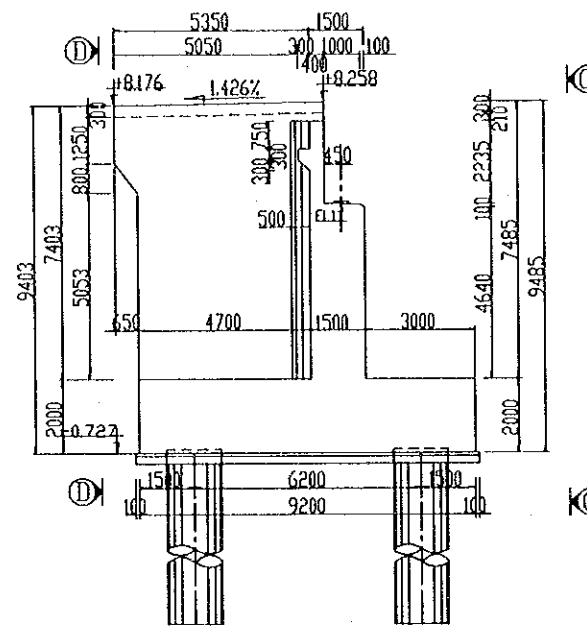
(SCALE 1:200)

DETAIL "A"

(SCALE 1:20)

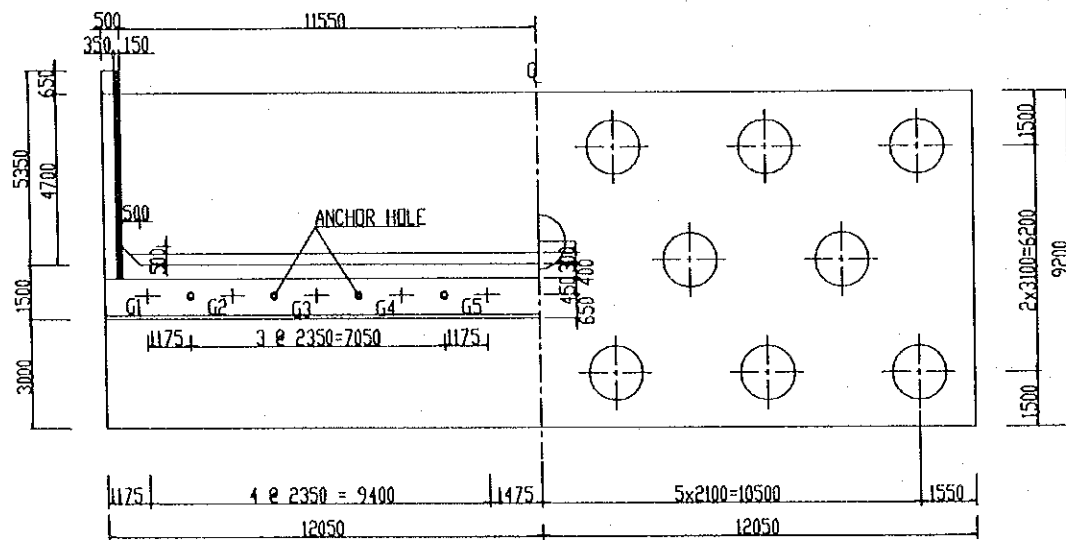


SIDE ELEVATION



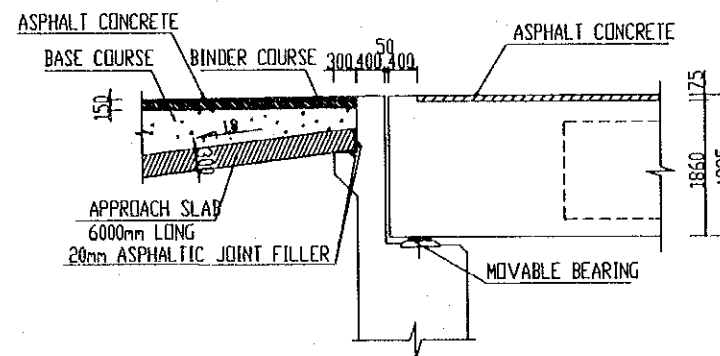
1/2A-A

1/2B-B



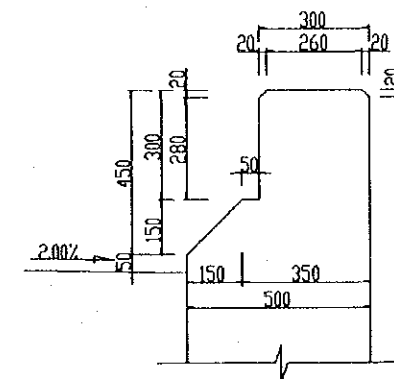
DETAIL OF BACK WALL

(SCALE 1:100)



DETAIL "B"

(SCALE 1:20)

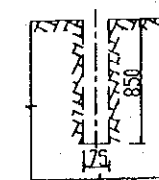


GIRDER BEARING SEAT ELEVATION OF EL1

ABUTMENT	GROUT PAD	G1	G2	G3	G4	G5
A1		+6.05	+6.10	+6.15	+6.20	+6.24

NOTE

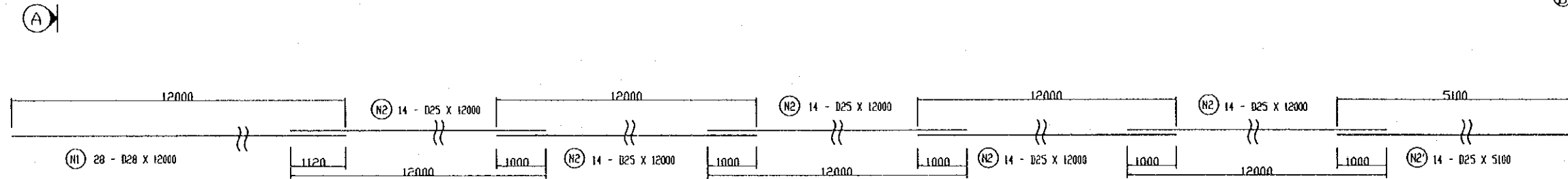
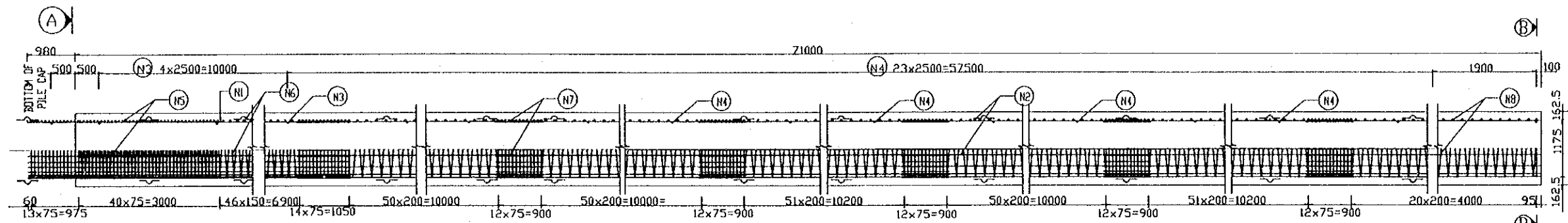
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.P1/BRI/0030.



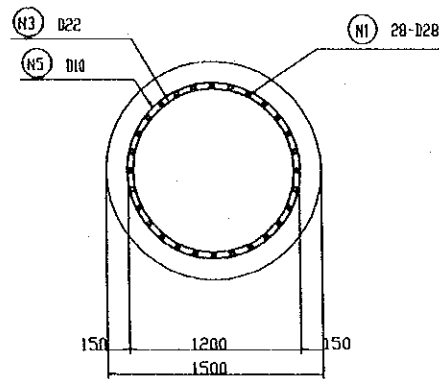
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOBİ CO.,LTD.	T. Kametani	K. Matsumoto	K. Enomoto	LAGE TRA VA BRIDGE ABUTMENTS ABUTMENT A2-GENERAL VIEW	P1/BRI/0290
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

BORED CAST IN-SITU PILE DETAILS FOR ABUTMENTS A1 & A2

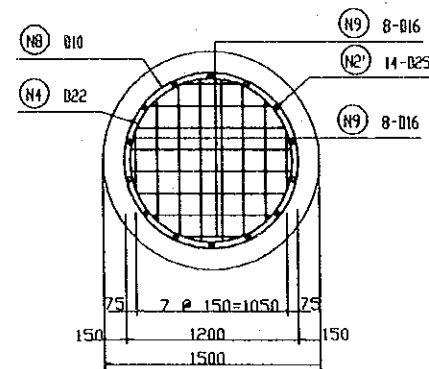
(SCALE 1/100)



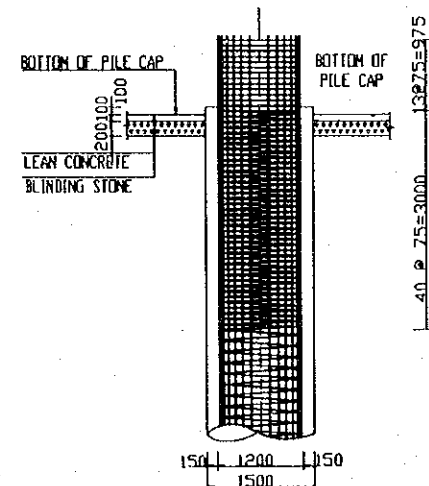
SECTION A-A
(SCALE 1/50)



SECTION B-B
(SCALE 1/50)



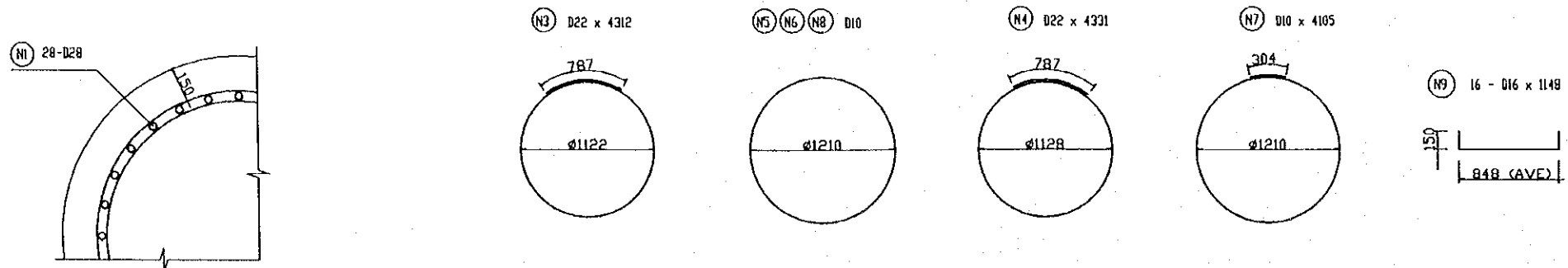
DETAIL OF CONCRETE PILE HEAD
(SCALE 1/100)



MATERIAL OF PILE

TYPE	Ø (mm)	LENGTH OF BAR (mm)	U.WEIGHT (kg/m)	NUMBER	WEIGHT (kg)	CONCRETE VOLUME (m ³)
N1	D28	12000	4.834	28	1624.0	123.7
N2	D25	12000	3.853	70	270.0	
N2'	D25	5100	3.853	14	275.8	
N3	D22	4312	2.984	6	77.4	
N4	D22	4331	2.984	24	309.6	
N5	D10	152053	0.617	1	93.8	
N6	D10	174861	0.617	1	108.0	
N7	D10	4105	0.617	94	237.8	
N8	D10	1033961	0.617	1	638.0	
N9	D16	1148	1.578	16	250	
					D10	1077.6 KG
					D16	29.0 KG
					D22	387.0 KG
					D25	3509.8 KG
					D28	1624.0 KG
TOTAL						6627.4 KG

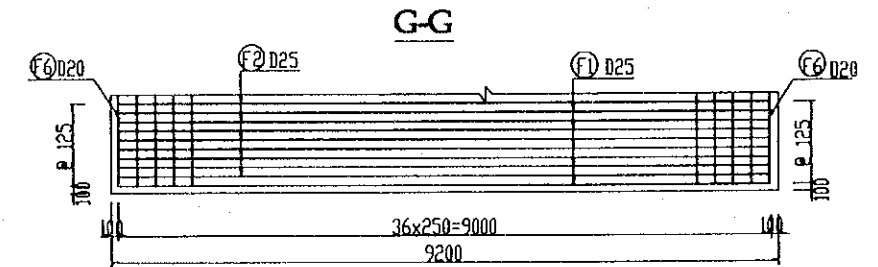
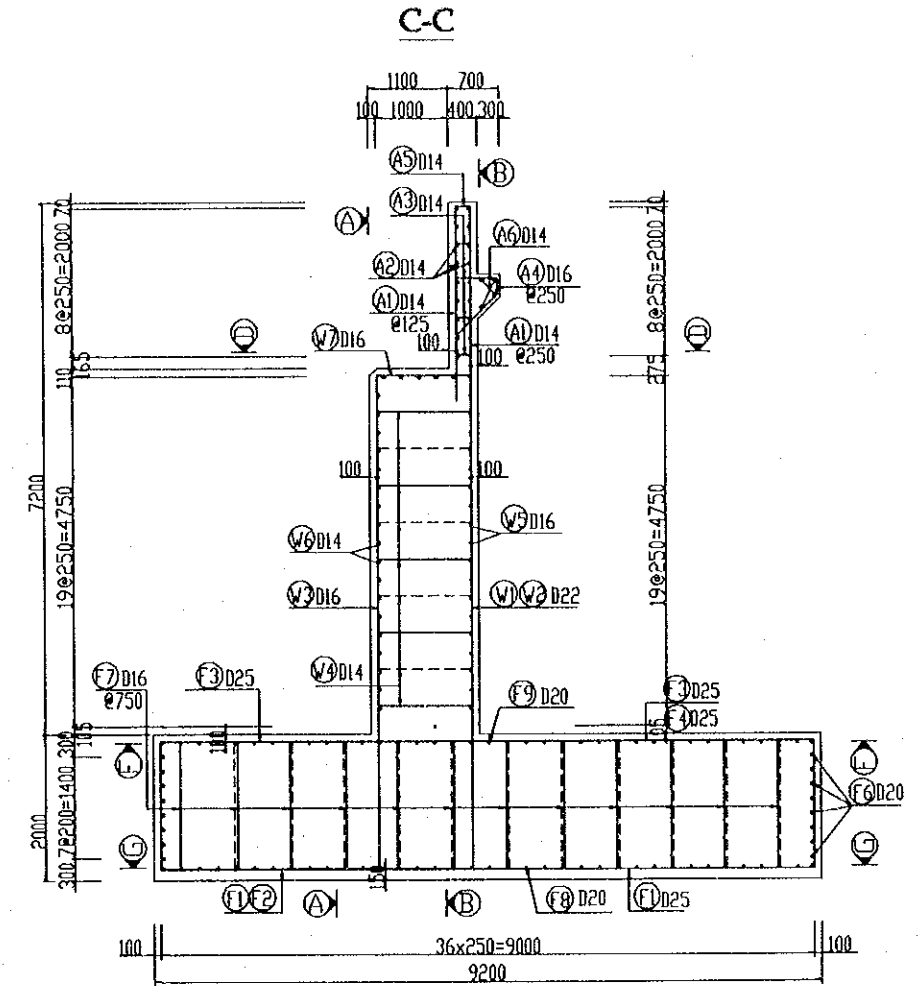
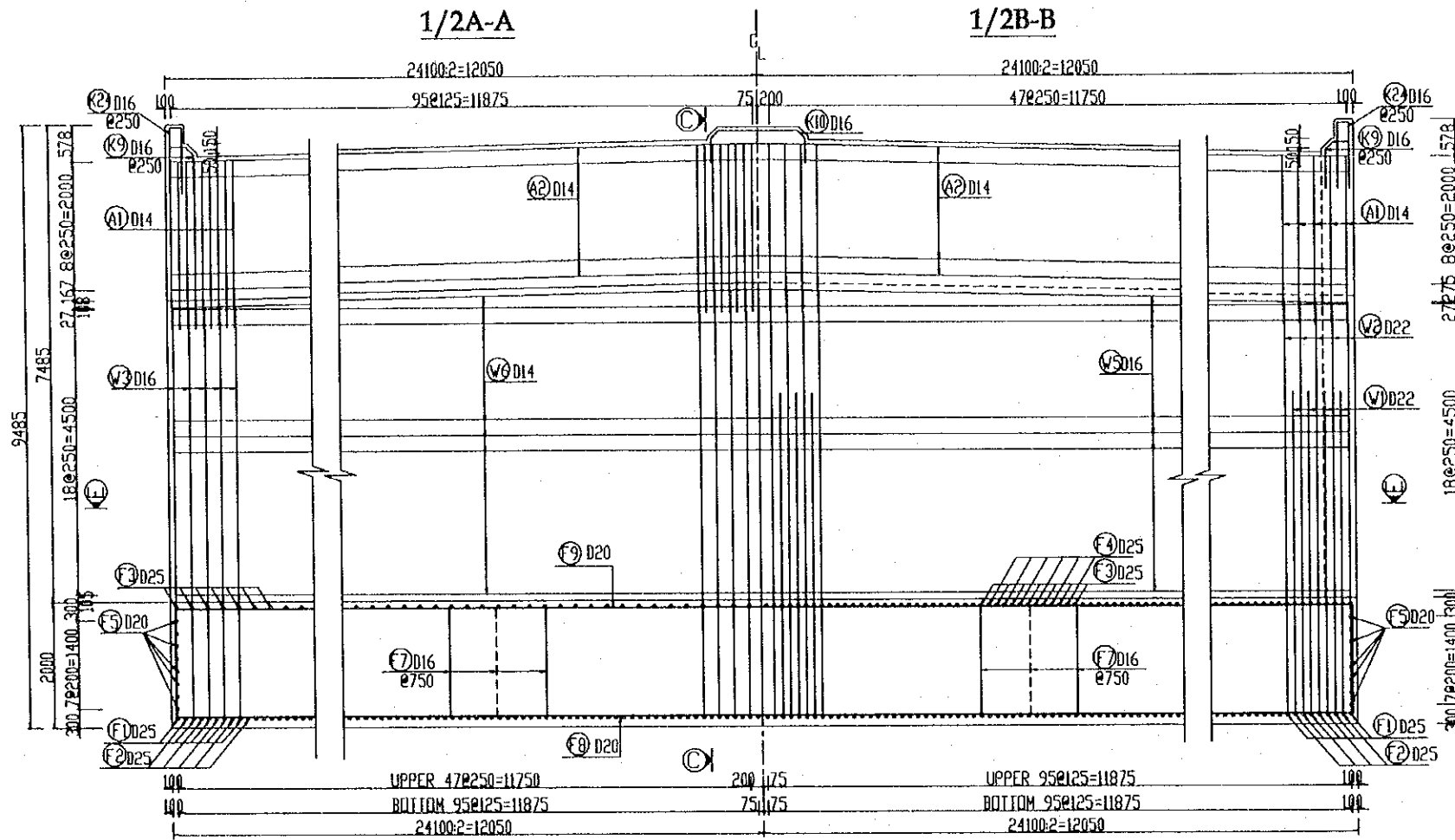
DETAIL OF COVERING
(SCALE 1/25)



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 KOBEL CO., LTD.	NAME: T. Kametani SIGNATURE: [Signature] DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE: [Signature] DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: [Signature] DATE: 5/10/2000	LARGE TRA VA BRIDGE ABUTMENT A1&A2 BORED PILE DETAILS-L=70m	P1/BR1/0300

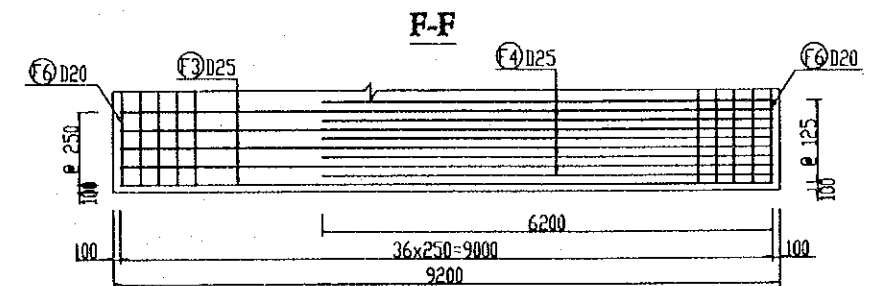
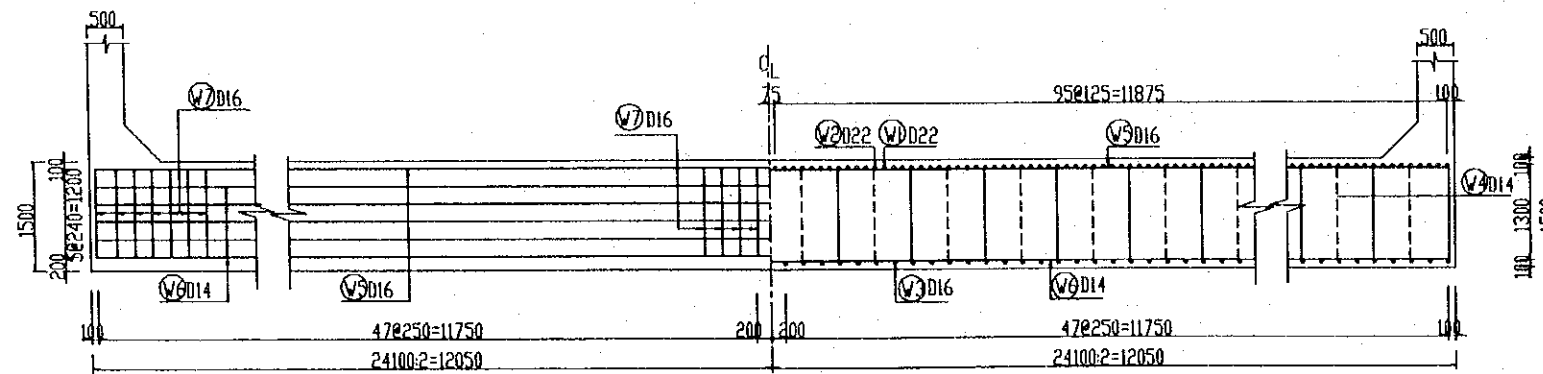
REINFORCEMENT ARRANGEMENT OF ABUTMENT A1

(SCALE 1:100)



1/2D-D

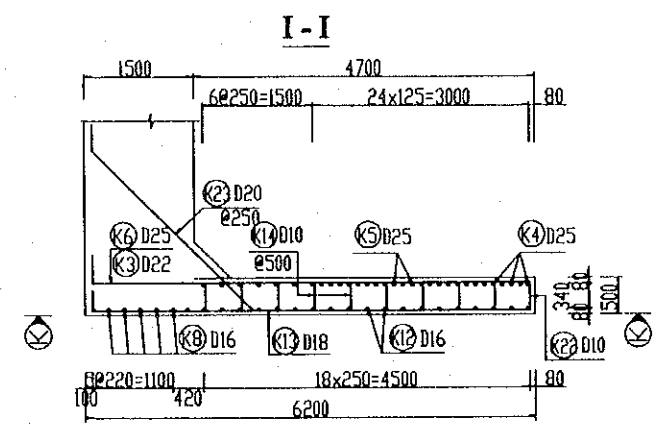
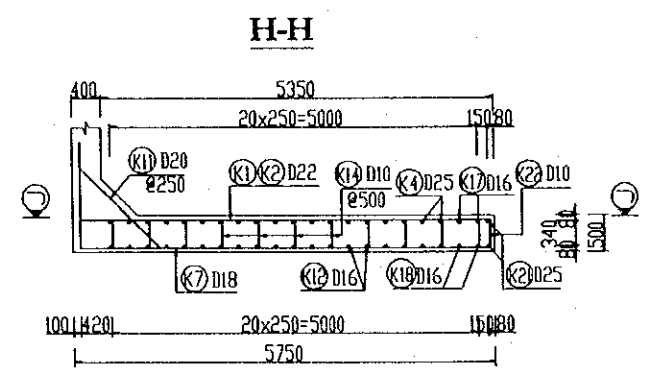
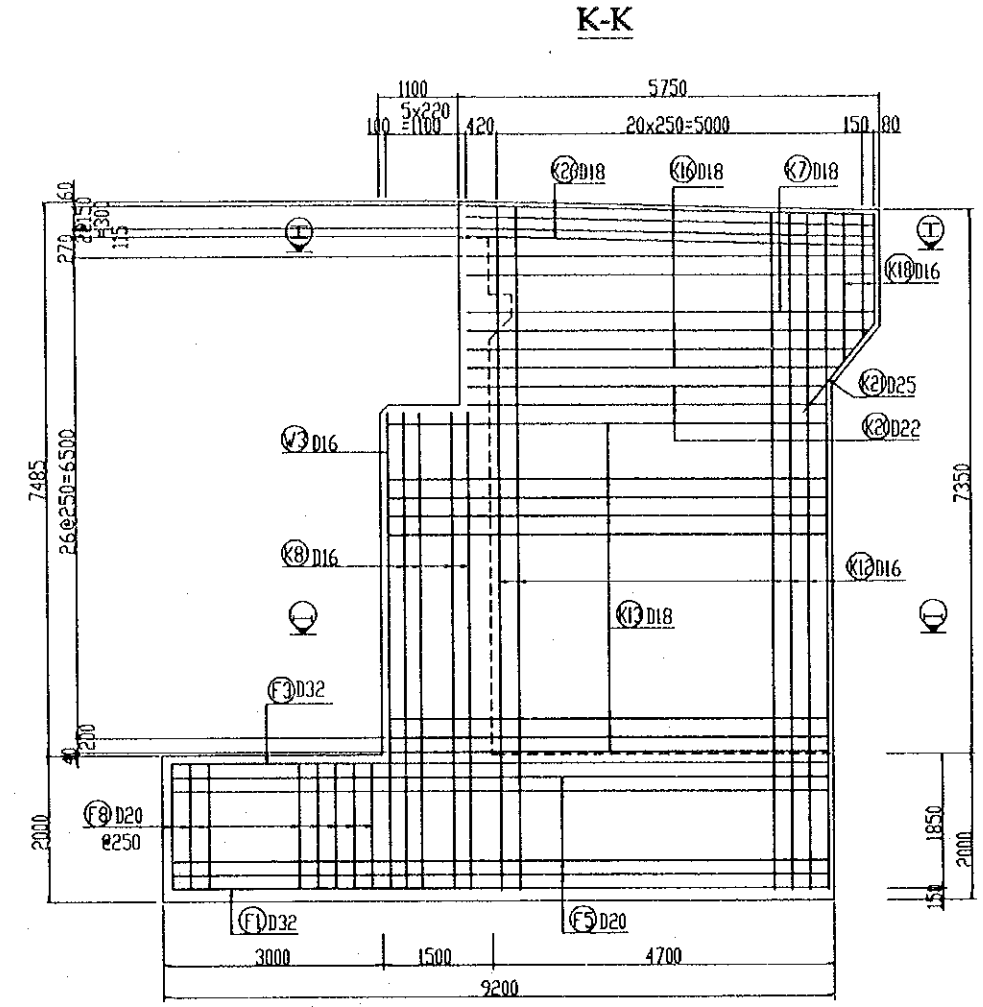
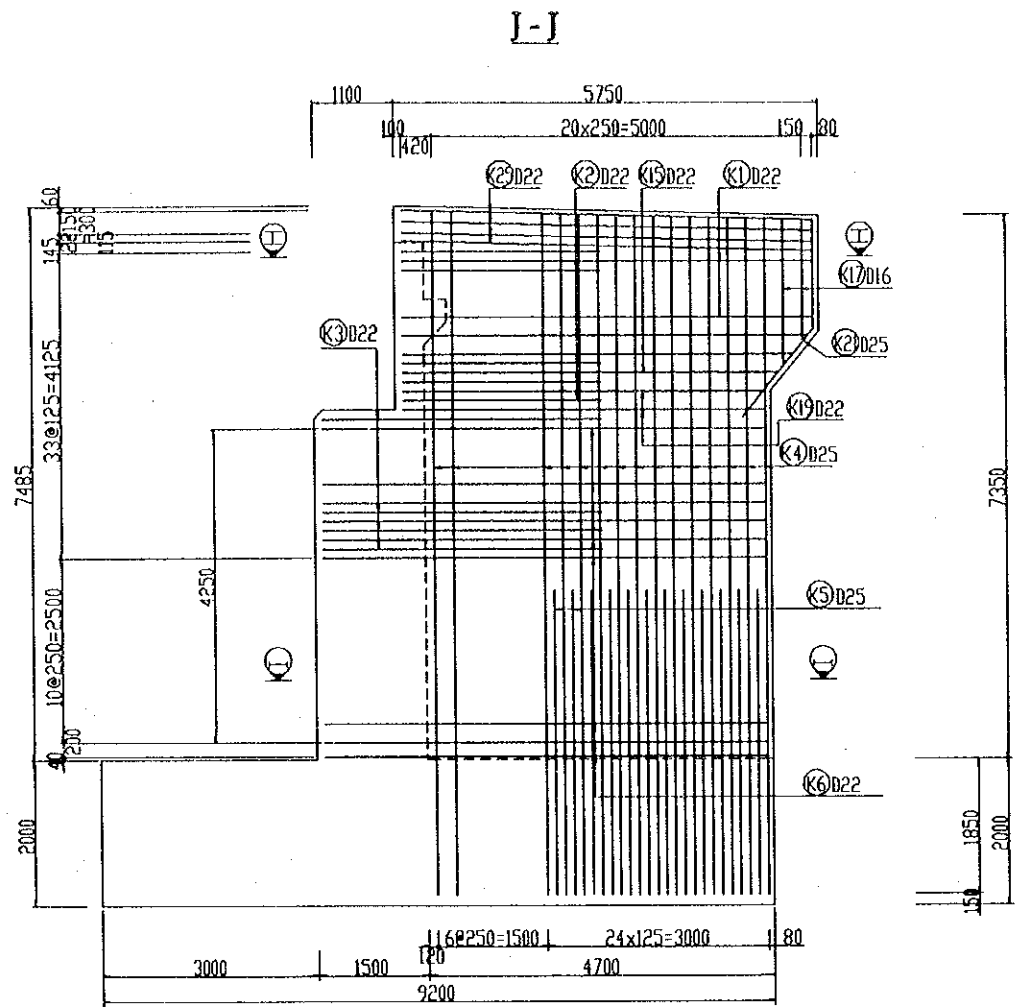
1/2E-E



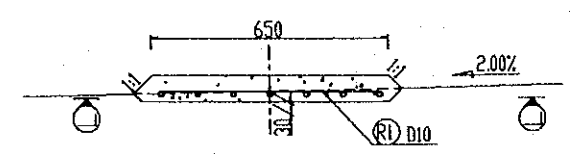
NOTE

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.P1/BRI/0030.

