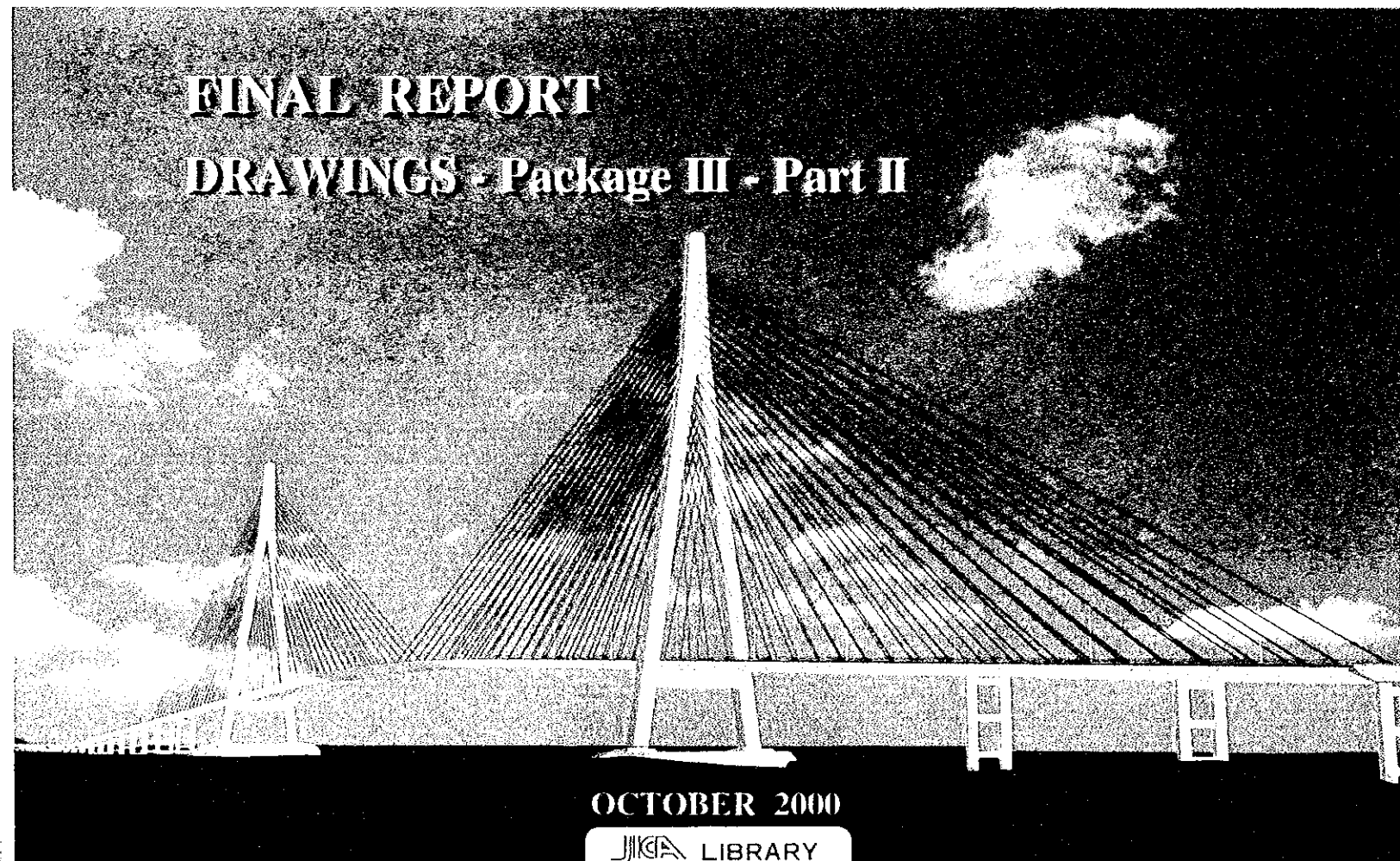


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)  
MINISTRY OF TRANSPORT  
SOCIALIST REPUBLIC OF VIET NAM

**THE DETAILED DESIGN  
ON  
THE CAN THO BRIDGE CONSTRUCTION  
IN  
SOCIALIST REPUBLIC OF VIET NAM**



**FINAL REPORT  
DRAWINGS - Package III - Part II**

OCTOBER 2000

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**JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)  
MINISTRY OF TRANSPORT  
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**NIPPON KOEI CO., LTD.**