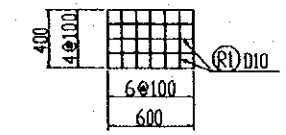
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KORI CO.,LTD.	NAME: T. Kametani	K. Matsumoto	K. Enomoto	LARGE TRA VA BRIDGE ABUTMENTS ABUTMENT A1-REINFORCEMENT-SHEET1	P1/BRI/0310
				SIGNATURE: <i>T. Kametani</i>	<i>K. Matsumoto</i>	<i>K. Enomoto</i>		
				DATE: 20/9/2000	29/9/2000	5/10/2000		



REINFORCING SHOES
(SCALE 1:20)



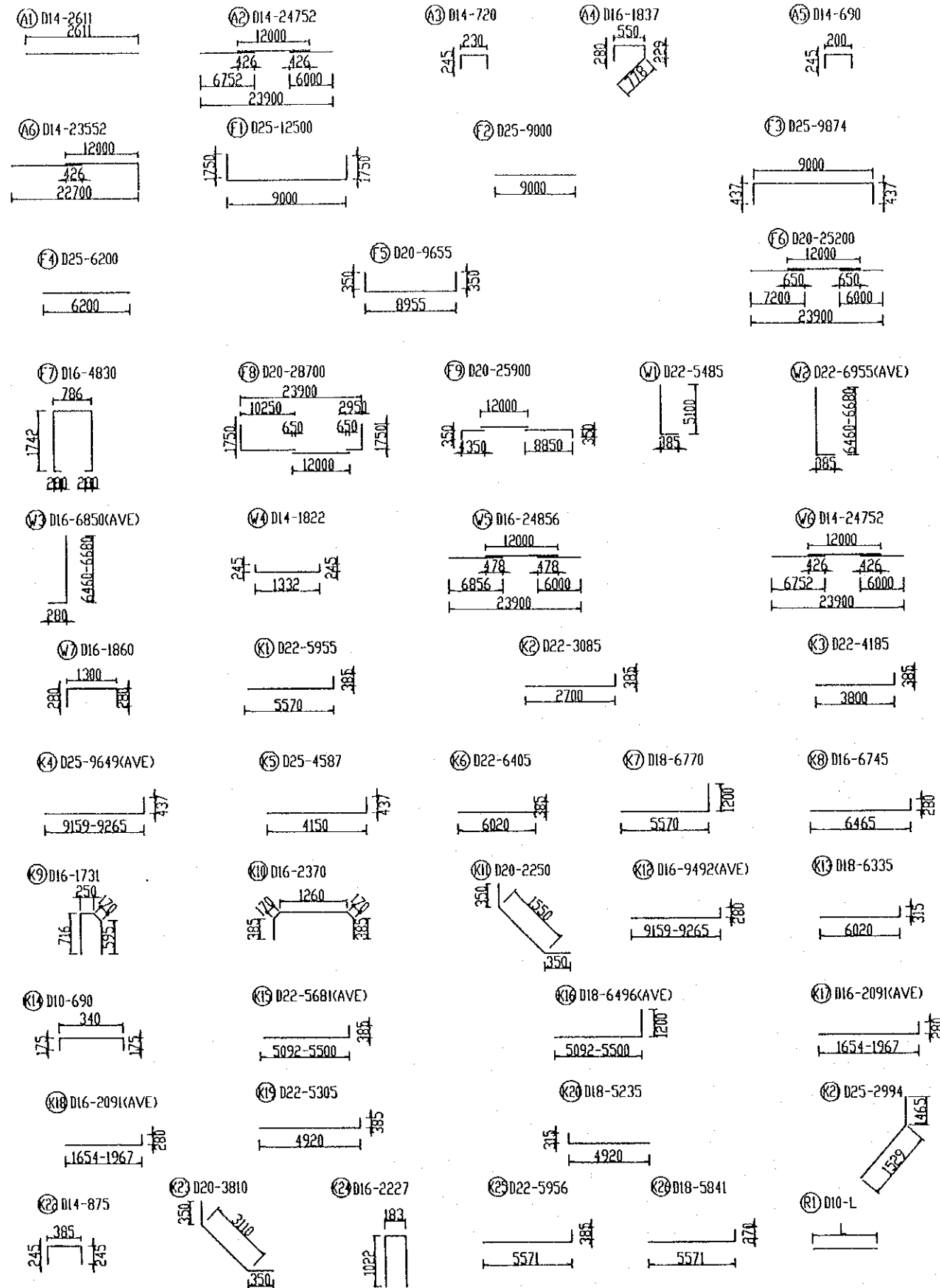
L-L
(SCALE 1:50)



NOTE
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.P1/BRI/0030

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	(NR) NIPPON KORI CO.,LTD.	T. Kametani	K. Matsumoto	K. Enomoto	LARAGE TRA VA BRIDGE ABUTMENTS ABUTMENT A1-REINFORCMENT-SHEET2	P1/BRI/0320
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

LIST OF REINFORCEMENT(FOR ABUTMENT A1)



REINF. No	DIA (mm)	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT (kg)	REMARKS
A1	14	2611	209	1.208	911.6	
A2	14	24752	18	1.208	538.3	
A3	14	720	196	1.208	170.5	
A4	16	1837	97	1.578	281.2	
A5	14	690	97	1.208	80.9	
A6	14	23552	4	1.208	113.9	
F1	25	12500	97	3.853	4671.8	
F2	25	9000	96	3.853	3329.0	
F3	25	9874	97	3.853	3690.4	
F4	25	6200	96	3.853	2293.4	
F5	20	9655	16	2.466	381.0	
F6	20	25200	16	2.466	994.3	
F7	16	4830	176	1.578	1341.5	
F8	20	28700	37	2.466	2618.7	
F9	20	25900	37	2.466	2363.2	
V1	22	5485	94	2.984	1538.6	
V2	22	6955	97	2.984	2013.2	AVERAGE
V3	16	6850	97	1.578	1048.6	AVERAGE
V4	14	1822	221	1.208	486.5	
V5	16	24856	20	1.578	784.5	
V6	14	24752	20	1.208	598.1	
V7	16	1860	97	1.578	284.8	
K1	22	5955	8	2.984	142.2	
K2	22	3085	18	2.984	165.8	
K3	22	4185	16	2.984	199.9	
K4	25	9649	42	3.853	1561.5	AVERAGE
K5	25	4587	24	3.853	424.2	
K6	22	6045	30	2.984	685.5	
K7	18	6770	8	1.998	108.3	
K8	16	6745	10	1.578	106.5	
K9	16	1731	48	1.578	131.2	
K10	16	2370	2	1.578	7.5	
K11	20	2250	18	2.466	99.9	
K12	16	9492	42	1.578	629.1	AVERAGE
K13	18	6335	38	1.998	481.0	
K14	10	690	290	0.617	123.5	
K15	22	5681	6	2.984	101.8	AVERAGE
K16	18	6496	6	1.998	77.9	AVERAGE
K17	16	2091	4	1.578	13.2	AVERAGE
K18	16	2091	4	1.578	13.2	AVERAGE
K19	22	5305	4	2.984	63.4	
K20	18	5235	4	1.998	41.9	
K21	25	2994	4	3.853	46.2	
K22	14	875	64	1.208	67.7	
K23	20	3810	38	2.466	357.1	
K24	16	2227	48	1.578	168.7	
K25	22	5956	8	2.984	142.2	
K26	18	5841	8	1.998	93.4	
RI	10	5800	10	0.617	35.8	
TOTAL					36623 Kg	
						36622.6
		D10	159 Kg	D20	6814 Kg	
		D14	2968 Kg	D22	5053 Kg	
		D16	4810 Kg	D25	16017 Kg	
		D18	803 Kg			

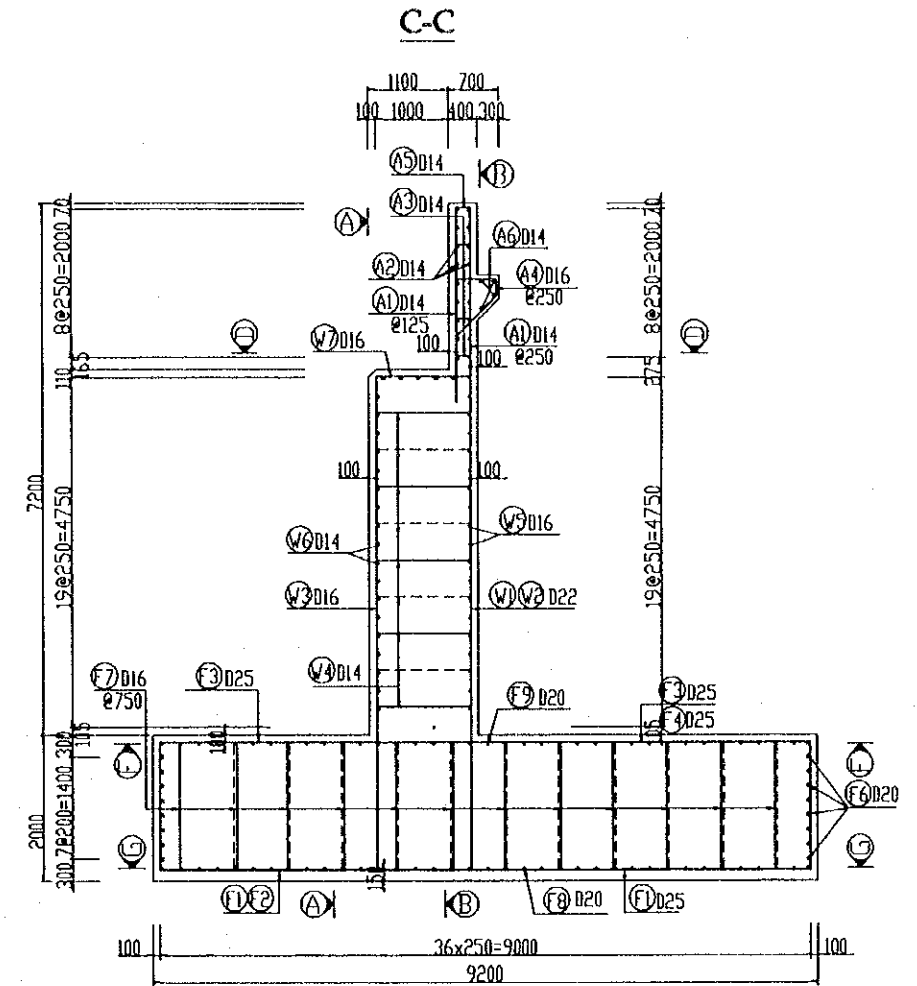
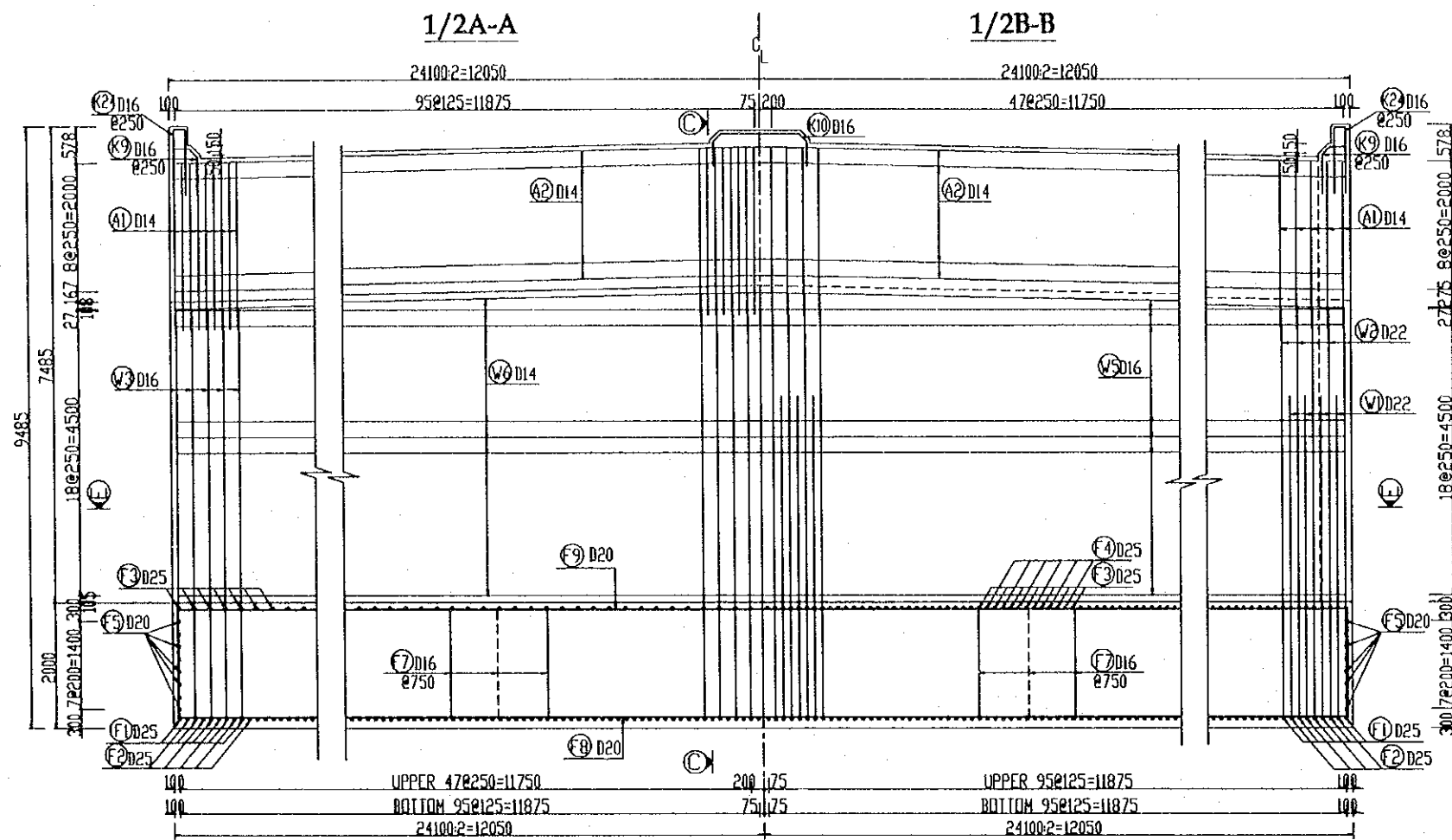
NOTE

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.P1/BRI/0030.

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.	T. Kametani	K.Matsumoto	K. Enomoto	LARAGE TRA VA BRIDGE ABUTMENTS ABUTMENT A1-REINFORCEMENT-SHEET3	P1/BRI/0030
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

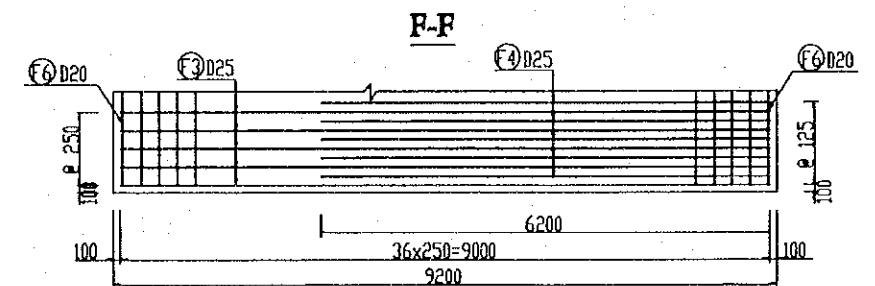
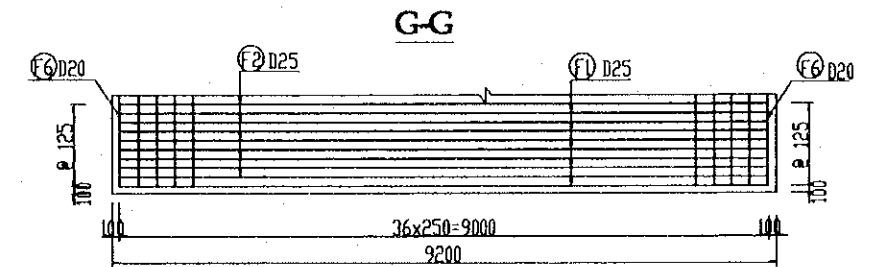
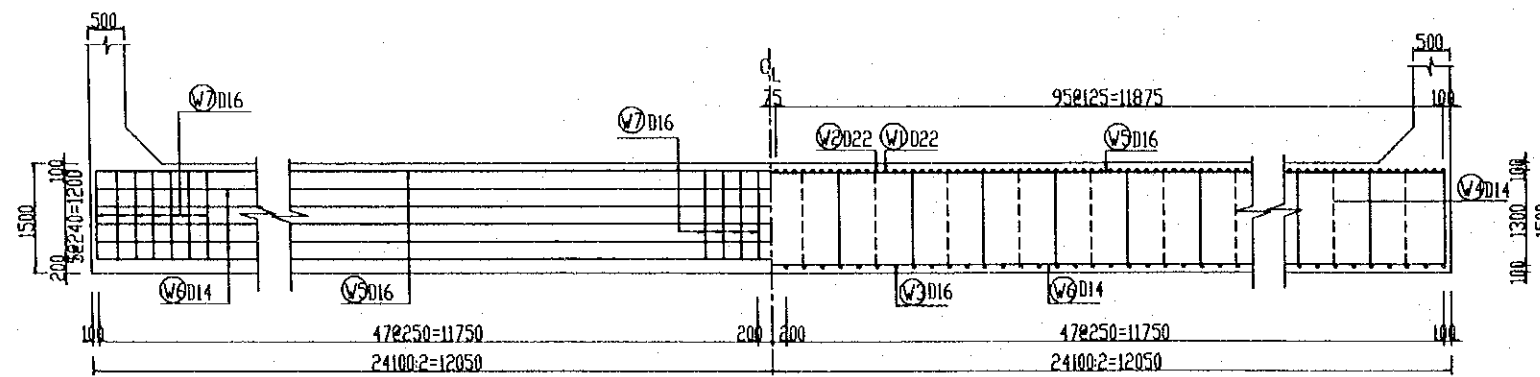
REINFORCEMENT ARRANGEMENT OF ABUTMENT A2

(SCALE 1:100)



1/2D-D

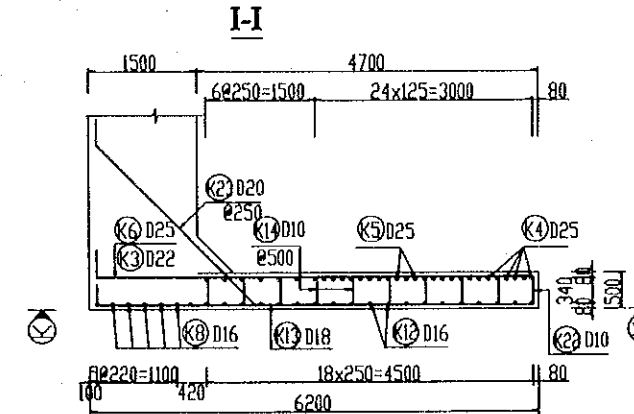
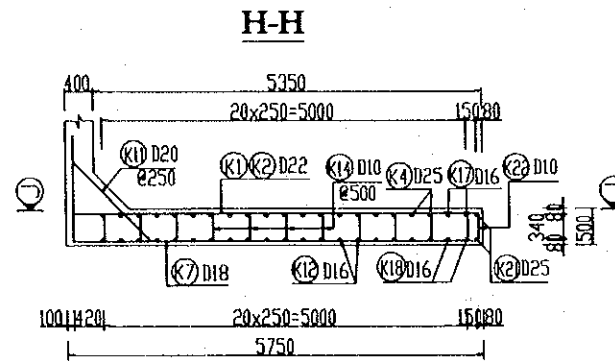
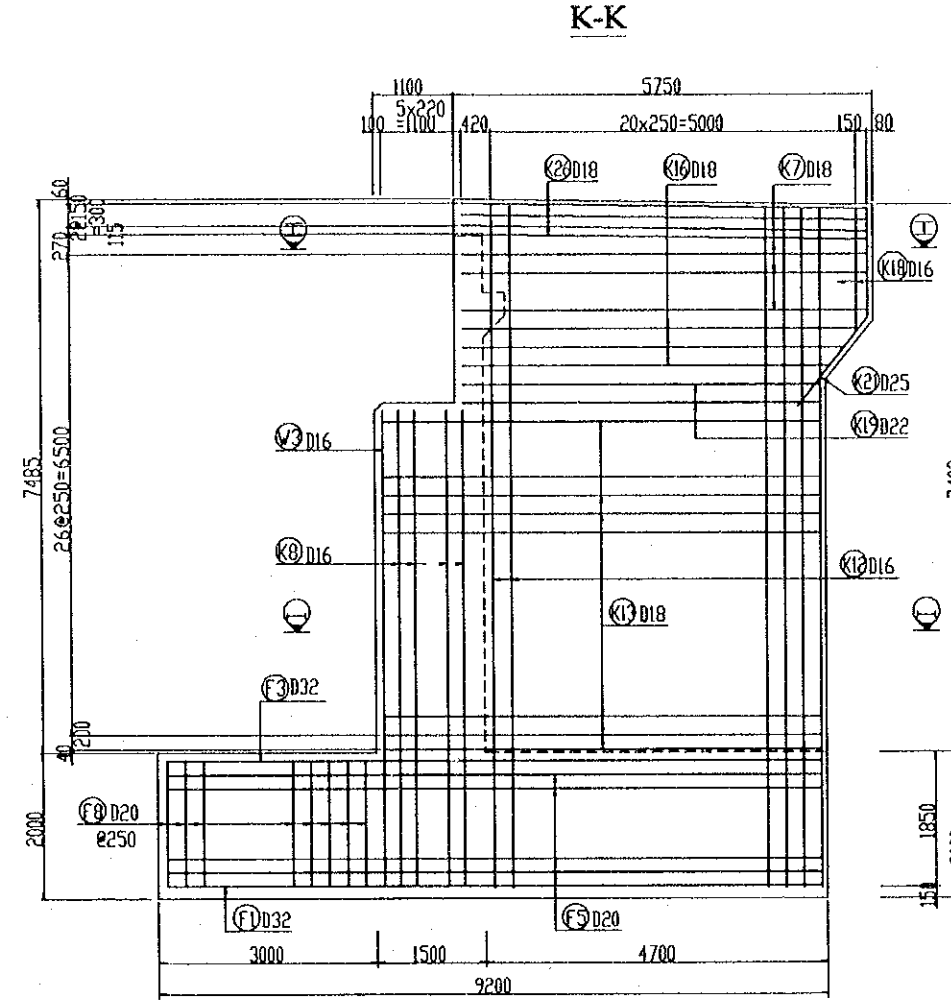
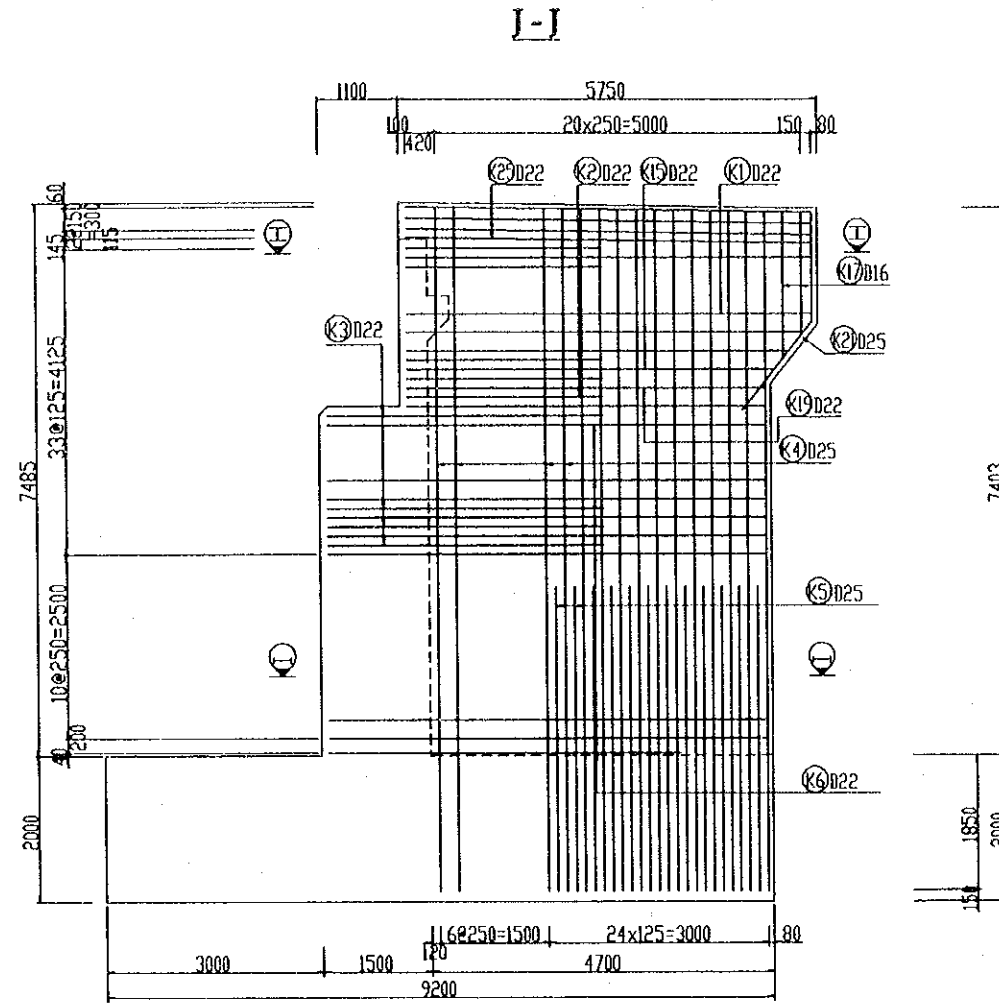
1/2E-E



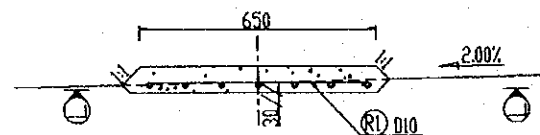
NOTE

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.P1/BRI/0030

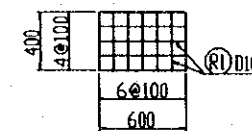
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG. NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	T. Kametani	K. Matsumoto	K. Enomoto	LARGE TRA VA BRIDGE ABUTMENTS ABUTMENT A2-REINFORCEMENT-SHEET1	P1/BRI/0040
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	3/10/2000	



REINFORCING SHOES
(SCALE 1:20)



L-L
(SCALE 1:50)

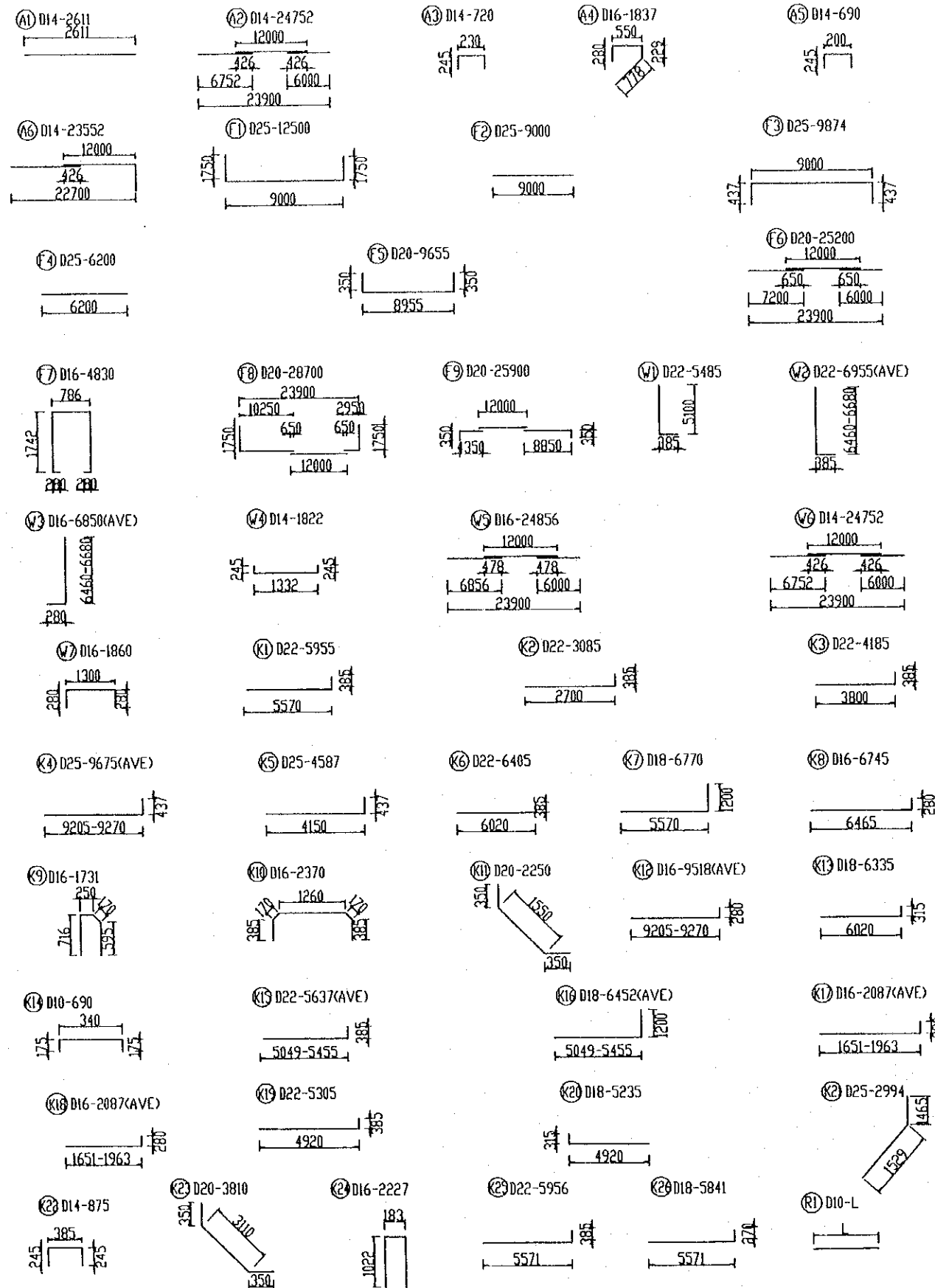


NOTE

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.PI/BR1/0030

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.	T. Kametani	K. Matsumoto	K. Enomoto	LARAGE TRA VA BRIDGE ABUTMENTS ABUTMENT A2-REINFORCMENT-SHEET2	PI/BR1/0350
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

LIST OF REINFORCEMENT(FOR ABUTMENT A2)



REINF. No	DIA. (mm)	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT (kg)	REMARKS
A1	14	2611	289	1.208	911.6	
A2	14	24752	18	1.208	538.3	
A3	14	720	196	1.208	170.5	
A4	16	1837	97	1.578	281.2	
A5	14	690	97	1.208	80.9	
A6	14	23552	4	1.208	113.9	
F1	25	12500	97	3.853	4671.8	
F2	25	9000	96	3.853	3329.0	
F3	25	9874	97	3.853	3690.4	
F4	25	6200	96	3.853	2293.4	
F5	20	9655	16	2.466	381.0	
F6	20	25200	16	2.466	994.3	
F7	16	4830	176	1.578	1341.5	
F8	20	28700	37	2.466	2618.7	
F9	20	25900	37	2.466	2363.2	
V1	22	5485	94	2.984	1538.6	
V2	22	6955	97	2.984	2013.2	AVERAGE
V3	16	6850	97	1.578	1048.6	AVERAGE
V4	14	1822	221	1.208	486.5	
V5	16	24856	20	1.578	784.5	
V6	14	24752	20	1.208	598.1	
V7	16	1860	97	1.578	284.8	
K1	22	5955	8	2.984	142.2	
K2	22	3085	18	2.984	165.8	
K3	22	4185	16	2.984	199.9	
K4	25	9675	42	3.853	1565.7	AVERAGE
K5	25	4587	24	3.853	424.2	
K6	22	6045	38	2.984	685.5	
K7	18	6770	8	1.998	108.3	
K8	16	6745	10	1.578	106.5	
K9	16	1731	48	1.578	131.2	
K10	16	2370	2	1.578	7.5	
K11	20	2250	18	2.466	99.9	
K12	16	9518	42	1.578	630.9	AVERAGE
K13	18	6335	38	1.998	481.0	
K14	10	690	290	0.617	123.5	
K15	22	5637	6	2.984	101.0	AVERAGE
K16	18	6452	6	1.998	77.4	AVERAGE
K17	16	2087	4	1.578	13.2	AVERAGE
K18	16	2087	4	1.578	13.2	AVERAGE
K19	22	5305	4	2.984	63.4	
K20	18	5235	4	1.998	41.9	
K21	25	2994	4	3.853	46.2	
K22	14	875	64	1.208	67.7	
K23	20	3810	38	2.466	357.1	
K24	16	2227	48	1.578	168.7	
K25	22	5956	8	2.984	142.2	
K26	18	5841	8	1.998	93.4	
R1	10	5800	10	0.617	35.8	
TOTAL			36627 Kg		36627.3	
D10			159 Kg	D20	6814 Kg	
D14			2968 Kg	D22	5052 Kg	
D16			4812 Kg	D25	16021 Kg	
D18			802 Kg			

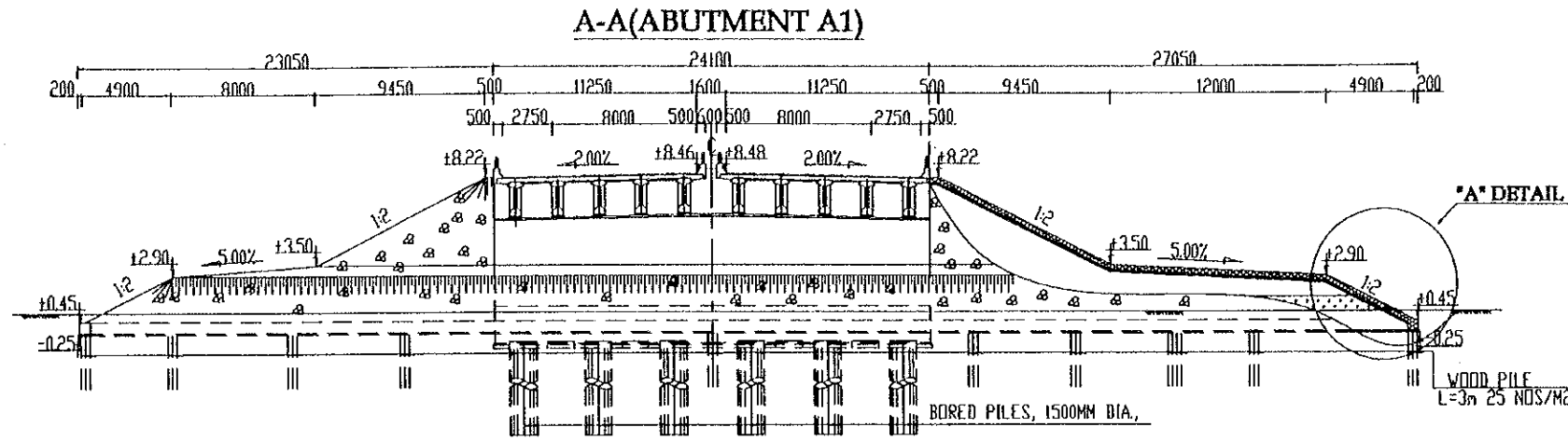
NOTE

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.P1/BRI/0030

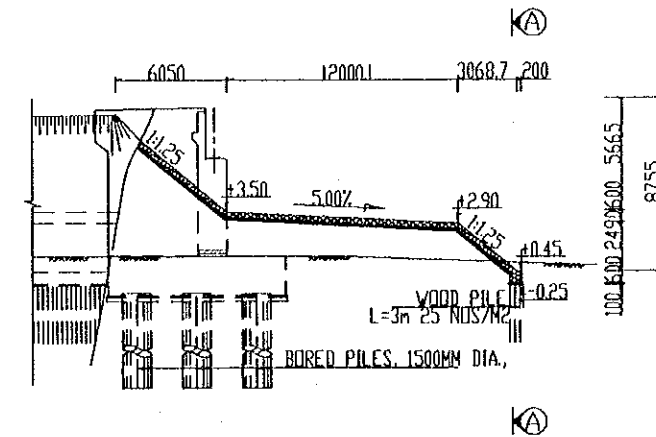
PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM NIPPON KOEI CO.,LTD.	PREPARED BY T. Kametani	CHECKED BY K. Matsumoto	APPROVED BY K. Enomoto	DRAWING TITLE LARAGE TRA VA BRIDGE ABUTMENTS ABUTMENT A2-REINFORCMENT-SHEET3	DWG NO. P1/BRI/0060
				SIGNATURE	SIGNATURE	SIGNATURE		
				DATE 20/9/2000	DATE 29/9/2000	DATE 5/10/2000		

EARTHWORKS SLOPE PROTECTION

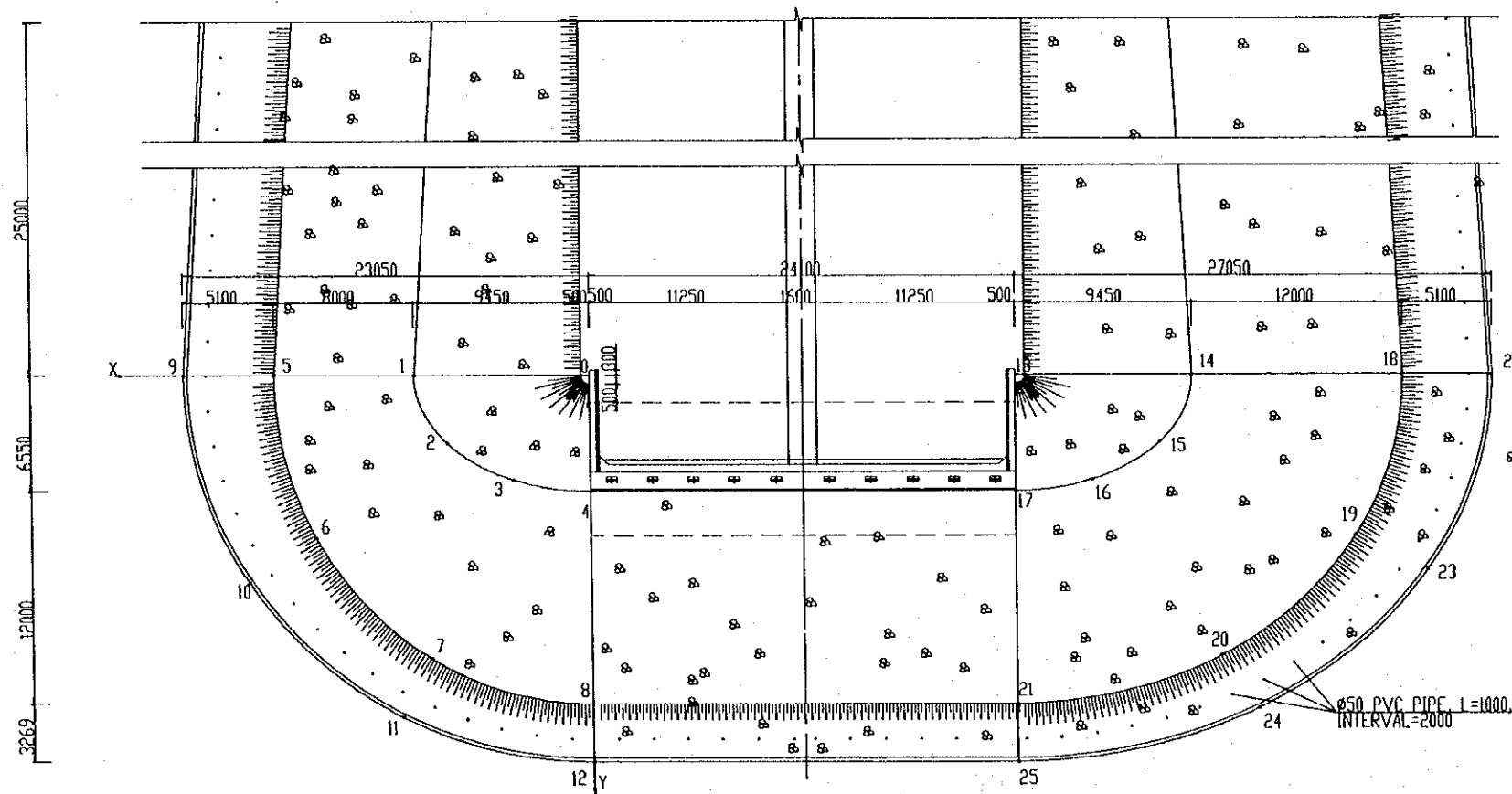
(SCALE 1:375)



SIDE ELEVATION



PLAN



"A" DETAIL

(SCALE 1:150)

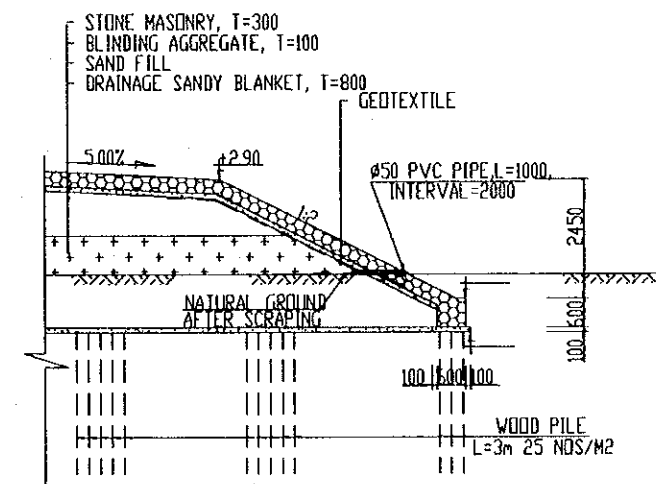


TABLE OF COORDINATES

No	X (cm)	Y (cm)	No	X (cm)	Y (cm)	No	X (cm)	Y (cm)	No	X (cm)	Y (cm)
0	0	0	7	909	1600	14	-3405	0	21	-2410	1855
1	995	0	8	0	1855	15	-3219	381	22	-5115	0
2	809	381	9	2305	0	16	-2840	591	23	-4746	1100
3	430	591	10	1943	1174	17	-2410	655	24	-3780	1881
4	0	655	11	1074	1931	18	-4605	0	25	-2410	2182
5	1795	0	12	0	2182	19	-4334	906			
6	1561	916	13	-2410	0	20	-3565	1586			

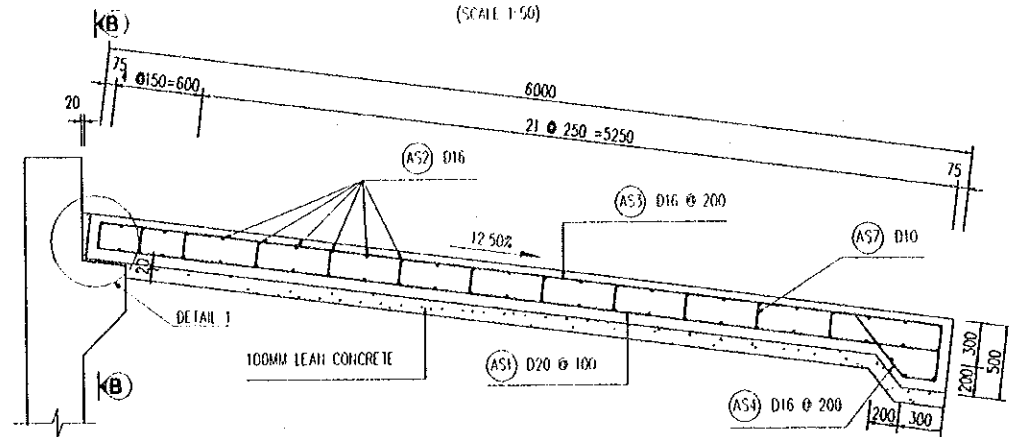
NOTES

1. FOR STANDARD STRUCTURAL NOTES SEE DRAWING No. P1/BR1/0030.

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 KOBİ CO., LTD.	T. Kametani	K. Matsumoto	K. Enomoto	LARGE TRA VA BRIDGE ABUTMENTS ABUTMENT A1-EARTHWORKS SLOPE PROTECTION	P1/BR1/0370
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

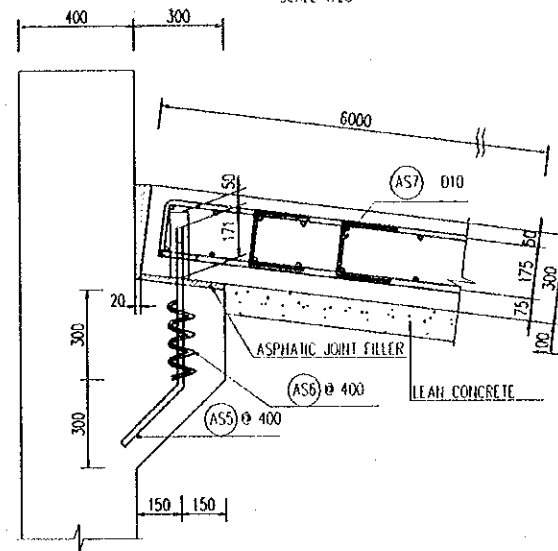
SECTION A - A

(SCALE 1:50)



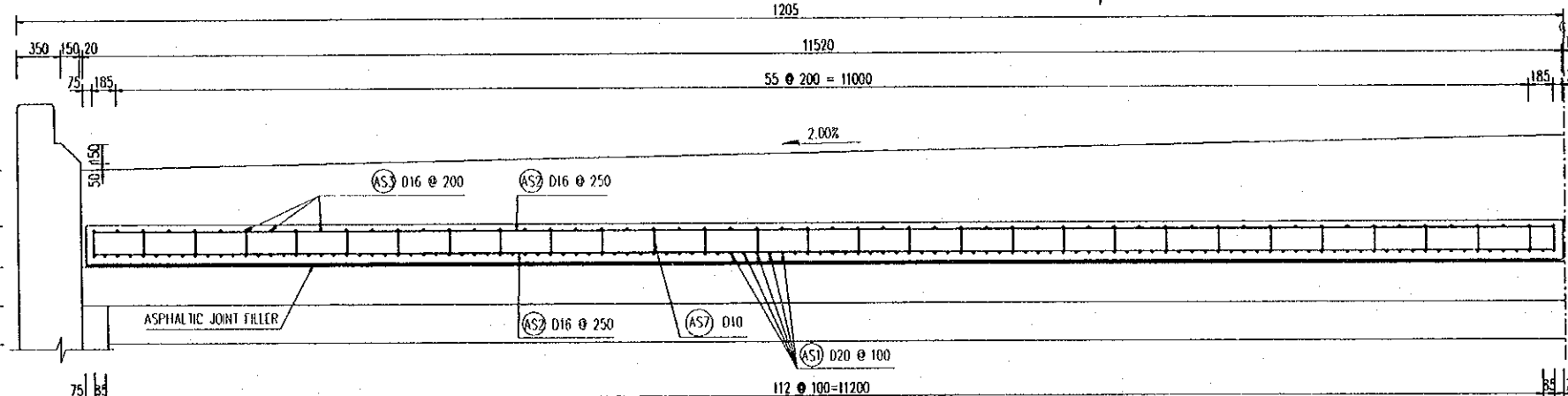
DETAIL 1

SCALE 1:25



HALF SECTION B - B

(SCALE 1:50)

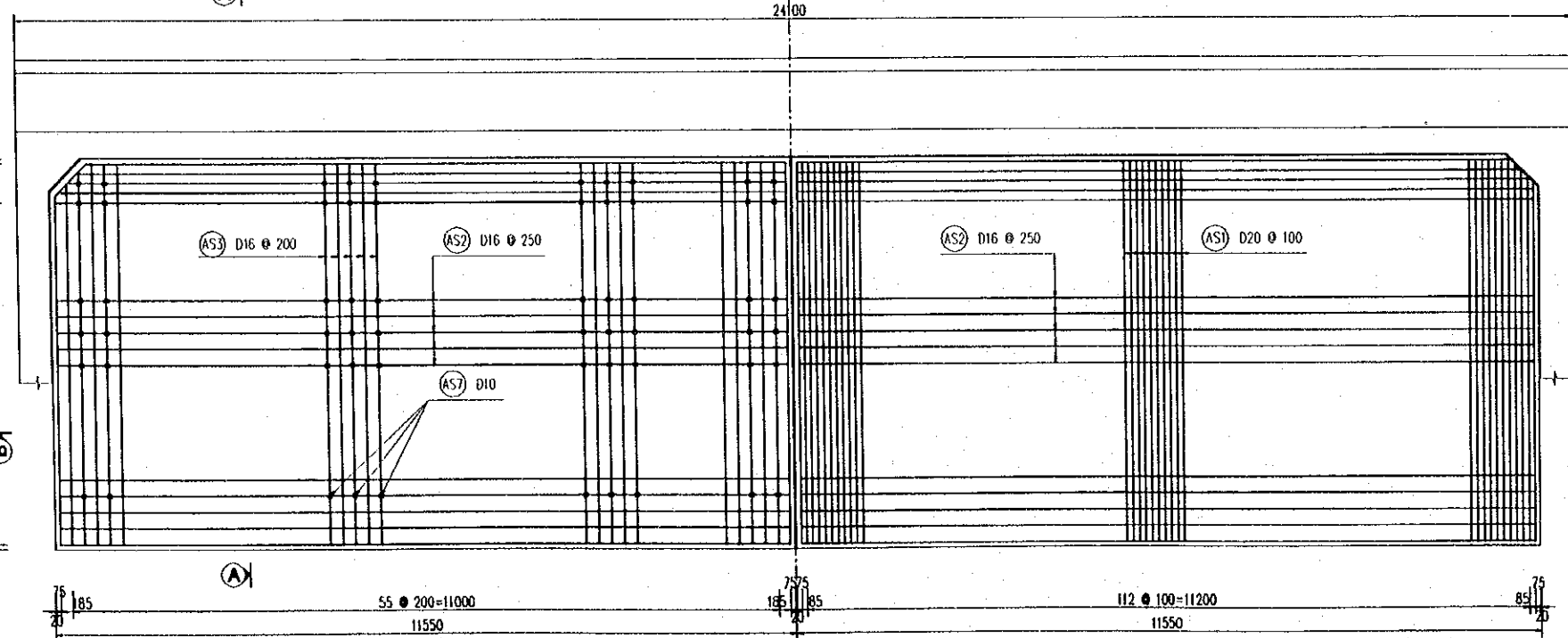


HALF SECTION C - C

(SCALE 1:100)

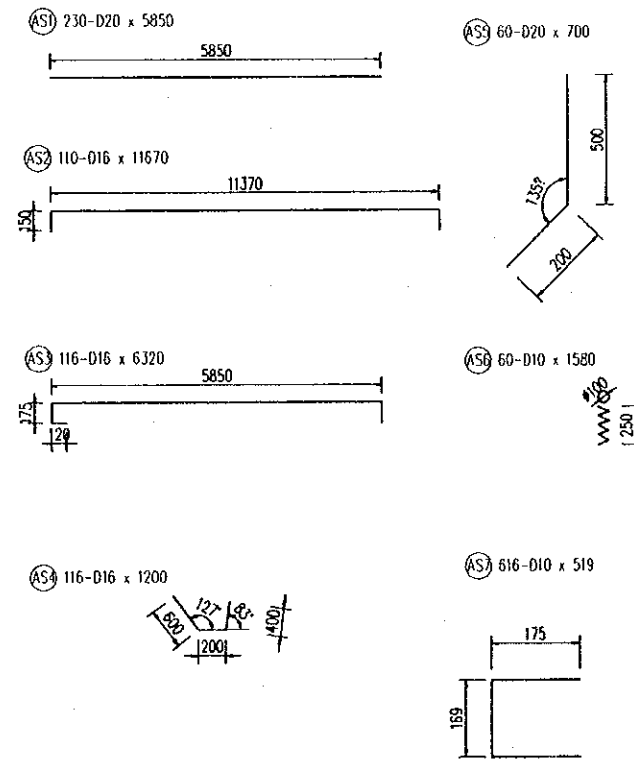
HALF SECTION D - D

(SCALE 1:100)



LIST OF REINFORCEMENT

TYPE	D (mm)	LENGTH OF BAR (mm)	U WEIGHT (kg/m)	NUMBER	WEIGHT (kg)
AS1	D20	5850	2.466	230	3318.0
AS2	D16	11670	1.578	110	2025.7
AS3	D16	6320	1.578	116	1156.9
AS4	D16	1200	1.578	116	219.7
AS5	D20	700	2.466	60	103.6
AS6	D10	1580	0.617	60	58.5
AS7	D10	519	0.617	616	197.3
	D10				255.8 kg
	D16				3402.3 kg
	D20				3421.6 kg
	TOTAL :				7079.7 kg
	CONCRETE :				45.1 m³
	LEAN CONCRETE :				13.1 m³
	ASPHALTIC JOINT FILLER :				0.42 m³





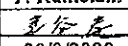
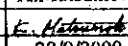
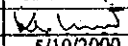
NOTES:

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P1\BR1\0030

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 KOBEI CO.,LTD.	NAME: T. Kametani SIGNATURE: [Signature] DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE: [Signature] DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: [Signature] DATE: 5/10/2000	LARGE TRA VA BRIDGE ABUTMENTS DETAILS OF APPROACH SLAB	P1\BR1\0390

QUANTITY TABLE OF BRIDGE

Item		UNIT	ABUTMENT A1	ABUTMENT A2	Total	
A - ABUTMENT						
PILES	NUMBER OF PILES	pile	17	17	34	
	TOTAL LENGTH OF BORED ϕ 1500	m	1190.0	1190.0	2380.0	
	CONCRETE CLASS D	m ³	2102.9	2102.9	4205.8	
	REINFORCEMENT	28	kg	1624.0	1624.0	3248.0
		25	kg	3509.8	3509.8	7019.6
		22	kg	387.0	387.0	774.0
		16	kg	29.0	29.0	58.0
10		kg	1077.6	1077.6	2155.2	
TOTAL	kg	6627.4	6627.4	13254.8		
ABUTMENT	CONCRETE CLASS E	m ³	671.6	670.9	1342.5	
	REINFORCEMENT	25	kg	16020.6	16024.8	32045.4
		22	kg	5052.6	5051.8	10104.4
		20	kg	6814.2	6814.2	13628.4
		18	kg	802.5	802.0	1604.5
		16	kg	4813.0	4814.6	9627.6
		14	kg	2967.5	2967.5	5935.0
		10	kg	159.3	159.3	318.6
	TOTAL	kg	36629.7	36634.2	73263.9	
	BLINDING STONE	m ³	45.7	45.7	91.4	
	LEAN CONCRETE CLASS G	m ³	22.8	22.8	45.7	
EXCAVATION	m ³	420.6	567.8	988.4		
BACK FILL	m ³	97.1	144.5	241.6		
B - APPROACH SLAB						
	CONCRETE CLASS E	m ³	45.1	45.1	90.2	
	LEAN CONCRETE CLASS G	m ³	13.1	13.1	26.3	
	FORM	m ²	20.4	20.4	40.8	
	ASPHANTIC JOINT FILLTER T=20	m ³	0.4	0.4	0.8	
	REINFORCEMENT	20	kg	3421.6	3421.6	6843.2
		16	kg	3402.3	3402.3	6804.6
		10	kg	255.8	255.8	511.6
		TOTAL	kg	7158.7	7158.7	14317.4
C - SLOPE PROTECTION						
SIDE SLOPE	STONE MANSORY T=300mm	m ³	829.7	860.5	1690.2	
	BLINDING AGGREGATE T=100mm	m ³	276.2	286.8	563.0	
	GEOTEXTILE	m ²	831.0	955.0	1786.0	
	PVC PILE Φ 50mm DIA. L=1000mm	m	75.0	76.0	151.0	
FOOTING	LENGTH OF FOOTING	m	149.9	156.1	306.0	
	WOODEN PILE L=3.0m	m	8996.0	9094.0	18090.0	
	BLINDING	m ³	26.0	12.1	38.1	
	STONE MANSORY	m ³	40.0	54.8	94.8	
	EXCAVATION	m ³	648.0	655.0	1303.0	
BACK FILL	m ³	450.0	455.0	905.0		

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: T. Kametani SIGNATURE:  DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE:  DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE:  DATE: 5/10/2000	LARGE TRA VA BRIDGE ABUTMENT QUANTITY TABLE OF ABUTMENT	P1/BR1/0400

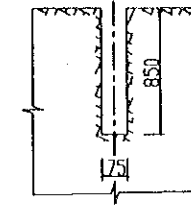
IV. PIERS

GENERAL VIEW OF PIER P1,P2,P3,P4&P7

SCALE 1:200

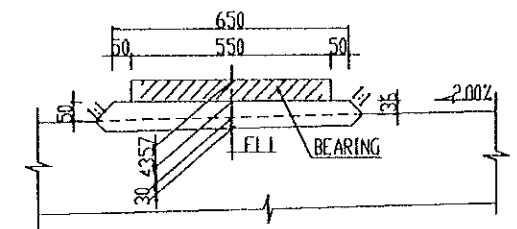
DETAIL OF ANCHOR HOLE

SCALE 1:50

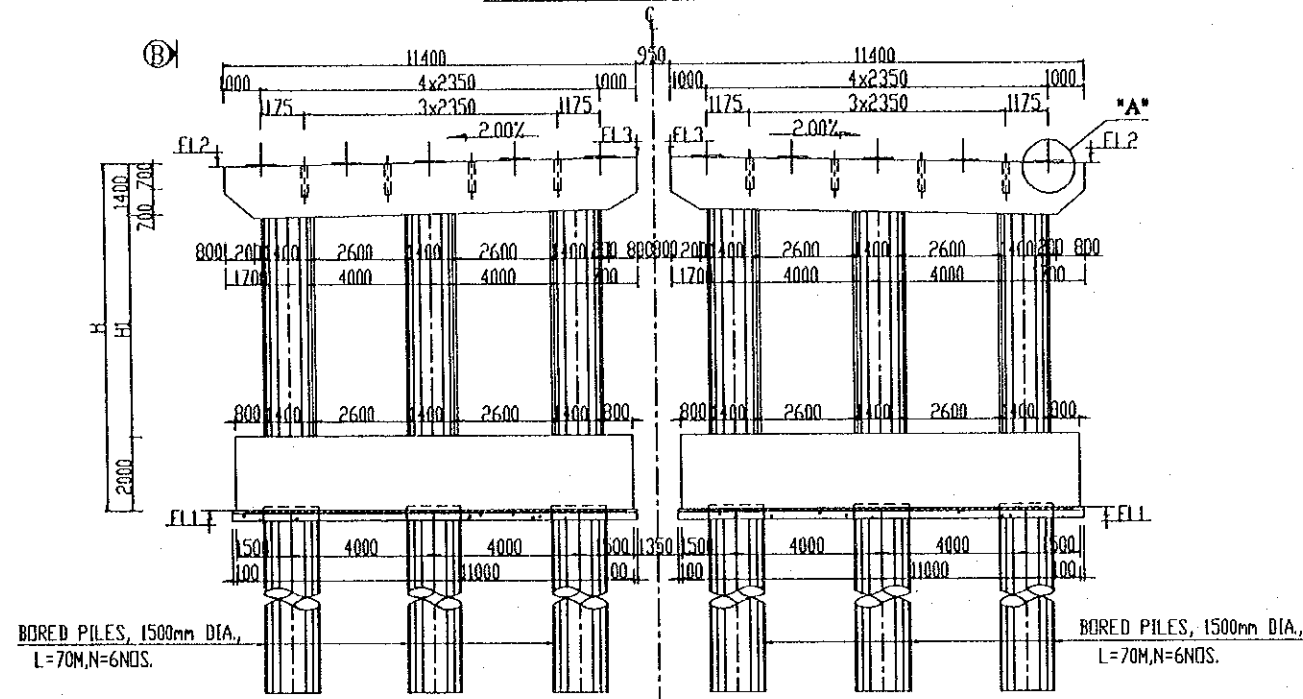


DETAIL "A"

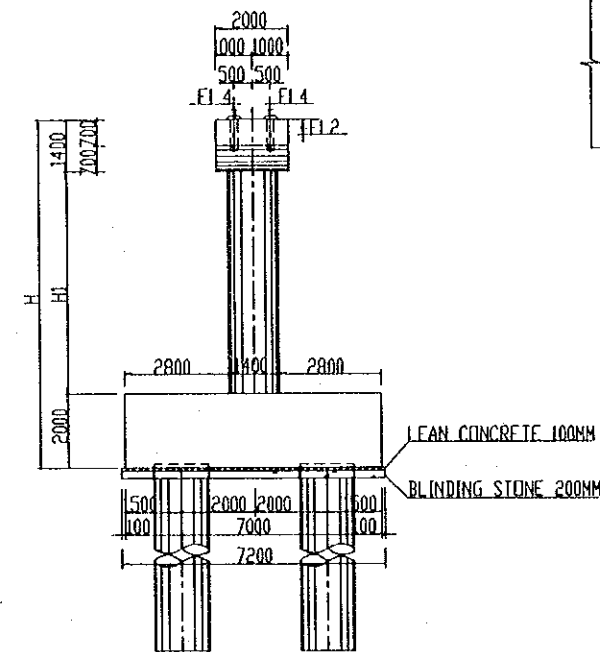
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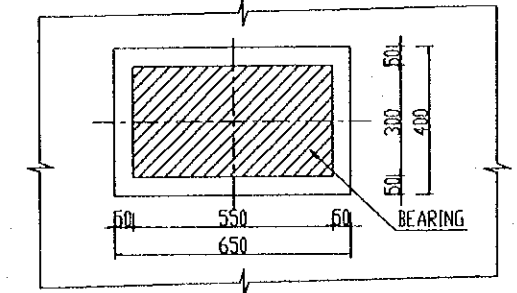
PIER ELEVATION



B-B



PLAN



	P1	P2	P3	P4	P7
H	9400	8900	10400	9400	8900
H1	6000	5500	7000	6000	5500

PILE CAP-PLAN

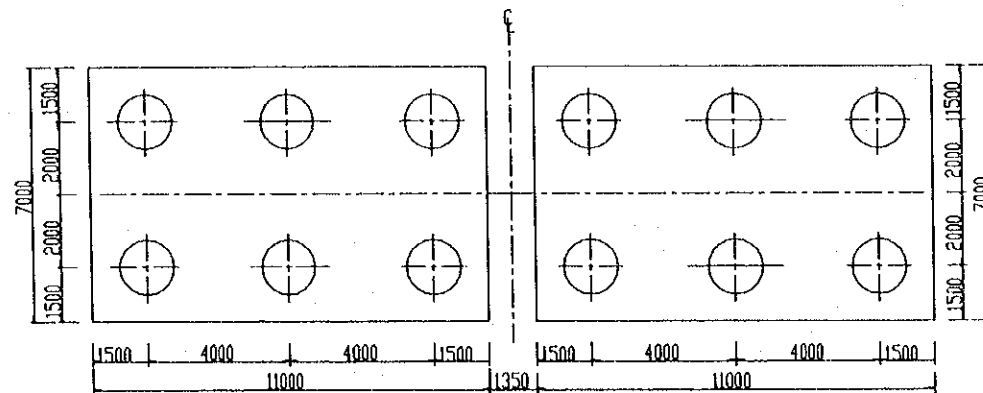
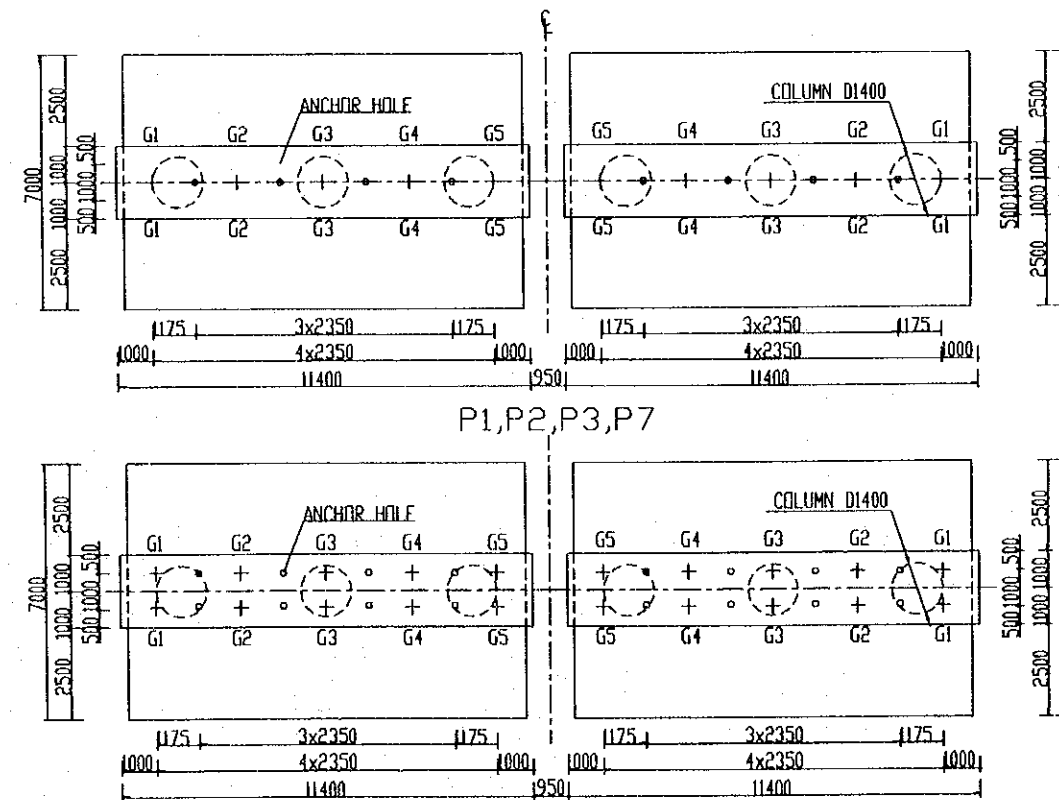


TABLE OF ELEVATIONS

PIERS	EL1	EL2	EL3	EL4				
				G1	G2	G3	G4	G5
P1	-1.95	+7.34	+7.57	+7.52	+7.45	+7.38	+7.32	+7.26
P2	-1.03	+7.76	+7.99	+7.94	+7.87	+7.8	+7.74	+7.68
P3	-2.37	+7.92	+8.15	+8.1	+8.04	+7.96	+7.91	+7.84
P4	-1.45	+7.84	+8.07	+8.02	+7.95	+7.88	+7.82	+7.76
		+7.84	+8.06	+8.01	+7.95	+7.87	+7.82	+7.75
P7	-2.30	+6.49	+6.72	+6.67	+6.61	+6.53	+6.48	+6.41

BEARING SEAT- PLAN



P4

NOTES

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR1/0030.

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: T. Kametani SIGNATURE: [Signature] DATE: 20/9/2000	K. Matsumoto [Signature] 29/9/2000	K. Enomoto [Signature] 5/10/2000	LARGE TRA VA BRIDGE PIERS PIER P1-P4&P7 GENERAL VIEW	P1/BR1/0410

GENERAL VIEW OF PIER P5&P6

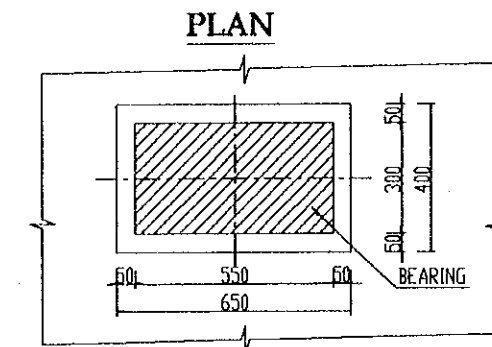
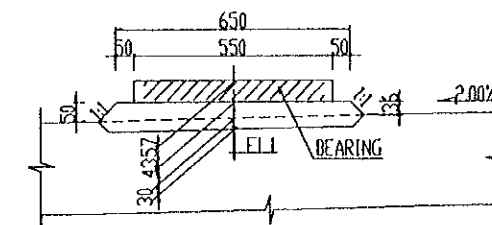
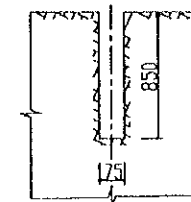
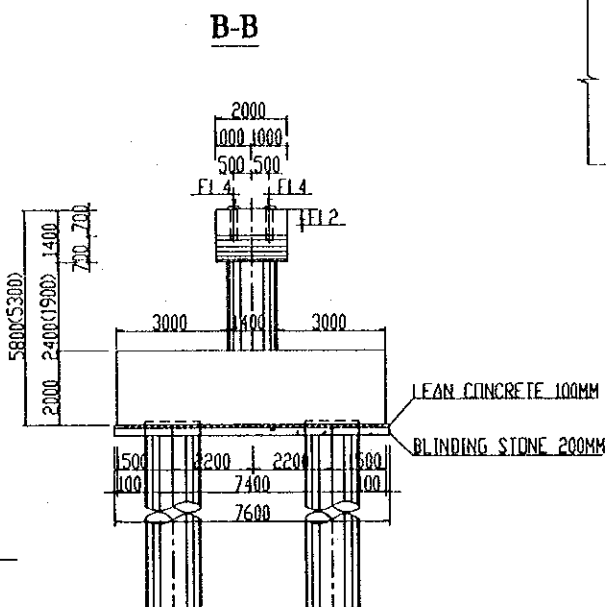
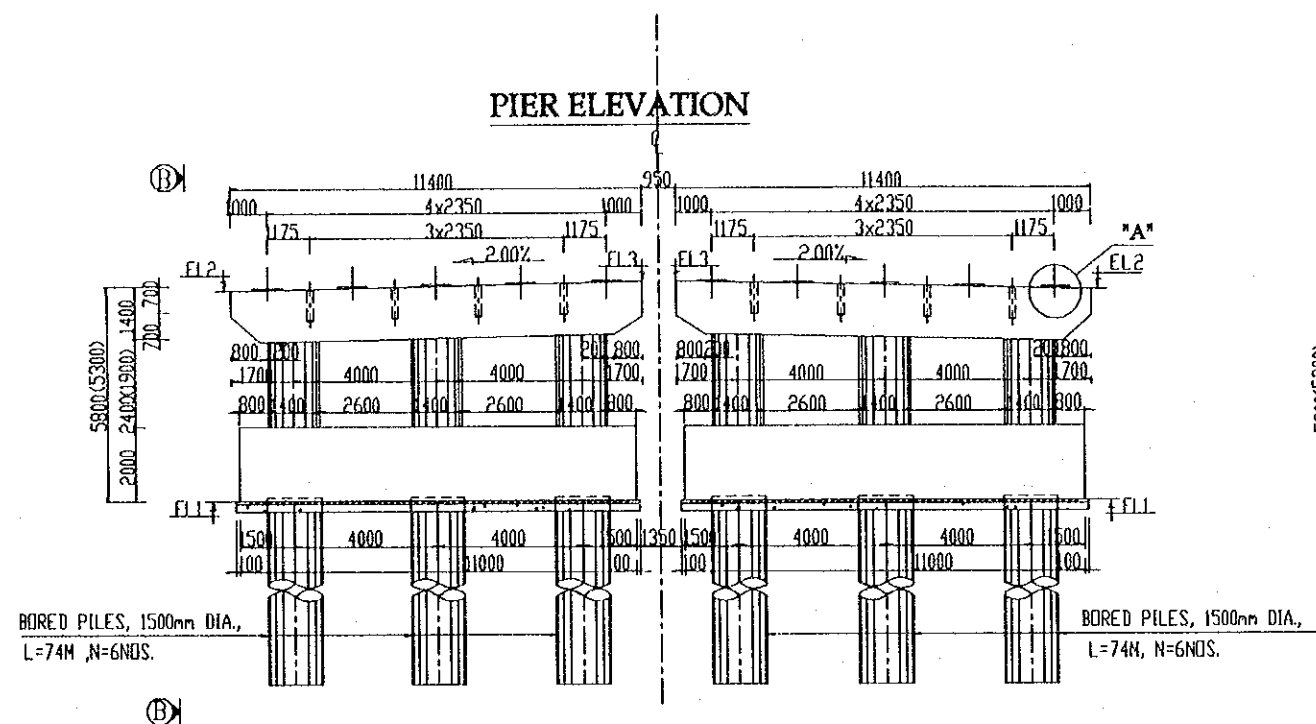
SCALE 1:200

DETAIL OF ANCHOR HOLE

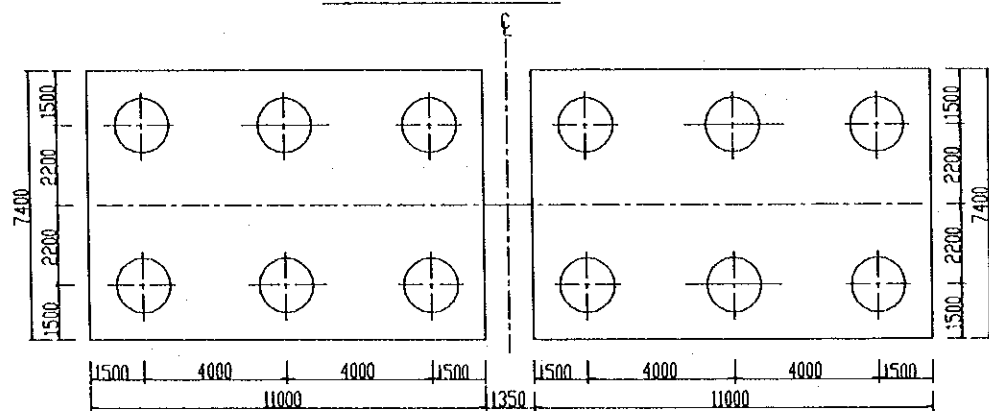
SCALE 1:50

DETAIL "A"

SCALE 1:20



PILE CAP-PLAN



BEARING SEAT- PLAN

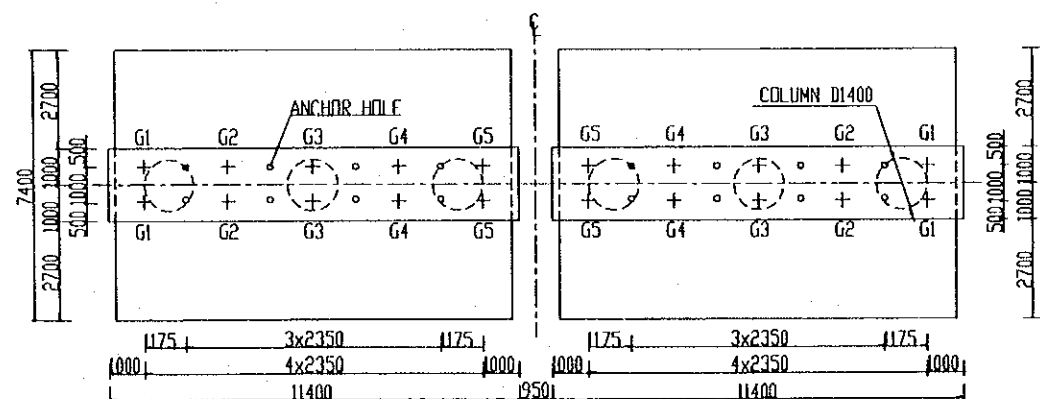


TABLE OF ELEVATIONS

PIERS	EL1	EL2	EL3	EL4				
				G1	G2	G3	G4	G5
P5	+1.81	+7.5	+7.72	+7.67	+7.61	+7.53	+7.48	+7.41
P6	+1.75	+6.94	+7.16	+7.11	+7.05	+6.97	+6.92	+6.85

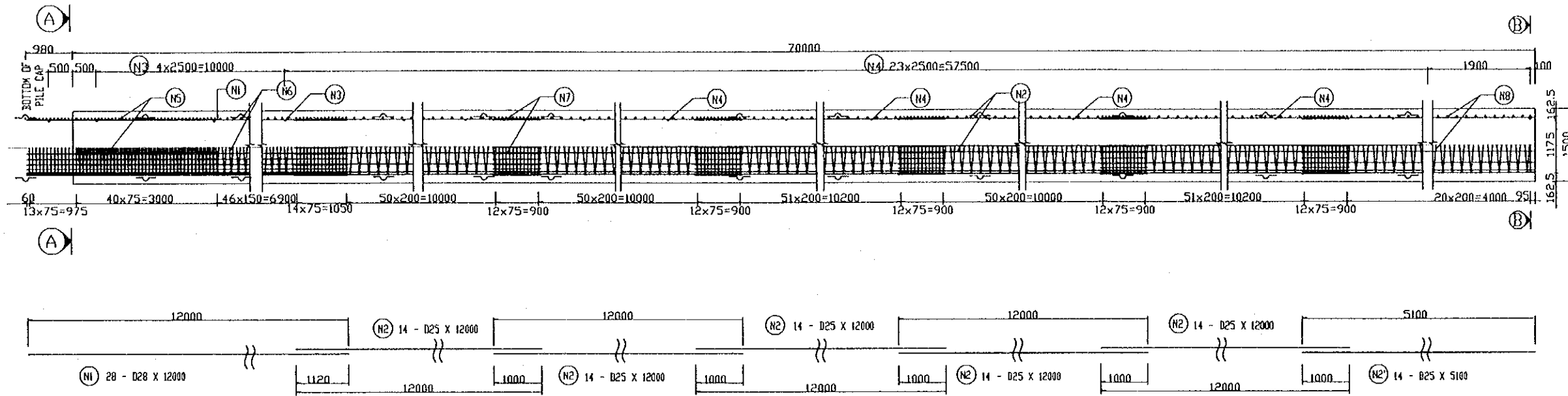
NOTES

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR1/0030.
() INSIDE NUMERICAL VALUE SHOWS P5

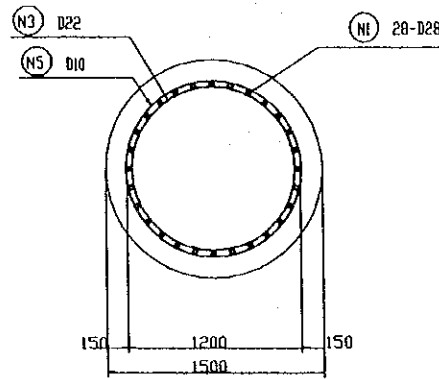
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KORI CO., LTD.	T. Kametani	K. Matsumoto	K. Enomoto	LARGE TRA VA BRIDGE PIERS PIER P5&P6 GENERAL VIEW	P1/BR1/0420
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

BORED CAST IN-SITU PILE DETAILS FOR PIERS P1~P4 & P7

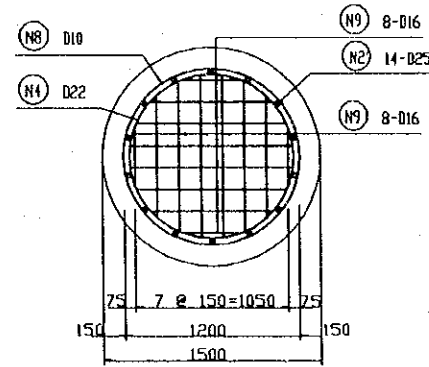
(SCALE 1/100)



SECTION A-A
(SCALE 1/50)

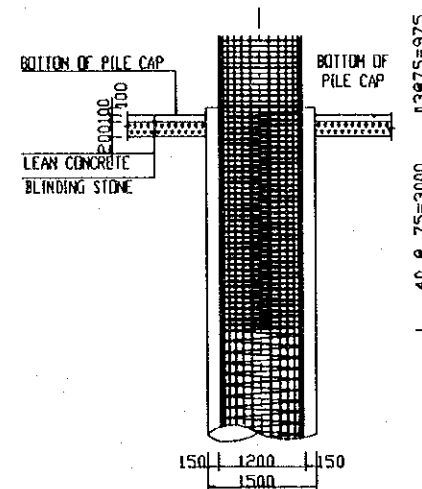


SECTION B-B
(SCALE 1/50)



DETAIL OF CONCRETE PILE HEAD

(SCALE 1/100)

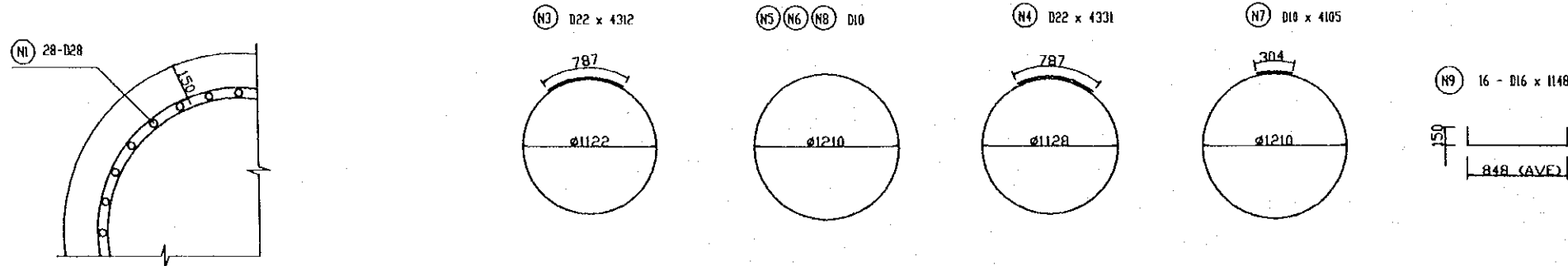


MATERIAL OF PILE

TYPE	D (mm)	LENGTH OF BAR (mm)	U.WEIGHT (kg/m)	NUMBER	WEIGHT (kg)	CONCRETE VOLUME (m ³)
N1	D28	12000	4.834	28	1624.0	123.7
N2	D25	12000	3.853	70	3234.0	
N2'	D25	5100	3.853	14	275.8	
N3	D22	4312	2.984	6	77.4	
N4	D22	4331	2.984	24	309.6	
N5	D10	152053	0.617	1	93.8	
N6	D10	171861	0.617	1	108.0	
N7	D10	4105	0.617	94	237.8	
N8	D10	1033961	0.617	1	638.0	
N9	D16	1148	1.578	16	29.0	
	D10		1077.6		KG	
	D16		29.0		KG	
	D22		307.9		KG	
	D25		3509.8		KG	
	D28		1624.0		KG	
TOTAL			6627.4		KG	

DETAIL OF COVERING

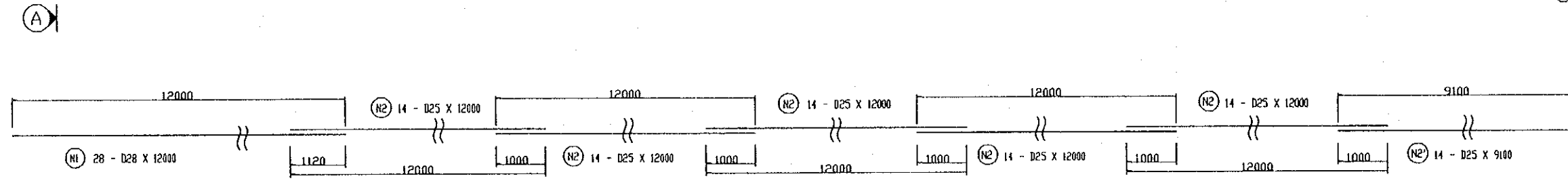
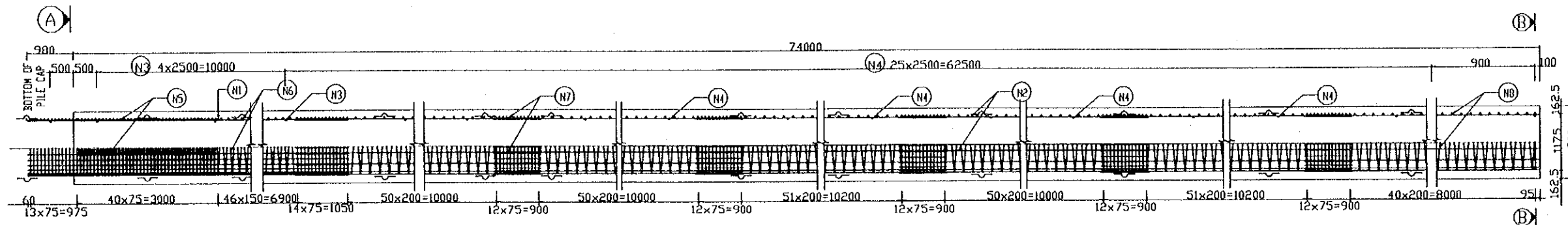
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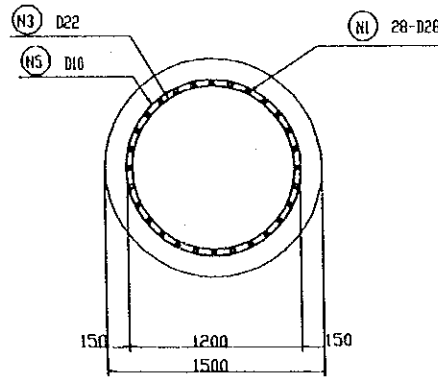
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NK NIPPON KOEI CO.,LTD.	T. Kametani	K. Matsumoto	K. Enomoto	LARGE TRA VA BRIDGE PIERS P1~P4&P7 BORED PILE DETAILS-L=70m	P1/BR1/0430
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

BORED CAST IN-SITU PILE DETAILS FOR PIERS P5 & P6

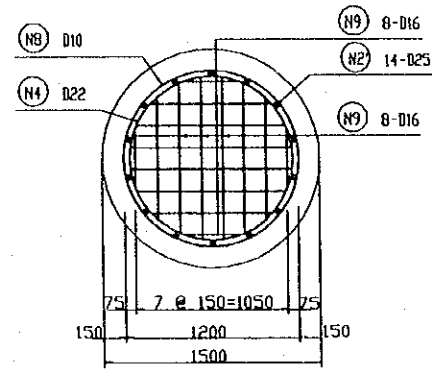
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SECTION A-A
(SCALE 1:50)

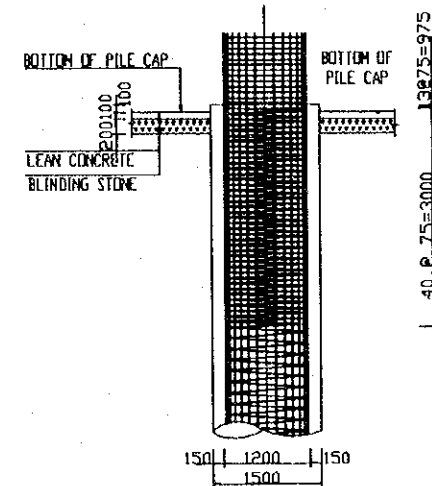


SECTION B-B
(SCALE 1:50)



DETAIL OF CONCRETE PILE HEAD

(SCALE 1:100)

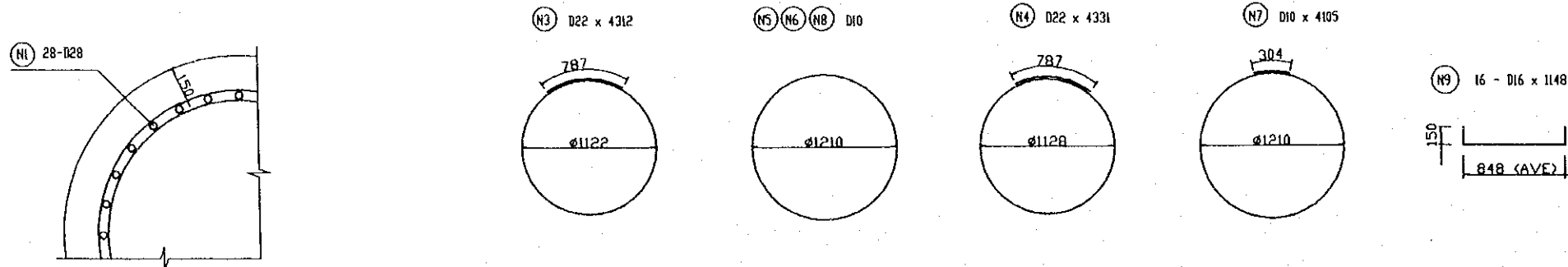


MATERIAL OF PILE

TYPE	D (mm)	LENGTH OF BAR (mm)	UWEIGHT (kg/m)	NUMBER	WEIGHT (kg)	CONCRETE VOLUME (m ³)
N1	D28	12000	4.834	28	1624.0	130.8
N2	D25	12000	3.853	70	3234.0	
N2'	D25	9100	3.853	14	491.4	
N3	D22	4312	2.984	6	77.4	
N4	D22	4331	2.984	24	309.6	
N5	D10	152053	0.617	1	93.8	
N6	D10	174861	0.617	1	108.0	
N7	D10	4105	0.617	94	237.8	
N8	D10	1109988	0.617	1	685.0	
N9	D16	1148	1.578	16	29.0	
					D10	1124.6 KG
					D16	29.0 KG
					D22	387.0 KG
					D25	3725.4 KG
					D28	1624.0 KG
					TOTAL	6890.0 KG

DETAIL OF COVERING

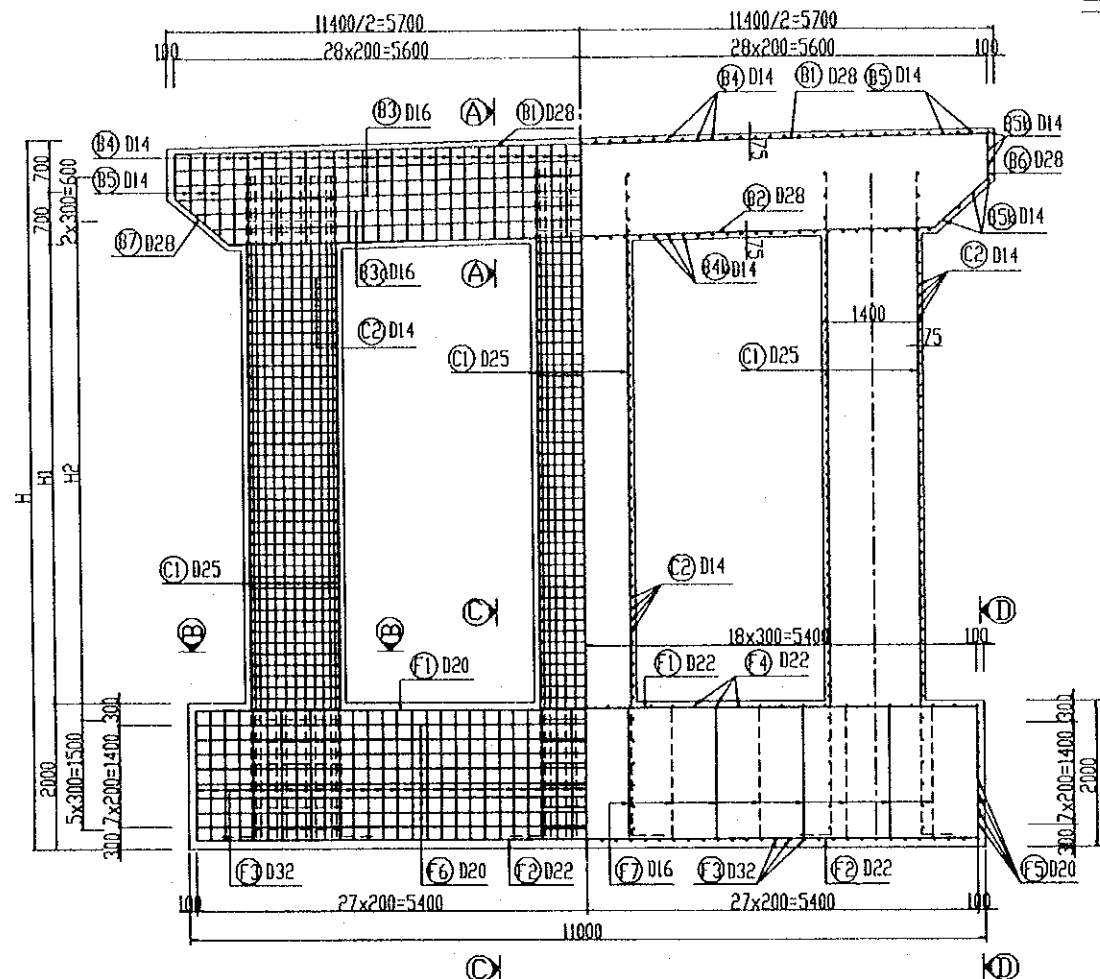
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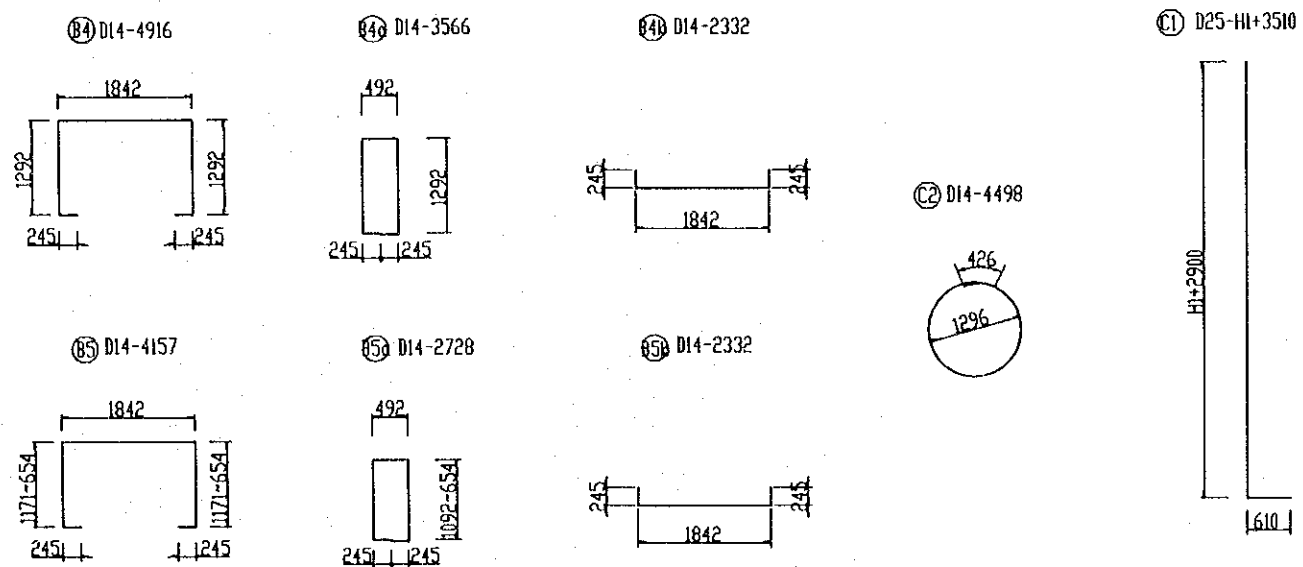
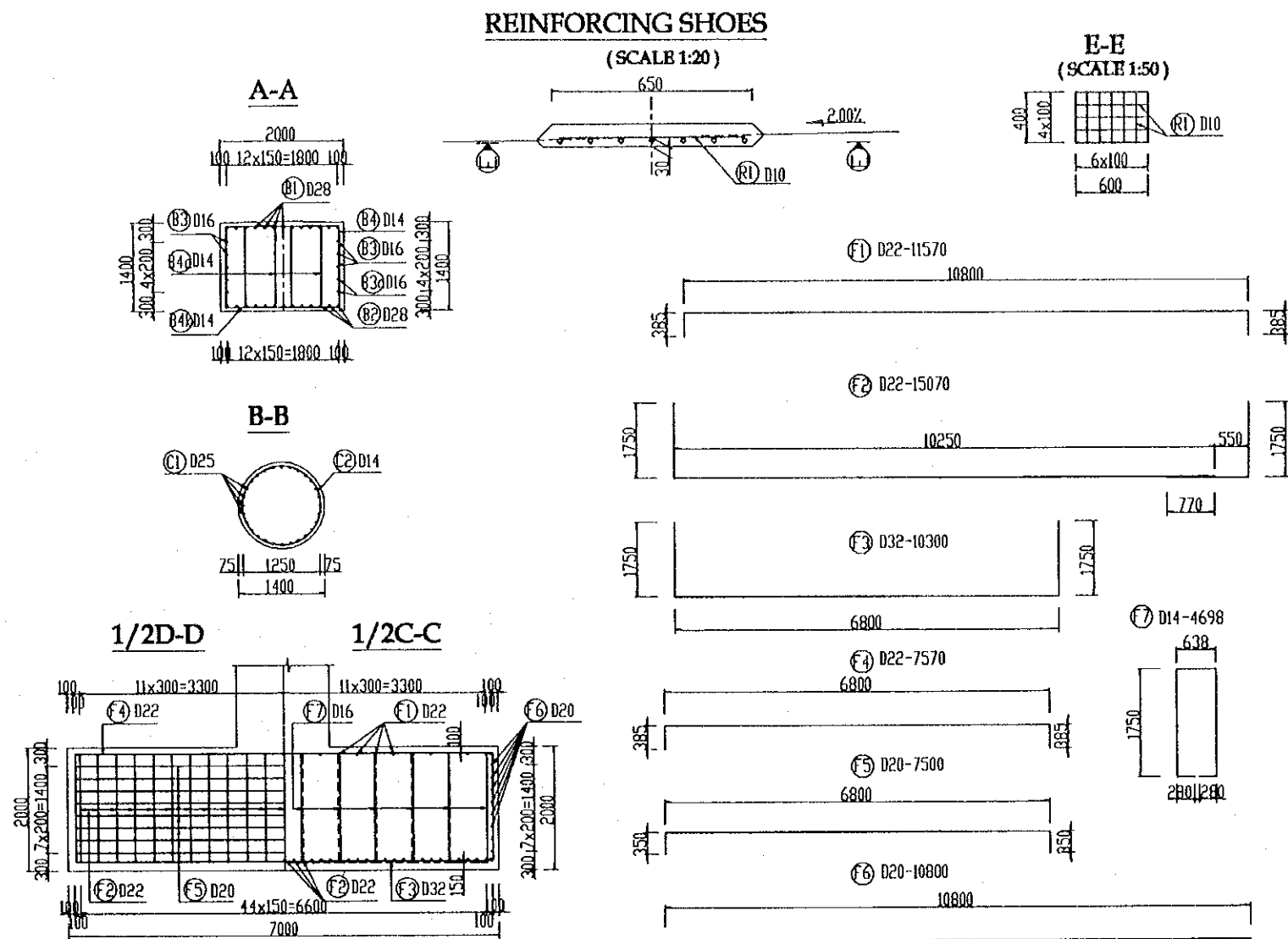
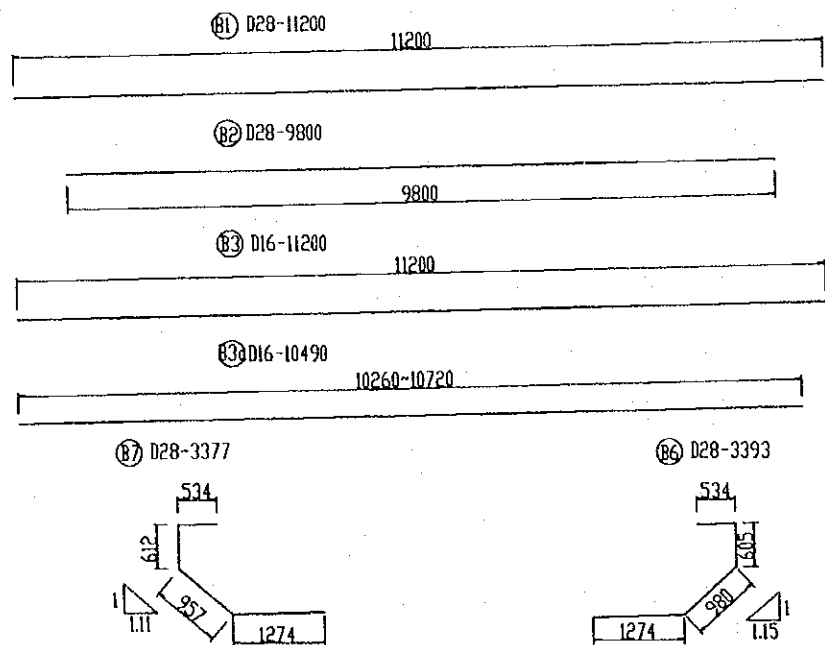
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NK NIPPON KOEI CO.,LTD.	T. Kametani	K. Matsumoto	K. Enomoto	LARGE TRA VA BRIDGE PIERS P5&P6 BORED PILE DETAILS-L=74m	P1/BR1/0440
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

BAR ARRANGEMENT OF PIER

(SCALE 1:100)



	P1,P4	P2,P7	P3
H	9400	8900	10400
H1	6000	5500	7000
H2	45x150 =6750	42x150 =6300	52x150 =7800



NOTE
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.P1/BRI/0030

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.	T. Kametani	K. Matsumoto	K. Enomoto	LARGE TRA VA BRIDGE PIERS PIER P1-P4&P7 REINFORCEMENT-SHEET1	P1/BRI/0450
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

LIST OF REINFORCEMENT(P1)
(FOR ONE DIRECTION)

DETAIL	NO	DIAMETER (mm)	LENGTH (mm)	QUANTITY	UNIT WEIGHT (kg/m)	WEIGHT (kg)
PIER CAP	R1	10	5800	5	0.617	17.9
	B1	28	11200	13	4.834	703.8
	B2	28	9800	13	4.834	615.9
	B3	16	11200	6	1.578	106.0
	B3a	16	10490	4	1.578	66.2
	B4	14	4916	49	1.208	291.0
	B4a	14	3566	98	1.208	422.2
	B4b	14	2332	49	1.208	138.0
	B5	14	4157	6	1.208	30.1
	B5a	14	2728	12	1.208	39.5
	B5b	14	2332	6	1.208	16.9
	B6	28	3393	13	4.834	213.2
	B7	28	3377	13	4.834	212.2
	COLUMN	C1	25	9510	84	3.853
C2		14	4498	159	1.208	863.9
FOOTING	F1	22	11570	25	2.984	863.1
	F2	22	15070	47	2.984	2113.5
	F3	32	10300	55	6.313	3576.3
	F4	22	7570	37	2.984	835.8
	F5	20	7500	16	2.466	295.9
	F6	20	10800	16	2.466	426.1
	F7	16	4698	94	1.578	696.9
TOTAL	D10		17.9 (kg)			
	D14		1801.7 (kg)			
	D16		869.1 (kg)			
	D20		722.0 (kg)			
	D22		3812.4 (kg)			
	D25		3077.9 (kg)			
	D28		1745.1 (kg)			
	D32		3576.3 (kg)			
TOTAL			15622.6 (kg)			

LIST OF REINFORCEMENT(P2,P7)
(FOR ONE DIRECTION)




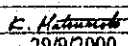
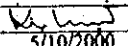
DETAIL	NO	DIAMETER (mm)	LENGTH (mm)	QUANTITY	UNIT WEIGHT (kg/m)	WEIGHT (kg)
PIER CAP	R1	10	5800	5	0.617	17.9
	B1	28	11200	13	4.834	703.8
	B2	28	9800	13	4.834	615.9
	B3	16	11200	6	1.578	106.0
	B3a	16	10490	4	1.578	66.2
	B4	14	4916	49	1.208	291.0
	B4a	14	3566	98	1.208	422.2
	B4b	14	2332	49	1.208	138.0
	B5	14	4157	6	1.208	30.1
	B5a	14	2728	12	1.208	39.5
	B5b	14	2332	6	1.208	16.9
	B6	28	3393	13	4.834	213.2
	B7	28	3377	13	4.834	212.2
	COLUMN	C1	25	9010	84	3.853
C2		14	4498	150	1.208	815.0
FOOTING	F1	22	11570	25	2.984	863.1
	F2	22	15070	47	2.984	2113.5
	F3	32	10300	55	6.313	3576.3
	F4	22	7570	37	2.984	835.8
	F5	20	7500	16	2.466	295.9
	F6	20	10800	16	2.466	426.1
	F7	16	4698	94	1.578	696.9
TOTAL	D10		17.9 (kg)			
	D14		1752.8 (kg)			
	D16		869.1 (kg)			
	D20		722.0 (kg)			
	D22		3812.4 (kg)			
	D25		2916.1 (kg)			
	D28		1745.1 (kg)			
	D32		3576.3 (kg)			
TOTAL			15411.8 (kg)			

LIST OF REINFORCEMENT(P3)
(FOR ONE DIRECTION)

DETAIL	NO	DIAMETER (mm)	LENGTH (mm)	QUANTITY	UNIT WEIGHT (kg/m)	WEIGHT (kg)
PIER CAP	R1	10	5800	5	0.617	17.9
	B1	28	11200	13	4.834	703.8
	B2	28	9800	13	4.834	615.9
	B3	16	11200	6	1.578	106.0
	B3a	16	10490	4	1.578	66.2
	B4	14	4916	49	1.208	291.0
	B4a	14	3566	98	1.208	422.2
	B4b	14	2332	49	1.208	138.0
	B5	14	4157	6	1.208	30.1
	B5a	14	2728	12	1.208	39.5
	B5b	14	2332	6	1.208	16.9
	B6	28	3393	13	4.834	213.2
	B7	28	3377	13	4.834	212.2
	COLUMN	C1	25	10510	84	3.853
C2		14	4498	180	1.208	978.0
FOOTING	F1	22	11570	25	2.984	863.1
	F2	22	15070	47	2.984	2113.5
	F3	32	10300	55	6.313	3576.3
	F4	22	7570	37	2.984	835.8
	F5	20	7500	16	2.466	295.9
	F6	20	10800	16	2.466	426.1
	F7	16	4698	94	1.578	696.9
TOTAL	D10		17.9 (kg)			
	D14		1915.8 (kg)			
	D16		869.1 (kg)			
	D20		722.0 (kg)			
	D22		3812.4 (kg)			
	D25		3401.6 (kg)			
	D28		1745.1 (kg)			
	D32		3576.3 (kg)			
TOTAL			16060.3 (kg)			

LIST OF REINFORCEMENT(P4)
(FOR ONE DIRECTION)

DETAIL	NO	DIAMETER (mm)	LENGTH (mm)	QUANTITY	UNIT WEIGHT (kg/m)	WEIGHT (kg)
PIER CAP	R1	10	5800	10	0.617	35.8
	B1	28	11200	13	4.834	703.8
	B2	28	9800	13	4.834	615.9
	B3	16	11200	6	1.578	106.0
	B3a	16	10490	4	1.578	66.2
	B4	14	4916	49	1.208	291.0
	B4a	14	3566	98	1.208	422.2
	B4b	14	2332	49	1.208	138.0
	B5	14	4157	6	1.208	30.1
	B5a	14	2728	12	1.208	39.5
	B5b	14	2332	6	1.208	16.9
	B6	28	3393	13	4.834	213.2
	B7	28	3377	13	4.834	212.2
	COLUMN	C1	25	9510	84	3.853
C2		14	4498	159	1.208	863.9
FOOTING	F1	22	11570	25	2.984	863.1
	F2	22	15070	47	2.984	2113.5
	F3	32	10300	55	6.313	3576.3
	F4	22	7570	37	2.984	835.8
	F5	20	7500	16	2.466	295.9
	F6	20	10800	16	2.466	426.1
	F7	16	4698	94	1.578	696.9
TOTAL	D10		35.8 (kg)			
	D14		1801.7 (kg)			
	D16		869.1 (kg)			
	D20		722.0 (kg)			
	D22		3812.4 (kg)			
	D25		3077.9 (kg)			
	D28		1745.1 (kg)			
	D32		3576.3 (kg)			
TOTAL			15640.5 (kg)			


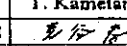
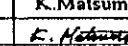
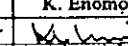
PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY  JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM  NIPPON KOEI CO.,LTD.	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE LARGE TRA VA BRIDGE PIERS PIER P1-P4&P7 REINFORCEMENT-SHEET2	DWG NO. P1/BR1/0460	
				NAME	T. Kametani	K. Matsumoto			K. Enomoto
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

LIST OF REINFORCEMENT(P5)
(FOR ONE DIRECTION)

DETAIL	NO	DIAMETER	LENGTH	QUANTITY	UNIT WEIGH	WEIGHT
		(mm)	(mm)		(kg/m)	(kg)
PIER CAP	R1	10	5800	10	0.617	35.8
	B1	28	11200	13	4.834	703.8
	B2	28	9800	13	4.834	615.9
	B3	16	11200	6	1.578	106.0
	B3a	16	10490	4	1.578	66.2
	B4	14	4916	49	1.208	291.0
	B4a	14	3566	98	1.208	422.2
	B4b	14	2332	49	1.208	138.0
	B5	14	4157	6	1.208	30.1
	B5a	14	2728	12	1.208	39.5
	B5b	14	2332	6	1.208	16.9
	B6	28	3393	13	4.834	213.2
	B7	28	3377	13	4.834	212.2
	COLUMN	C1	25	5910	84	3.853
C2		14	4498	87	1.208	472.7
FOOTING	F1	22	11570	25	2.984	863.1
	F2	22	15070	49	2.984	2203.5
	F3	32	10700	55	6.313	3715.2
	F4	22	7970	37	2.984	880.0
	F5	20	7980	16	2.466	311.7
	F6	20	10800	16	2.466	426.1
	F7	16	4698	94	1.578	696.9
TOTAL	D10				35.8 (kg)	
	D14				1410.5 (kg)	
	D16				869.1 (kg)	
	D20				737.8 (kg)	
	D22				3946.6 (kg)	
	D25				1912.8 (kg)	
	D28				1745.1 (kg)	
	D32				3715.2 (kg)	
TOTAL					14372.9 (kg)	



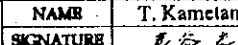
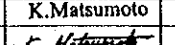
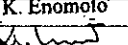
LIST OF REINFORCEMENT(P6)
(FOR ONE DIRECTION)

DETAIL	NO	DIAMETER	LENGTH	QUANTITY	UNIT WEIGH	WEIGHT
		(mm)	(mm)		(kg/m)	(kg)
PIER CAP	R1	10	5800	10	0.617	35.8
	B1	28	11200	13	4.834	703.8
	B2	28	9800	13	4.834	615.9
	B3	16	11200	6	1.578	106.0
	B3a	16	10490	4	1.578	66.2
	B4	14	4916	49	1.208	291.0
	B4a	14	3566	98	1.208	422.2
	B4b	14	2332	49	1.208	138.0
	B5	14	4157	6	1.208	30.1
	B5a	14	2728	12	1.208	39.5
	B5b	14	2332	6	1.208	16.9
	B6	28	3393	13	4.834	213.2
	B7	28	3377	13	4.834	212.2
	COLUMN	C1	25	5410	84	3.853
C2		14	4498	78	1.208	423.8
FOOTING	F1	22	11570	25	2.984	863.1
	F2	22	15070	49	2.984	2203.5
	F3	32	10700	55	6.313	3715.2
	F4	22	7970	37	2.984	880.0
	F5	20	7980	16	2.466	311.7
	F6	20	10800	16	2.466	426.1
	F7	16	4698	94	1.578	696.9
TOTAL	D10				35.8 (kg)	
	D14				1361.6 (kg)	
	D16				869.1 (kg)	
	D20				737.8 (kg)	
	D22				3946.6 (kg)	
	D25				1751.0 (kg)	
	D28				1745.1 (kg)	
	D32				3715.2 (kg)	
TOTAL					14162.1 (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.	NAME T. Kametani SIGNATURE  DATE 20/9/2000	K. Matsumoto  29/9/2000	K. Enomoto  5/10/2000	LARGE TRA VA BRIDGE PIERS PIER P5,P6 REINFORCEMENT-SHEET2	P1/BR1/0480

QUANTITY TABLE OF BRIDGE

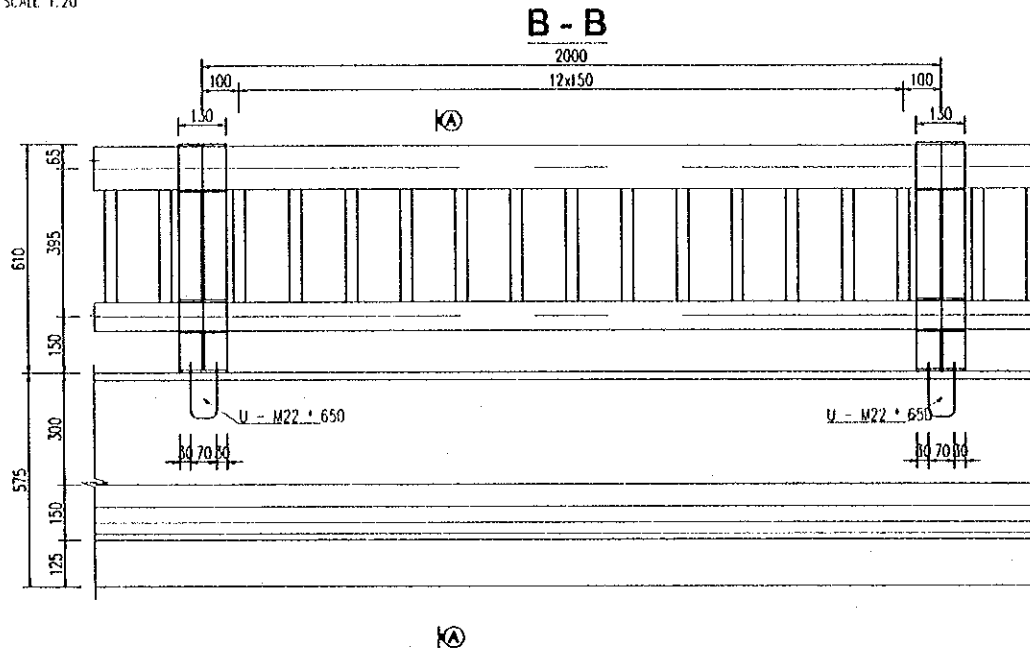
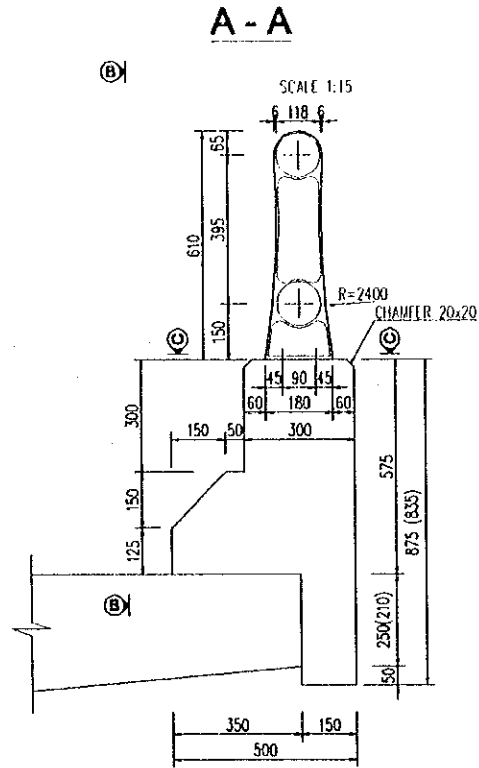
Item		UNIT	Pier 1	Pier 2	Pier 3	Pier 4	Pier 5	Pier 6	Pier 7	Sub Total	nos	Total	
PILES	NUMBER OF PILES	pile	6	6	6	6	6	6	6	42	2	84	
	TOTAL LENGTH OF BORED ϕ 1500mm	m	420.0	420.0	420.0	420.0	444.0	444.0	420.0	2,988	2	5976.0	
	CONCRETE CLASS D	m ³	742.2	742.2	742.2	742.2	781.6	781.6	742.2	5,280	2	10560.5	
	REINFORCEMENT	25	kg	4524.4	4524.4	4524.4	4524.4	4848.0	4,848.0	4524.4	32,318	2	64636.0
		22	kg	418.3	418.3	418.3	418.3	380.3	380.3	418.3	2,852	2	5704.2
		16	kg	33.4	33.4	33.4	33.4	33.4	33.4	33.4	234	2	467.6
10		kg	1154.4	1154.4	1154.4	1154.4	1084.1	1,084.1	1154.4	7,940	2	15880.4	
TOTAL	kg	6130.5	6130.5	6130.5	6130.5	7130.4	7,130.4	6130.5	44,913	2	89826.7		
PIERS	CONCRETE CLASS E	m ³	212.5	210.2	217.1	217.1	195.9	193.6	210.2	1,457	2	2913.2	
	REINFORCEMENT	32	kg	3576.3	3576.3	3576.3	3576.3	3715.2	3715.2	3576.3	25,312	2	50624.0
		28	kg	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	12,216	2	24431.7
		25	kg	3077.9	2916.1	3401.6	3077.9	1912.8	1751.0	2916.1	19,053	2	38106.8
		22	kg	3812.4	3812.4	3812.4	3812.4	3946.6	3946.6	3812.4	26,955	2	53910.7
		20	kg	722.0	722.0	722.0	722.0	737.8	737.8	722.0	5,086	2	10171.8
		16	kg	869.1	869.1	869.1	869.1	869.1	869.1	869.1	6,084	2	12167.7
		14	kg	1801.7	1752.8	1915.8	1801.7	1410.5	1361.6	1752.8	11,797	2	23593.7
		10	kg	17.9	17.9	17.9	35.8	35.8	35.8	17.9	179	2	357.9
	TOTAL	kg	15622.6	15411.8	16060.3	15640.5	14372.9	14162.1	15411.8	106,682	2	213364.2	
	BLINDING STONE	m ³	16.1	16.1	16.1	16.1			16.1	81	2	161.3	
LEAN CONCRETE CLASS G	m ³	8.1	8.1	8.1	8.1			8.1	40	2	80.6		
EXCAVATION	m ³	470.3	466.6	464.7	500.3			466.6	2,368	2	4736.8		
BACK FILL	m ³	287.2	283.6	281.8	316.5			283.6	1,453	2	2905.1		

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: T. Kametani SIGNATURE:  DATE: 20/9/2000	K. Matsumoto  29/9/2000	K. Enomoto  3/10/2000	LARGE TRA VA BRIDGE PIERS QUANTITY TABLE OF PIERS	P1/BR1/0490

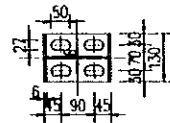
V MISCELLANEOUS

DETAIL OF PARAPET AND RAILING

SCALE 1:20



C - C

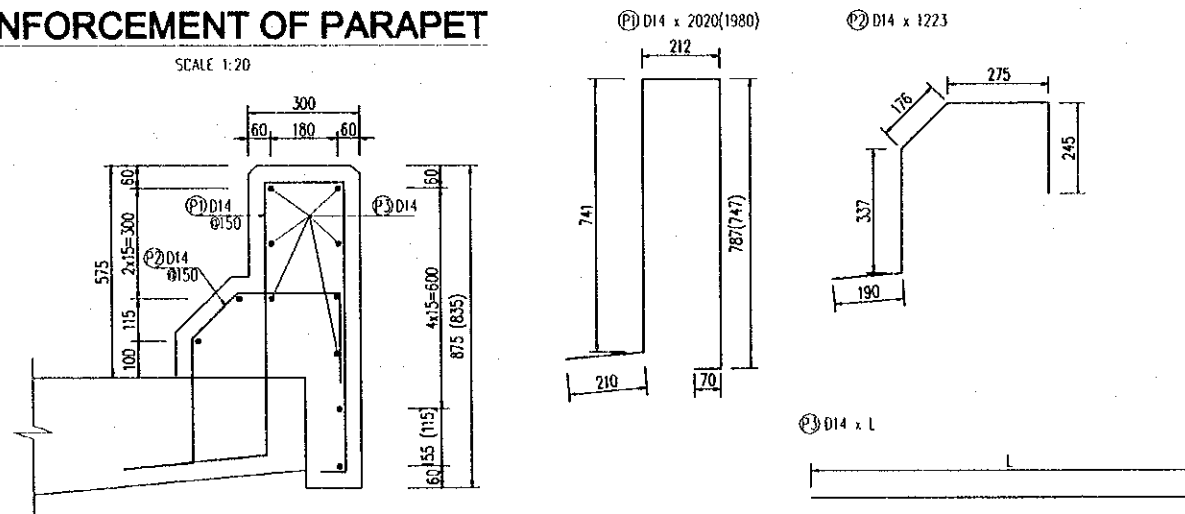


NOTES:

1. FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR1/0030
2. THE VALUES INSIDE "()" ARE FOR APPROACH BRIDGE.
3. UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANIZED FOLLOWED BY SPECIFICATION PAINT PROTECTION SYSTEM.

REINFORCEMENT OF PARAPET

SCALE 1:20



QUANTITY OF RAILING (PER 10M LONG)

ITEM	SIZE	MATERIAL	UNIT WEIGHT	QUANTITY	UNIT	WEIGHT(kg)	REMARK
POST	610*180*130	FCD-450	18.1	5	EACH	90.5	GALVANIZING
UPPER RAIL	114.3*3.51	SIK-400	19.5	10	M	195.0	
BOTTOM RAIL	76.3*2.51	SIK-400	5.77	10	M	57.7	
CONNECTION	490*300	SIK-400	2.13	1.67	EACH	3.6	
	67.5*300	SIK-400	1.4	1.67	EACH	2.3	
ANCHOR BOLT	M22. 650	SS-400	2.9	20	EACH	58.0	
VERTICAL MEMBER	F06*32*300	SS-400	2.09	65	EACH	135.85	

LIST OF REINFORCEMENT OF PARAPET (PER 10M LONG)

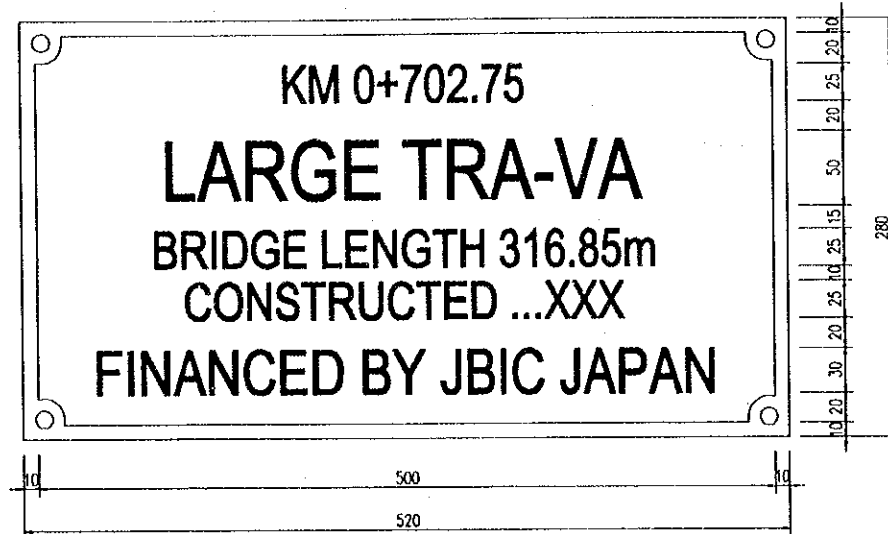
NAME	DIAMETER (mm)	LENGTH (mm)	NUMBER	U. WEIGHT (kg/m)	WEIGHT (kg)
P1	14	2020(1980)	68	1,208	165.9(162.7)
P2	14	1223	68	1,208	100.5
P3	14	10000	11	1,208	132.9
D14 CONCRETE				399.4(396.1)	kg
				2.65(2.55)	m ³

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.	T. Kametani	K. Matsumoto	K. Enomoto	LARGE TRA VA BRIDGE MISCELLANEOUS PARAPET AND RAILING DETAILS	P1/BR1/0500
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

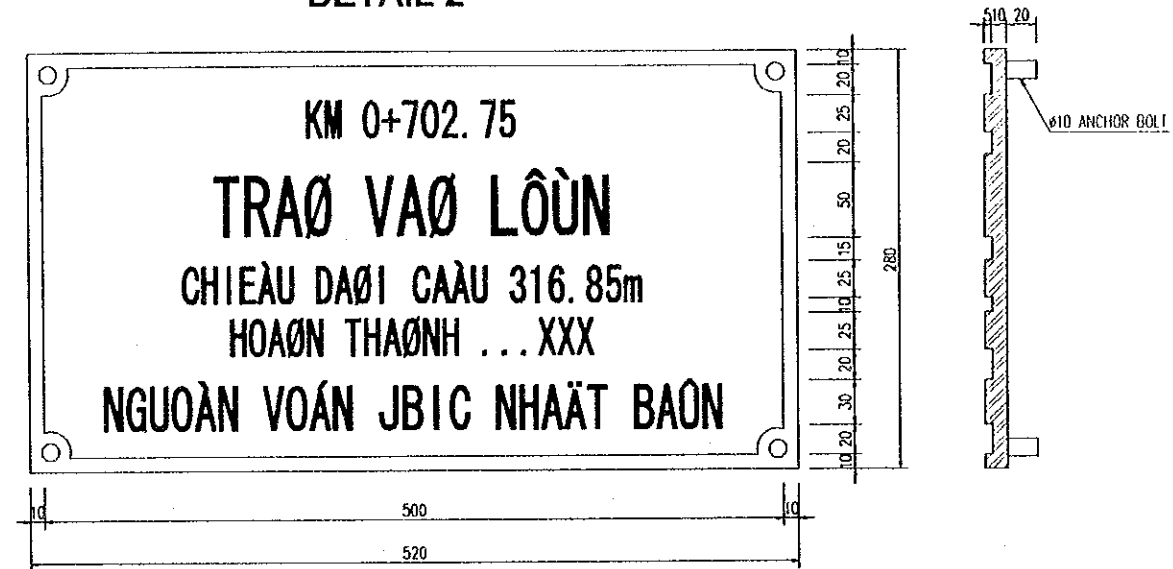
DETAIL OF BRIDGE NAME PLAQUE

SCALE 1:5

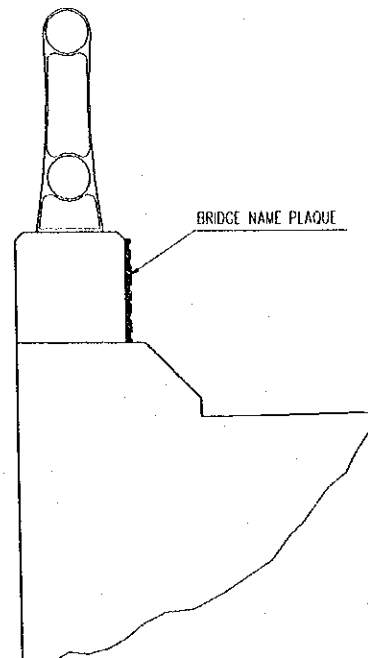
DETAIL 1



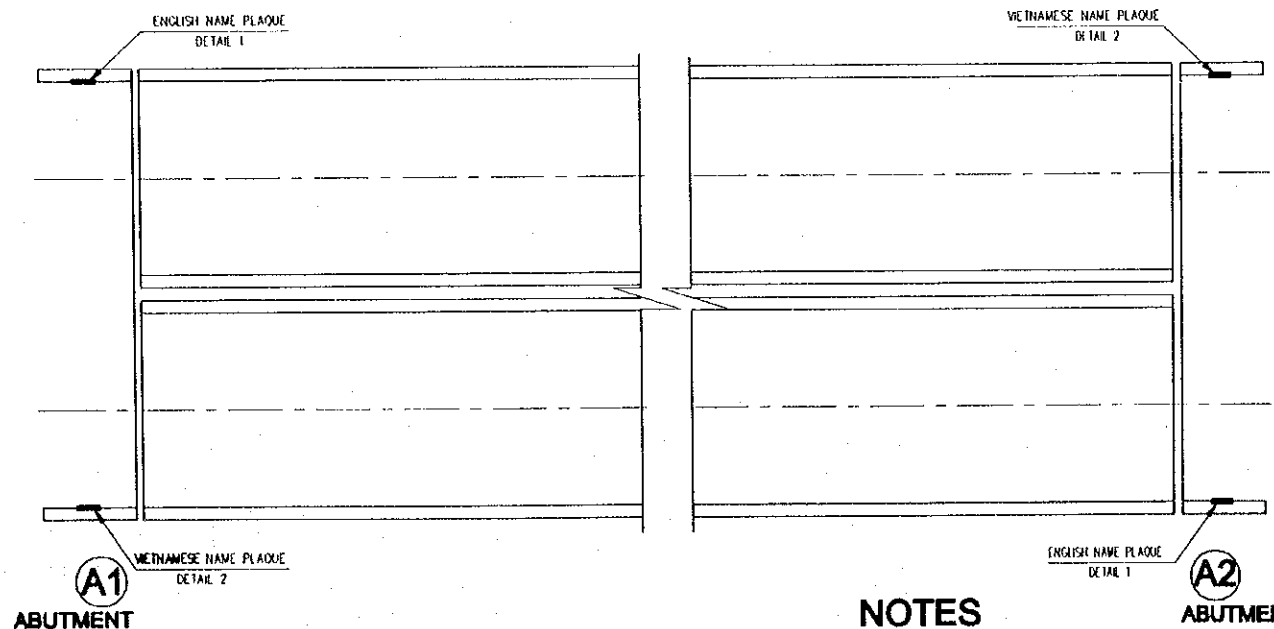
DETAIL 2



LOCATION OF NAME PLAQUE



PLAN



NOTES

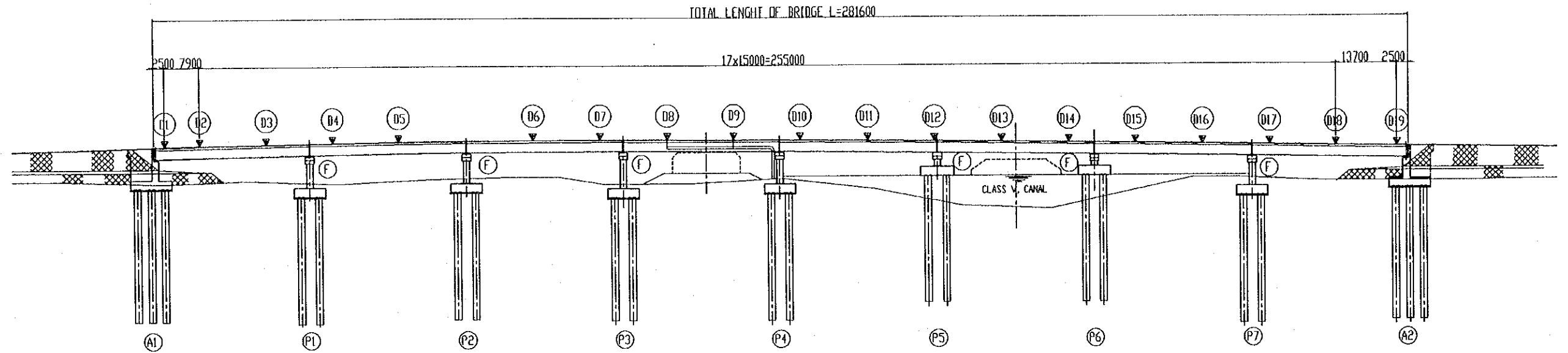
1. FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR1/0030.
2. MATERIAL SHALL BE BRONZE.
3. THE DATE TO BE ENTERED AGAINST CONSTRUCTED SHALL BE AS INSTRUCTED BY THE ENGINEER.
4. ONE PLATE SHALL BE WRITTEN IN ENGLISH AND ONE IN VIETNAMESE.
THE EXACT FIXING LOCATIONS TO BE INSTRUCTED BY THE ENGINEER.

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 KOBEL CO.,LTD.	NAME: T. Kametani SIGNATURE: <i>T. Kametani</i> DATE: 20/9/2000	K. Matsumoto <i>K. Matsumoto</i> 29/9/2000	K. Enomoto <i>K. Enomoto</i> 5/10/2000	LARGE TRA VA BRIDGE MISCELLANEOUS BRIDGE NAME PLAQUE	P1/BR1/0510

DRAINAGE AND LIGHTING POLES LAYOUT

(HO CHI MINH CITY-CA MAU DIRECTION)

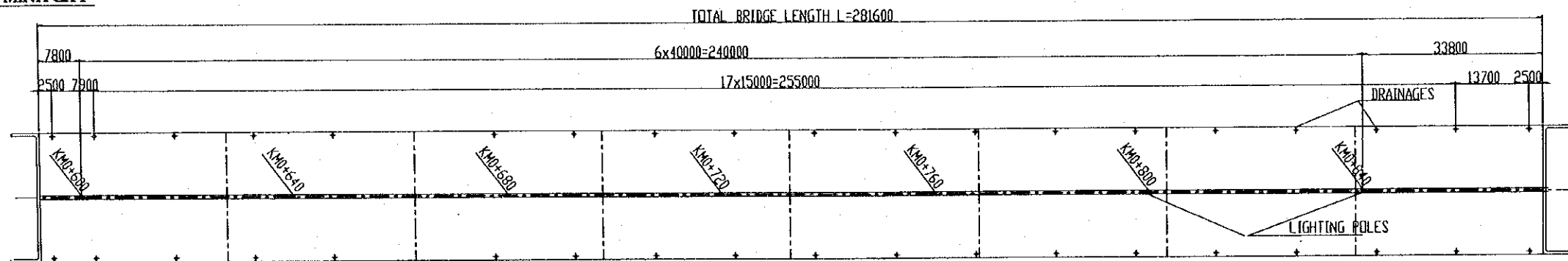
(SCALE 1:1000)



PLAN
SCALE 1:1000

TO HO CHI MINH CITY

TO CA MAU PROVINCE



NOTES:

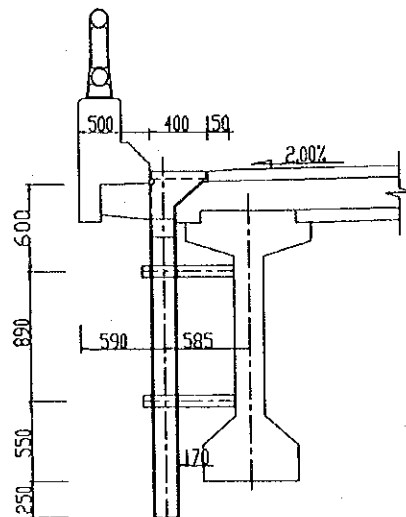
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR1/0030

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 KOBI CO.,LTD.	NAME T. Kametani	K. Matsumoto	K. Enomoto	LARGE TRA VA BRIDGE MISCELLANEOUS DRAINAGE AND LIGHTING POLES LAYOUT	P1/BR1/0520
				SIGNATURE <i>T. Kametani</i>	<i>K. Matsumoto</i>	<i>K. Enomoto</i>		
				DATE 20/9/2000	29/9/2000	5/10/2000		

DRAINAGE TYPE A

SCALE 1:50

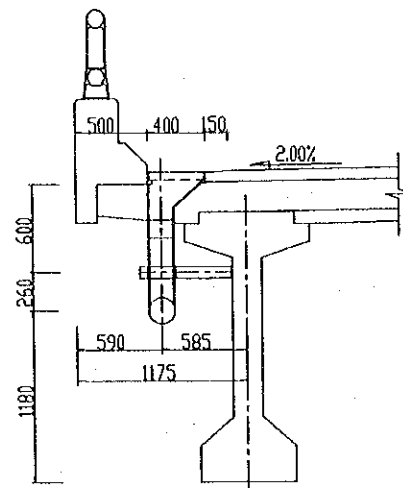
01 - 07, 010 - 019



DRAINAGE TYPE B

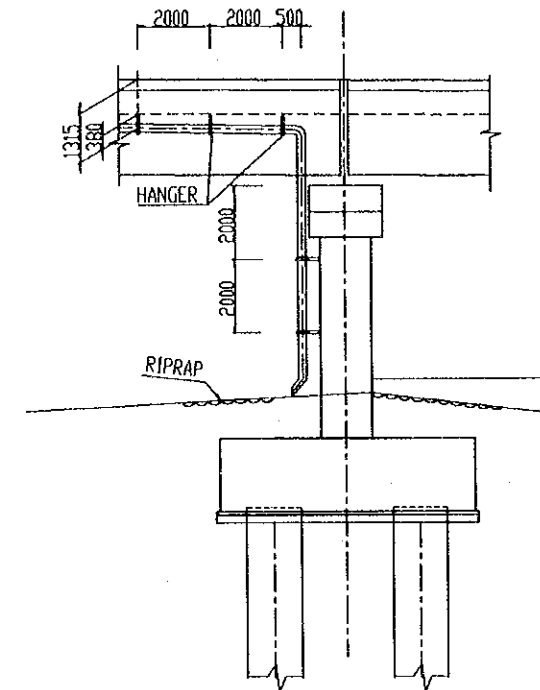
SCALE 1:50

08 - 09



DRAINAGE AT PIER P4

SCALE 1:200



NOTES

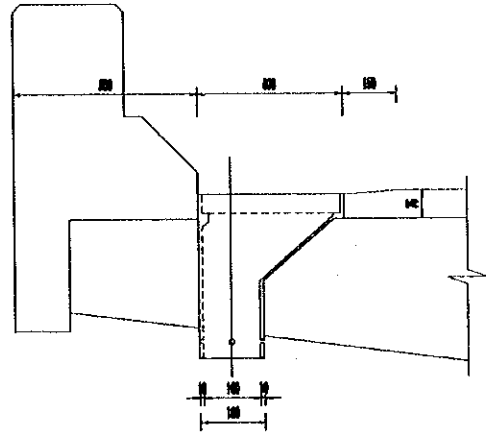
1. FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR1/0030

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.	T. Kametani	K. Matsumoto	K. Enomoto	LARGE TRA VA BRIDGE MISCELLANEOUS DRAINAGE DETAILS-SHEET1	P1/BR1/0530
				SIGNATURE	<i>[Signature]</i>	<i>[Signature]</i>		
				DATE	20/9/2000	29/9/2000		

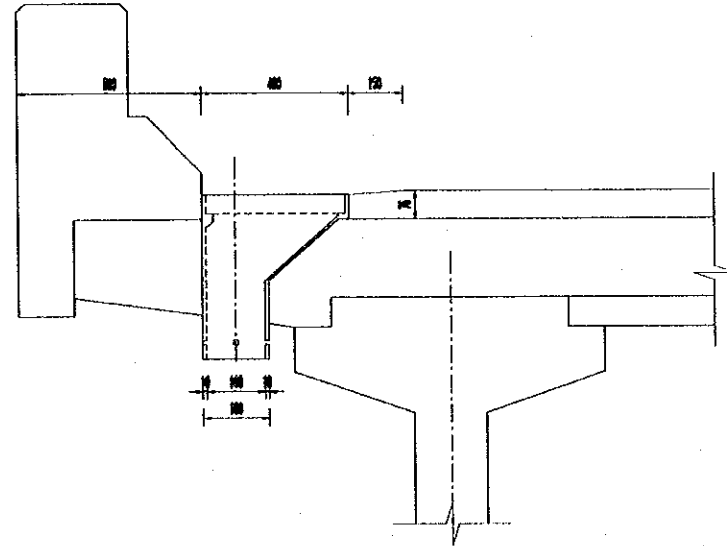
LOCATION OF DRAIN

SCALE 1:20

MAIN BRIDGE

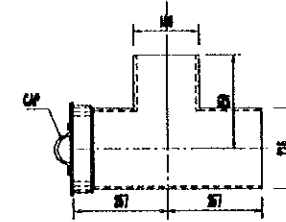


APPROACH BRIDGE



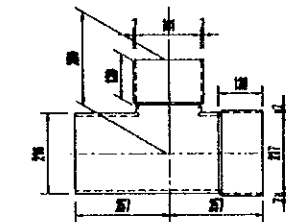
TEE (φ=200mm)

STYLE 1)
SCALE 1:20



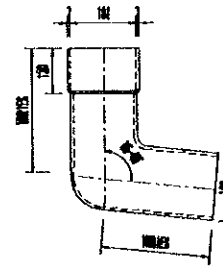
TEE (φ=200mm)

STYLE 2)
SCALE 1:20



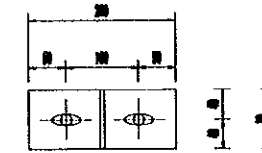
BEND PIPE

SCALE 1:20



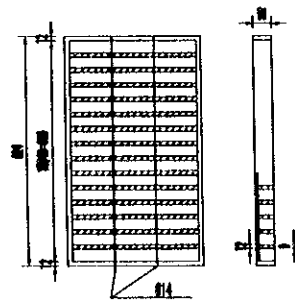
HANGER

SCALE 1:20



SCREEN

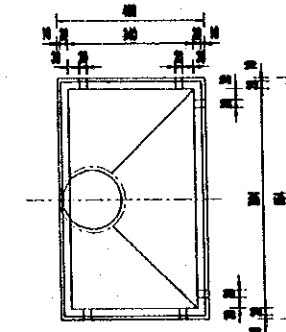
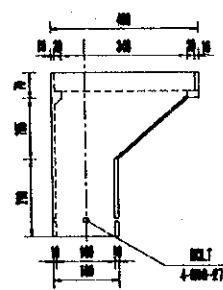
SCALE 1:20



- 2 - φ12.5MM
- 2 - φ12.5MM
- 14 - φ12.5MM
- 2 - φ12.5MM

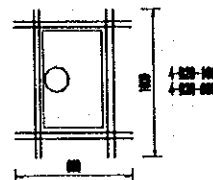
DRAIN BOX

SCALE 1:20



BOLT

SCALE 1:20





NOTES:

1. FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P1/BR1/0000

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.	T. Kametani	K. Matsumoto	K. Enomoto	LARGE TRA VA BRIDGE MISCELLANEOUS DRAINAGE DETAILS-SHEET 2	P1/BR1/0540
				NAME	DATE	DATE	DATE	
				20/9/2000	29/9/2000	5/10/2000		

QUANTITY TABLE OF MISCELLANEOUS

ITEM	WORK ITEM	UNIT	QUANTITY	REMARKS
CONCRETE CLASS E	LIGHTING- BASE	m3	0.70	
	RAILING	m3	289.49	
	TOTAL	m3	290.19	
REINFORCEMENT	LOGHT- BASE	ton	0.30	
	RAILING	ton	44.90	
	TOTAL	ton	45.20	
DRAINAGE	POT	SET	38.00	
	PIPE \$180	m	63.22	
STEEL RAIL		m	1126.40	

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 T. Kametani SIGNATURE <i>T. Kametani</i> DATE 20/9/2000	K. Matsumoto <i>K. Matsumoto</i> 29/9/2000	K. Enomoto <i>K. Enomoto</i> 5/10/2000	LARGE TRA VA BRIDGE MISCELLANEOUS QUANTITY TABLE OF MISCELLANEOUS	P1/BR1/550



P1/BR2 SMALL TRA VA BRIDGE

I. GENERAL

DRAWING LIST



No.	Code	Drawing Name
I		
GENERAL		
1	P1/BR2/0010	DRAWING LIST
2	P1/BR2/0020	ABBREVIATIONS AND SYMBOLS
3	P1/BR2/0030	STRUCTURAL NOTES
4	P1/BR2/0040	LOCATION MAP
5	P1/BR2/0050	COORDINATES OF BRIDGE
6	P1/BR2/0060	GENERAL VIEW - SHEET 1
7	P1/BR2/0070	GENERAL VIEW - SHEET 2
8	P1/BR2/0080	QUANTITY TABLES OF BRIDGE
II		
SUPERSTRUCTURE		
9	P1/BR2/0090	GIRDER LAYOUT - SHEET 1
10	P1/BR2/0100	GIRDER LAYOUT - SHEET 2
11	P1/BR2/0110	GENERAL VIEW OF *I* GIRDER L=25.0M.
12	P1/BR2/0120	GENERAL VIEW OF *I* GIRDER L=37.0M.
13	P1/BR2/0130	TENDON ARRANGEMENT OF *I* GIRDER L=25.0M.
14	P1/BR2/0140	TENDON ARRANGEMENT OF *I* GIRDER L=37.0M.
15	P1/BR2/0150	TENDON ARRANGEMENT OF CONNECTION DIAPHRAGMS.
16	P1/BR2/0160	REINFORCEMENT OF *I* GIRDER L=25.0M.
17	P1/BR2/0170	REINFORCEMENT OF *I* GIRDER L=37.0M.
18	P1/BR2/0180	REINFORCEMENT OF DIAPHRAGMS - SHEET 1
19	P1/BR2/0181	REINFORCEMENT OF DIAPHRAGMS - SHEET 2
20	P1/BR2/0190	DECK SLAB REINFORCEMENT - SHEET 1
21	P1/BR2/0200	DECK SLAB REINFORCEMENT - SHEET 2
22	P1/BR2/0210	DECK SLAB REINFORCEMENT - SHEET 3
23	P1/BR2/0220	DECK SLAB REINFORCEMENT - SHEET 4
24	P1/BR2/0230	DETAILS OF BEARINGS.
25	P1/BR2/0240	DETAILS OF EXPANSION JOINTS
26	P1/BR2/0250	QUANTITY TABLES OF SUPERSTRUCTURE

No.	Code	Drawing Name
III		
ABUTMENTS		
27	P1/BR2/0260	ABUTMENTS A1 & A2 - GENERAL VIEW
28	P1/BR2/0270	ABUTMENTS A1 & A2 - BORED PILE DETAILS L=66M
29	P1/BR2/0280	REINFORCEMENT OF ABUTMENTS A1 & A2 - SHEET 1
30	P1/BR2/0290	REINFORCEMENT OF ABUTMENTS A1 & A2 - SHEET 2
31	P1/BR2/0300	REINFORCEMENT OF ABUTMENTS A1 & A2 - SHEET 3
32	P1/BR2/0310	EARTHWORKS SLOPE PROTECTION
33	P1/BR2/0320	DETAILS OF APPROACH SLAB
34	P1/BR2/0330	QUANTITY TABLES OF ABUTMENTS
IV		
PIERS		
35	P1/BR2/0340	PIERS P1 & P2 - GENERAL VIEW
36	P1/BR2/0350	PIERS P1 & P2 - BORED PILE DETAILS L=64M
37	P1/BR2/0360	BAR ARRANGEMENT OF PIERS P1 & P2 - SHEET 1
38	P1/BR2/0370	BAR ARRANGEMENT OF PIERS P1 & P2 - SHEET 2
39	P1/BR2/0380	PIERS PROTECTION
40	P1/BR2/0390	QUANTITY TABLES OF PIERS
V		
MISCELLANEOUS		
41	P1/BR2/0400	DETAILS OF PARAPET AND RAILINGS
42	P1/BR2/0410	BRIDGE NAME PLAQUE
43	P1/BR2/0420	DRAINAGE AND LIGHTING POLES LAYOUT
44	P1/BR2/0430	DETAILS OF DRAINAGE ON BRIDGE
45	P1/BR2/0440	DETAILS OF LIGHTING POLES' BASES
46	P1/BR2/0450	QUANTITY TABLES OF MISCELLANEOUS WORKS

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 KOBI CO.,LTD.	NAME T. Kametani SIGNATURE <i>T. Kametani</i> DATE 20/9/2000	K. Matsumoto <i>K. Matsumoto</i> 29/9/2000	K. Enomoto <i>K. Enomoto</i> 5/10/2000	SMALL TRA VA BRIDGE GENERAL DRAWING LIST	P1/BR2/0010

ABBREVIATIONS AND SYMBOLS

A	PARAMETER OF CLOTHOID CURVE	I.P	POINT OF INTERSECTION
⊙	AT	KG	KILOGRAM
ABUT	ABUTMENT	KM	KILOMETER
AC	ASPHALT CONCRETE	KPH	KILOMETER PER HOUR
APPR	APPROACH	L	LENGTH OF CURVE WITH SPIRAL
ASPH	ASPHALT	LC	LENGTH OF CIRCULAR CURVE
&	AND	LS	LENGTH OF SPIRAL CURVE
A > B	A IS LARGER THAN B	LVC	LENGTH OF VERTICAL CURVE
BOR	BORING	LIN.M	LINEAR METER
BR	BRIDGE	M	METER
BX	BOX CULVERT	M ²	SQUARE METER
C	CUT	M ³	CUBIC METER
CTC	CENTER TO CENTER	MAX	MAXIMUM
☉	CENTERLINE	MIN	MINIMUM
CM	CENTIMETER	MOV	MOVABLE
CONC	CONCRETE	N.G.L	NATURAL GROUND LEVEL
CONST	CONSTRUCTION	OV	OVER BRIDGE
CONT	CONTINUOUS	%	PERCENT
C.S	CIRCULAR CURVE TO SPIRAL CURVE	P	PIPE CULVERT
CU.M	CUBIC METER	PC	BEGINNING POINT OF SIMPLE CURVE
DIA or ∅	DIAMETER	PE.W	PARAPET WALL
DC	DRAINAGE CATCHBASIN	P.C	PRESTRESSED CONCRETE
DI	DRAINAGE INLET	P/C	PRE - CAST
DL	DATUM LINE	PH	PLAN HEIGHT
DO	DRAINAGE OUTLET	P.I	POINT OF INTERSECTION FOR HORIZONTAL ALIGNMENT
DS	DRAINAGE SIDEDITCH	PT	END OF POINT OF SIMPLE CURVE
DW	MORTARED RUBBLE PAVED WATERWAY	PC	PLATE COVER
E.P	END POINT	R	RADIUS OF CIRCULAR CURVE
E.V	MIDDLE ORDINATE VERTICAL CURVE	R.C	REINFORCED CONCRETE
EL	ELEVATION	R.O.W	RIGHT OF WAY
EQ	EQUAL	RW	RETAINING WALL
EXC	EXCAVATION	S.C	SPIRAL CURVE TO CIRCULAR CURVE
EXP	EXPANSION	S.P	SLOPE PROTECTION
F	FILL	S.P.P	STEEL PIPE PILE
FG	FINISHED GRADE	SQ	SQUARE
FIX	FIXED	SQ.M	SQUARE METER
FR	FRONTAGE ROAD	S.T	SPIRAL CURVE TO TANGENT
FTOF	FACE TO FACE	STA	STATION
G.F	GUARD FENCE	SM	STONE MASONRY
GR	GUARD RAIL	T	THICKNESS
GIR	GIRDER	T.S	TANGENT TO SPIRAL
H	HEIGHT	T.L	TANGENT LENGTH OF CIRCULAR CURVE
D.F.W.L	DATUM FLOODED WATER LEVEL	To	TANGENT LENGTH OF SPIRAL
HWY	HIGHWAY	V	DESIGN SPEED IN KPH
i	GRADIENT	W	WIDTH
I.C	INTERCHANGE	X	EASTING COORDINATE IN METERS
		Y	NORTHING COORDINATE IN METERS

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	T. Kametani	K. Matsumoto	K. Enomoto	SMALL TRA VA BRIDGE GENERAL ABBREVIATIONS AND SYMBOLS	P1/BR2/0020
				SIGNATURE	<i>T. Kametani</i>	<i>K. Matsumoto</i>	<i>K. Enomoto</i>		
				DATE	20/9/2000	29/9/2000	5/10/2000		

STRUCTURAL NOTES

1. GENERAL

- 1.1. UNLESS OTHERWISE NOTED THESE NOTES ARE APPLIED TO ALL DRAWINGS.
- 1.2. THE SCALE INDICATED IN DRAWINGS IS FOR 'A3' SIZE.
- 1.3. ALL CHAINAGES, COORDINATES, ELEVATIONS ARE IN METRES. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED.
- 1.4. THE ELEVATION SYSTEM IS REFERED TO THE MEAN SEA DATUM ELEVATION AT HONDAU - DO SON. COORDINATE REFER TO THE NATIONAL GRID SYSTEM.

2. DESIGN CRITERIA & LOADS

- 2.1. DESIGN STANDARDS:
 - AASHTO 1998 - LRFD BRIDGE DESIGN SPECIFICATIONS
 - AASHTO GUIDE SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF SEGMENTAL CONCRETE BRIDGES
 - JAPANESE HIGHWAY AND BRIDGE STANDARDS 1996
 - VIETNAMESE HIGHWAY BRIDGES STANDARDS 1979
- 2.2. DESIGN LOADS:
 - B_LOADING IN ACCORDANCE WITH JAPANESE CODE
 - PEDESTRIAN LOAD : 3.6 kN/M² - AASHTO LRFD 1998
 - BASIC WIND VELOCITY : 160 KM/H - AASHTO LRFD 1998
 - LATERAL SEISMIC RESPONSE COEFFICIENT : 0.12
 - VESSEL IMPACT : VIETNAMESE HIGHWAY BRIDGES STANDARDS 1979
 - TEMPERATURE RANGE : 17.7°C TO 36.7°C
 - UNIFORM TEMPERATURE : ±10°C
 - TEMPERATURE DIFFERENTIAL : 5°C

3. CONCRETE

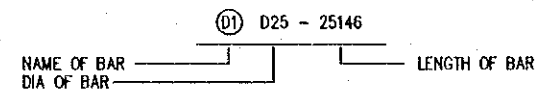
- 3.1. UNLESS OTHERWISE INDECATED CONCRETE SHALL BE OF THE FOLLOWING GRADES BASED ON 28 DAY CYLINDER STRENGTH f_c :

CONCRETE CLASS	STRENGTH f_c MPa	KIND OF STRUCTURE IN USE
B	40	PC BOX GIRDER, I-GIRDER
C	35	HOLLOW SLAB
D	30	IN-SITU DECK SLAB, BORED PILE
E	24	PIER, ABUTMENT, PILE CAP, RETAINING WALL, PARAPET, BARRIER, KERB
G	15	LEAN CONCRETE

- 3.2. WHEREVER FORMS ARE NOT USED REINFORCED CONCRETE SHALL BE PLACED AGAINST 100mm MINIMUM THICKNESS LEAN CONCRETE.
- 3.3. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 20x20mm UNLESS OTHERWISE NOTED.
- 3.4. ALL CONSTRUCTION JOINTS ARE TO BE LOCATED AS SHOWN ON THE DRAWINGS OR AS ENGINEER'S APPROVAL.

4. REINFORCEMENT

- 4.1. REINFORCEMENT SHALL BE DEFORMED, EXCEPT THAT PLAIN BARS OR PLAIN WIRE MAY BE USED FOR SPIRALS, HOOPS, AND WIRE FABRIC.
- 4.2. REINFORCEMENT SHALL BE SD390 OR EQUIVALENT. PLAIN ROUND BAR WITH $f_y(\min)$ 250 MPa AND HIGH YIELD DEFORMED BARS WITH YIELD STRENGTH NOT LESS THAN $f_y(\min)$ 390 MPa SHALL BE USED.
- 4.3. REINFORCEMENT IS NOTED ON THE DRAWINGS AS FOLLOWS:



- 4.4. ALL REINFORCEMENTS ARE SHOWN AS _____
- 4.5. SPLICES IN ADJACENT BARS SHALL BE STAGGERED EXCEPT WHERE NOTED ON THE DRAWINGS. SPLICES OTHER THAN THOSE SHOWN ON THE DRAWINGS MAY ONLY BE MADE WITH THE ENGINEER'S APPROVAL.

4. REINFORCEMENT (CONTINUED)

- 4.6. REINFORCEMENTS INDECATED AS RANDOM LENGTH MAY BE LAP SPLICED AS NECESSARY SUBJECT TO THE FOLLOWING CONDITIONS:
 - A) LAP SPLICES IN ADJACENT BARS SHALL BE STAGGERED
 - B) MINIMUM LAP LENGTHS SHALL BE IN ACCORDANCE WITH AASHTO LRFD 1998, EXCEPT BORED PILE SHALL BE 40 BAR DIAMETERS
 - C) NOT MORE THAN ONE BAR PER LINE IS TO BE SHORTER THAN 12 METRES FOR ANY DIAMETER
- 4.7. UNLESS OTHERWISE INDECATED ON THE DRAWINGS, THE MINIMUM COVER TO ANY REINFORCEMENT SHALL BE AS FOLLOWS:
 - 75mm BORED PILE, RETAINING WALL & ABUTMENT
 - 50mm PILE CAP, DECK SLAB, PIER & ABUTMENT, PARAPET, KERB, APPROACH SLAB, etc...
 - TOLERANCE ON COVER IS +/-5MM

5. PRESTRESSING

- 5.1. NOMINAL DIAMETER, YIELD AND TENSILE STRENGTH OF PRESTRESSED TENDON ARE SPECIFIED AS FOLLOWS:

UTILIZATION	NOMINAL DIAMETER (mm)	TENSILE STRENGTH (MPa)	YIELD STRENGTH (MPa)	JACKING FORCE (kN)
INTERNAL CABLE	12S12.7	1860	1675	1650
TRANSVERSE CABLE	3S12.7	1860	1675	415

- 5.2. PRESTRESSED TENDONS SHALL BE FORMED FROM THE STRANDS OF 12.7mm DIAMETER MADE BY 7 LOW RELAXATION WIRES GRADE 270 CORRESPONDING WITH ASTM A416M. THE ACTUAL TENDON SIZES AND INITIAL PRESTRESSED FORCE ARE GIVEN ON THE DETAIL DRAWINGS.
- 5.3. PRESTRESSED SYSTEMS TO BE ADOPTED SHALL BE IN ACCORDANCE WITH THE ENGINEER'S APPROVAL.
- 5.4. DUCTS FOR INTERNAL TENDONS SHALL BE SEMI-RIGID GALVANISED SHEATHING UNLESS OTHERWISE NOTED AND SHALL BE RIGIDLY SUPPORTED AT NOT MORE THAN 750mm FROM CENTRES.
- 5.5. THE METHOD TO FIX THE DUCTS AND THE METHOD OF JOINTING AND SEALING OF DUCTS AT CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH THE ENGINEER'S APPROVAL.
- 5.6. TENDON PROFILES ARE SPECIFIED TO THE CENTER OF SHEATHING. THE TENDON ARE TO BE PLACED TO SMOOTH PROFILES PASSING THROUGH THE SPECIFIED POINTS.
- 5.7. EACH TENDON SHALL BE KEPT STRAIGHT FOR A MINIMUM LENGTH OF 1000mm FROM ANCHORAGE FACES.
- 5.8. GROUTING POINTS SHALL BE PROVIDED AT ALL CROWN POINTS, SAG POINTS, ANCHORAGES AND DEVIATORS.

6. WATERPROOF

- 6.1. ALL REINFORCED CONCRETE SURFACES IN CONTACT WITH BACKFILL SHALL BE COATED WITH TWO COATS OF BITUMINOUS MEMBRANE.
- 6.2. THE BRIDGE DECK SHALL BE WATERPROOFED WITH APPROVED PROPRIETARY WATERPROOFING SYSTEM IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

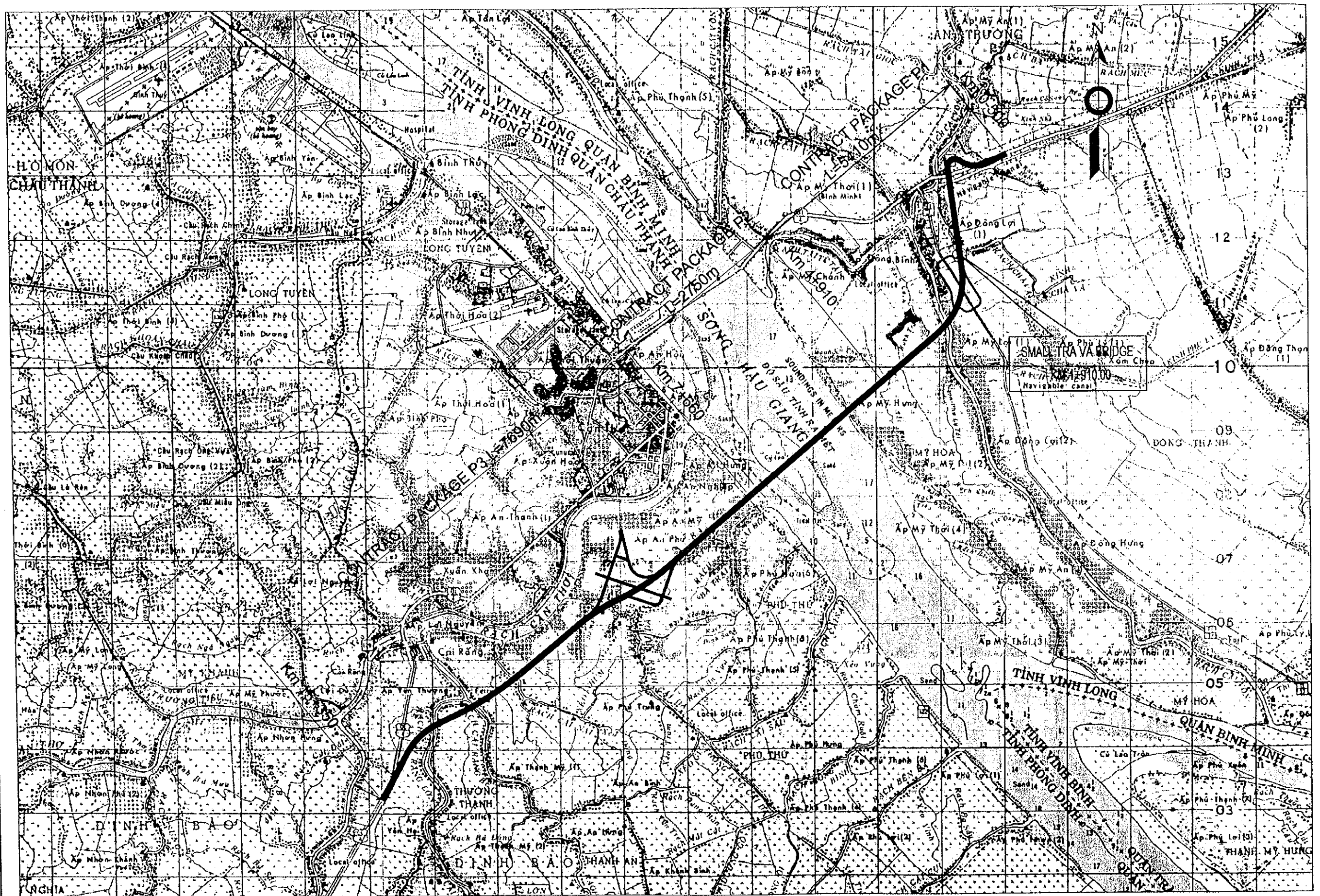
7. SUPERSTRUCTURE

- 7.1. SUPERSTRUCTURE IS DESIGNED ON THE BASIS OF CONSTRUCTION SEQUENCE DETAILED ON THE DRAWINGS. ANY CHANGES TO THE CONSTRUCTION SEQUENCE WILL REQUIRE A RE-DESIGN OF THE BRIDGE.
- 7.2. THE SUPERSTRUCTURE DESIGN IS BASED ON THE USE OF INTERNAL PRESTRESSING WITH THE FOLLOWING PARAMETERS:

COEFFICIENT OF FRICTION - 1/RAD	0.25
WOBBLE FACTOR K - 1/m (FOR INTERNAL ONLY)	0.004
DRAW-IN	5 mm
RELATIVE HUMIDITY	85%

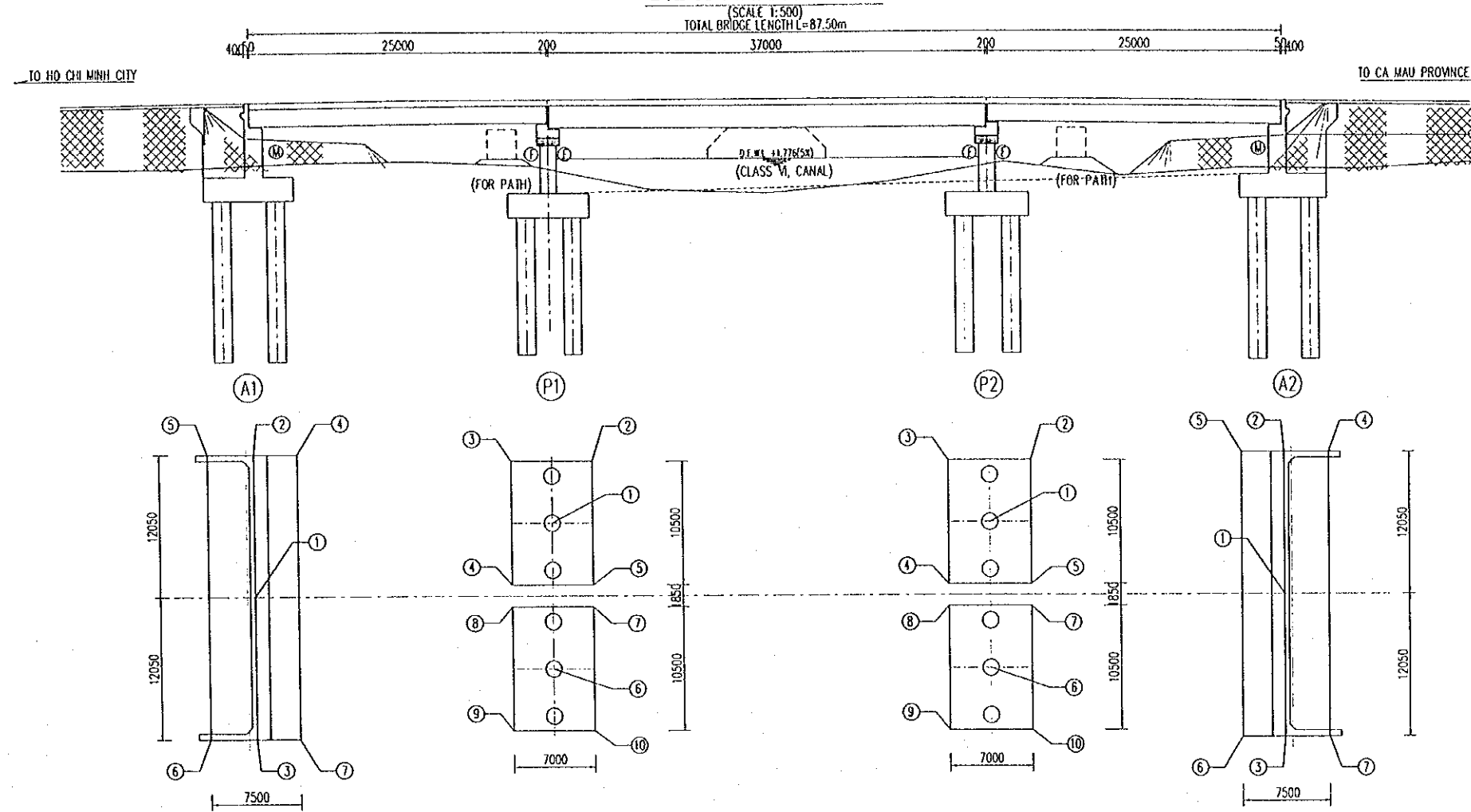
- 7.3. ANCHOR BAR SHALL BE CONFORMING TO THE REQUIREMENTS OF SS400 OF JIS G3101.

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 KOBI CO., LTD.	T. Kametani	K. Matsumoto	K. Enomoto	SMALL TRA VA BRIDGE GENERAL STRUCTURAL NOTES	P1/BR2/0030
				DATE: 20/9/2000	DATE: 29/9/2000	DATE: 5/10/2000		



PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
				NAME	T. Kametani	K. Matsumoto		
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.	SIGNATURE	<i>T. Kametani</i>	<i>K. Matsumoto</i>	SMALL TRA VA BRIDGE LOCATION MAP	P1BR20040

SIDE ELEVATION



COORDINATES TABLE

POINT	A1		P1		P2		A2	
	N	E	N	E	N	E	N	E
1	1112860.033	591463.990	1112835.623	591472.637	1112798.608	591476.338	1112772.969	591472.696
2	1112861.232	591475.978	1112832.663	591478.209	1112795.647	591481.910	1112774.167	591484.684
3	1112858.834	591451.997	1112839.628	591477.512	1112802.613	591481.214	1112771.769	591460.704
4	1112857.650	591476.338	1112838.583	591467.064	1112801.568	591470.766	1112770.287	591485.072
5	1112865.113	591475.592	1112831.618	591467.761	1112794.603	591471.462	1112777.750	591484.326
6	1112862.715	591451.611	1112834.394	591460.348	1112797.379	591464.049	1112775.352	591460.348
7	1112855.252	591452.358	1112831.434	591465.920	1112794.418	591469.622	1112767.889	591461.092
8			1112838.399	591465.223	1112801.384	591468.925	1112767.889	591461.092
9			1112837.354	591454.776	1112800.339	591458.477		
10			1112830.389	591455.472	1112793.374	591459.174		

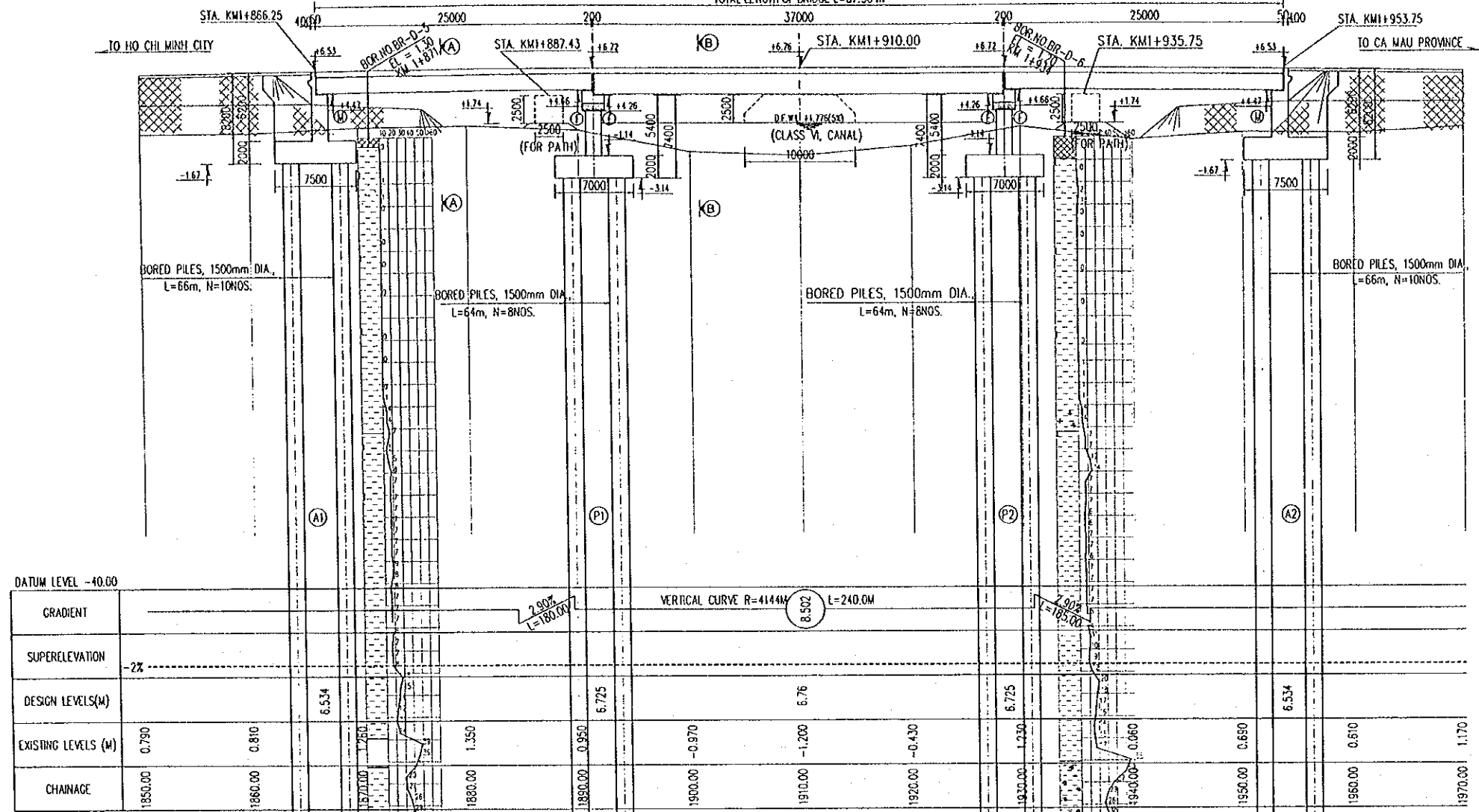
NOTES

- FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR2/0030
- SYMBOLS :
 - ⊕: FIXED BEARING
 - ⊙: MOVABLE BEARING

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.	T. Kametani	K. Matsumoto	K. Enomoto	SMALL TRA VA BRIDGE GENERAL COORDINATES OF BRIDGE	P1/BR2/0050
				SIGNATURE DATE: 20/9/2000	SIGNATURE DATE: 29/9/2000	SIGNATURE DATE: 5/10/2000		

SIDE ELEVATION

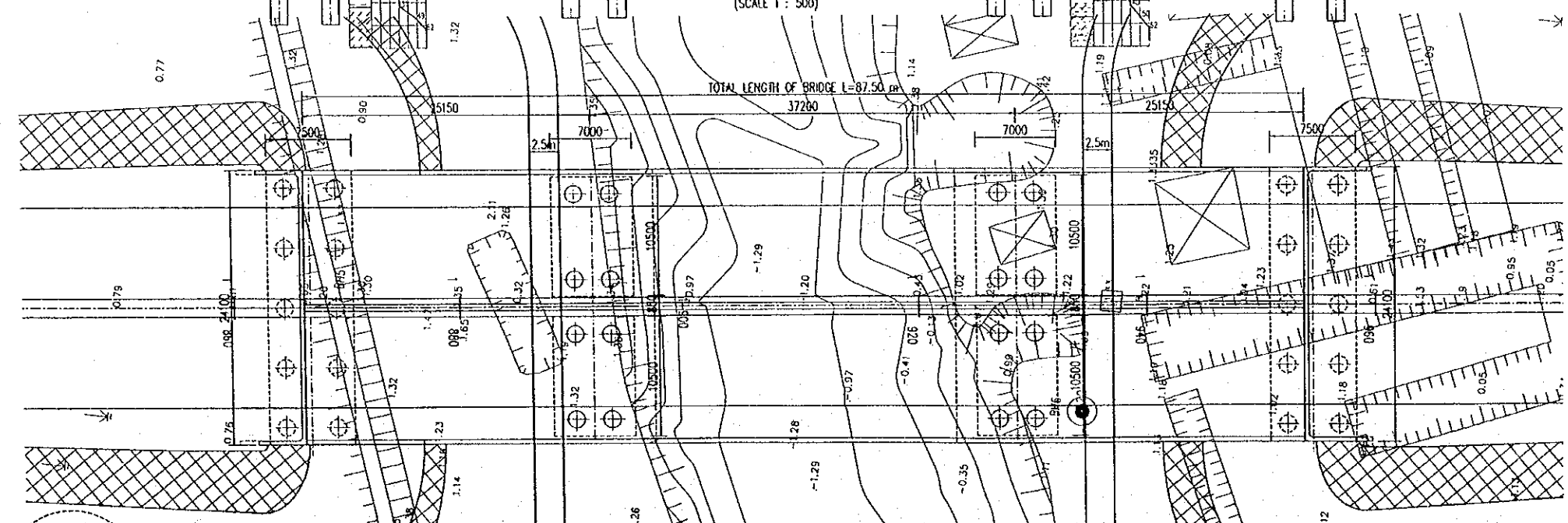
(SCALE 1:500)
TOTAL LENGTH OF BRIDGE L=87.50 m



DATUM LEVEL -40.00	
GRADIENT	
SUPERELEVATION	-2%
DESIGN LEVELS(M)	6.534, 6.725, 6.76, 6.725, 6.534
EXISTING LEVELS (M)	0.790, 0.810, 1.350, 0.950, -0.970, -1.200, -0.430, 1.230, 0.060, 0.680, 0.610, 1.170
CHAINAGE	1850.00, 1860.00, 1870.00, 1880.00, 1890.00, 1900.00, 1910.00, 1920.00, 1930.00, 1940.00, 1950.00, 1960.00, 1970.00

PLAN

(SCALE 1:500)



NOTES

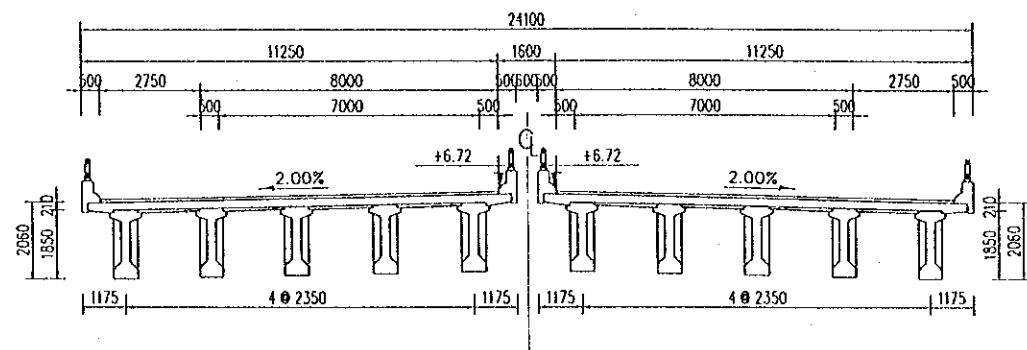
- FOR STANDARD STRUCTURAL NOTES SEE DRAWING No. P1/BR2/0030
- ELEVATIONS ARE IN METERS IN REFERENCE TO THE NATIONAL DATUM LEVEL.
- SYMBOLS :
 (P) FIXED BEARING
 (M) MOVABLE BEARING

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 T. Kametani SIGNATURE <i>T. Kametani</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	SMALL TRA VA BRIDGE GENERAL GENERAL VIEW - SHEET 1	P1/BR2/0060

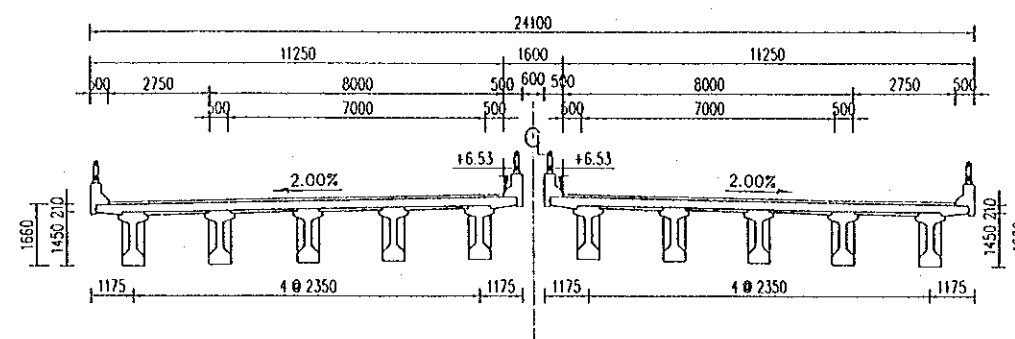
TYPICAL SECTIONS FOR SUPERSTRUCTURE

(SCALE 1:200)

MIDDLE SPAN



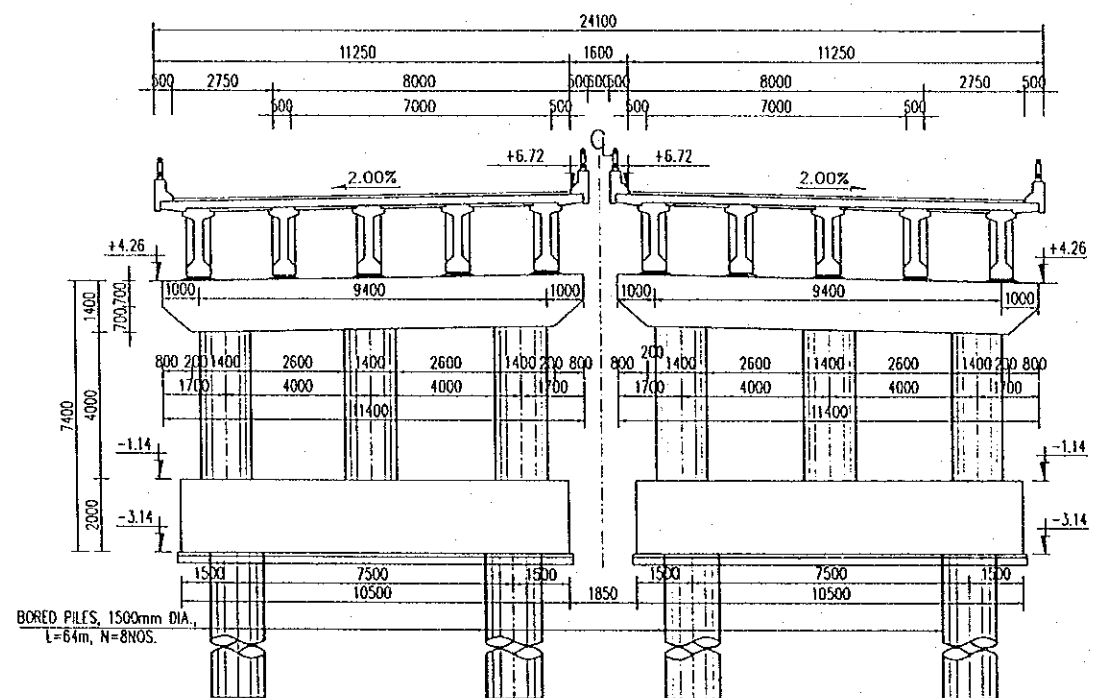
SIDE SPAN



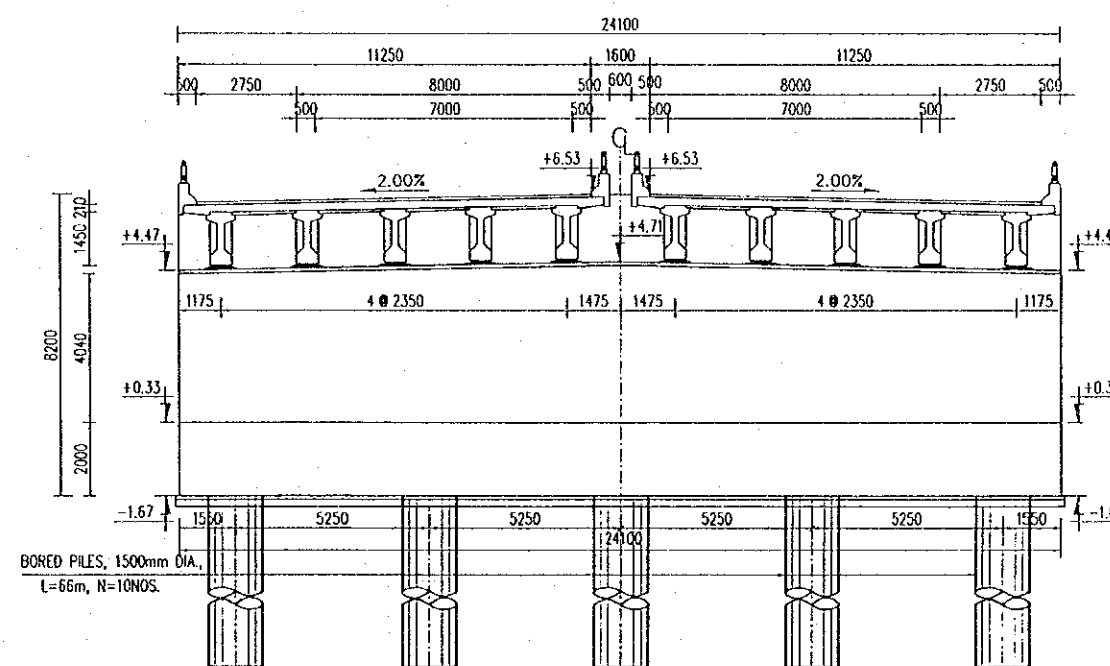
CROSS SECTIONS

(SCALE 1:200)

B-B (PIER P1)



A-A (ABUTMENT A1)



NOTES

FOR STANDARD STRUCTURAL NOTES SEE DRAWING No. P1/BR2/0030


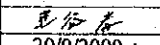
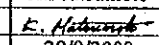
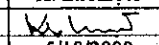
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO., LTD.	NAME T. Kametani	NAME K. Matsumoto	NAME K. Enomoto	SMALL TRA VA BRIDGE GENERAL GENERAL VIEW - SHEET 2	P1/BR2/0070
				SIGNATURE 	SIGNATURE 	SIGNATURE 		
				DATE 20/9/2000	DATE 29/9/2000	DATE 5/10/2000		

QUANTITY TABLE OF SMALL TRA VA BRIDGE

ITEMS	UNIT	ABUTMENTS	PIERS	SUPER STRUCTURE	MISCELLANEOUS WORKS			TOTAL
					DRAINAGE	LIGHTING	PARAPET AND RAILING	
CONCRETE	CLASS B	m ³			610			610
	CLASS D	m ³	2333	1810	646			4788
	CLASS E	m ³	1252	803	89		0.2	2234
	CLASS C	m ³	61	562				623
PC - STEEL	12 S12.7	m			31			31
	3 S12.7	m			2			2
SHEATHING	CABLES #80/85MM	m			3323			3323
	CABLES #50/55MM	m			724			724
CEMENT GROUT IN SHEATHING	m ³				18			18
ANCHORAGE	CABLES 12S12.7	set			220			220
	CABLES 3S12.7	set			144			144
REINFORCEMENT	D32	kg	45454	14858				60312
	D28	kg		3572				3572
	D25	kg	96741	60307	5988			163036
	D22	kg	16293	13093	29796			59183
	D20	kg	18390	1405	60042		41	79878
	D18	kg	1403					1403
	D16	kg	15674	2376	7876		22	25948
	D14	kg	5234	3660	137061			159815
	D12	kg			7313			7313
	D10	kg	21589	15760	317			37666
	D6	kg			11551			11551
TOTAL	kg	220778	115031	259943		63	13860	699675
EXPANSION JOINT	50MM	m					43	43
BEARING	600x300x57	set					20	20
	500x250x50	set					40	40
ANCHORAGE BAR		set			48			48
PVC PILE	# 50 MM	m	135					135
	# 100 MM	m				350		350
RAILING		m					368	368
LIGHTING POLE		set				2		2
DRAINAGE	POT	set				14		14
	PIPE # 165 MM	m				24		24
PAVEMENT	WATER PROOFING 5MM	m ²			1862			1862
	ASPHALT CONCRETE 70MM	m ²			1862			1862
PILE # 150CM		m	1320	1024				2344
GEOTEXTILE		m ²	1568					1568
STONE MASONRY		m ³	1225					1225
BLINDING AGGREGATE		m ³	408					408
FOOTING OF SLOPE PROTECTION		m	219					219
RIP RAP		m ³		1615				1615
BLINDING STONE		m ³	68					68
WOODEN PILE , L=3M		m	16155					16155
EXCAVATION GROUND		m ³	3582	2762				6344
FILLING GROUND		m ³	1946	1148				3093

NOTES:

1 - FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR2/0030.

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: T. Kametani SIGNATURE:  DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE:  DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE:  DATE: 5/10/2000	SMALL TRA VA BRIDGE SUPERSTRUCTURE QUANTITY TABLE OF BRIDGE	P1/BR2/0080