1161227 [2]

# PACKAGE III (PART - 2)

P3/BR1

CAI TAC 1 BRIDGE

P3/BR2

CAI TAC 2 BRIDGE

P3/BR3

CAI DA BRIDGE

# DRAWING LIST (1/2)

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
P3/BR1	<b>CAI TAC 1 BRIDGE</b>	P3/BR1/0450	REINFORCEMENT OF PIERS P1 & P2 - SHEET 2
	<b>GENERAL</b>	P3/BR1/0460	REINFORCEMENT OF PIERS P3 & P4 - SHEET 1
P3/BR1/0010	DRAWING LIST	P3/BR1/0470	REINFORCEMENT OF PIERS P3 & P4 - SHEET 2
P3/BR1/0020	ABBREVIATIONS AND SYMBOLS	P3/BR1/0480	PIER PROTECTION
P3/BR1/0030	STRUCTURAL NOTES	P3/BR1/0490	QUANTITY TABLE OF PIERS
P3/BR1/0040	LOCATION MAP		<b>MISCELLANEOUS</b>
P3/BR1/0050	COORDINATES OF BRIDGE	P3/BR1/0500	DETAILS OF PARAPET AND RAILINGS
P3/BR1/0060	GENERAL VIEW - SHEET 1	P3/BR1/0510	BRIDGE NAME PLAQUE
P3/BR1/0070	GENERAL VIEW - SHEET 2	P3/BR1/0520	DRAINAGE AND LIGHTING POLES LAYOUT
P3/BR1/0080	QUANTITY TABLE OF BRIDGE	P3/BR1/0530	DETAILS OF DRAINAGE ON BRIDGE
	<b>SUPERSTRUCTURE</b>	P3/BR1/0540	DETAILS OF LIGHTING POLE BASES
P3/BR1/0090	GIRDER LAYOUT - SHEET 1	P3/BR1/0550	QUANTITY TABLE OF MISCELLANEOUS WORKS
P3/BR1/0100	GIRDER LAYOUT - SHEET 2		
P3/BR1/0110	GENERAL VIEW OF GIRDER L=37.0M	P3/BR2	<b>CAI TAC 2 BRIDGE</b>
P3/BR1/0120	TENDONS ARRANGEMENT OF GIRDER L=37.0M		<b>GENERAL</b>
P3/BR1/0130	TENDONS ARRANGEMENT OF CONNECTION DIAPHRAGMS	P3/BR2/0010	DRAWING LIST
P3/BR1/0140	REINFORCEMENT OF GIRDER L=37.0M - SHEET 1	P3/BR2/0020	ABBREVIATIONS AND SYMBOLS
P3/BR1/0150	REINFORCEMENT OF GIRDER L=37.0M - SHEET 2	P3/BR2/0030	STRUCTURAL NOTES
P3/BR1/0160	REINFORCEMENT OF GIRDER L=37.0M - SHEET 3	P3/BR2/0040	LOCATION MAP
P3/BR1/0170	REINFORCEMENT OF DIAPHRAGMS	P3/BR2/0050	COORDINATES OF BRIDGE
P3/BR1/0180	DECK SLAB REINFORCEMENT - SHEET 1	P3/BR2/0060	GENERAL VIEW - SHEET 1
P3/BR1/0190	DECK SLAB REINFORCEMENT - SHEET 2	P3/BR2/0070	GENERAL VIEW - SHEET 2
P3/BR1/0200	DECK SLAB REINFORCEMENT - SHEET 3	P3/BR2/0080	GENERAL VIEW - SHEET 3
P3/BR1/0210	DECK SLAB REINFORCEMENT - SHEET 4	P3/BR2/0090	QUANTITY TABLE OF BRIDGE
P3/BR1/0220	DETAILS OF BEARINGS		<b>SUPERSTRUCTURE</b>
P3/BR1/0230	DETAILS OF EXPANSION JOINTS	P3/BR2/0100	GENERAL VIEW OF "I" GIRDER L=37.0M
P3/BR1/0240	QUANTITY TABLE OF SUPERSTRUCTURE	P3/BR2/0110	TENDONS ARRANGEMENT OF "I" GIRDER L=37.0M
	<b>ABUTMENTS</b>	P3/BR2/0120	REINFORCEMENT OF "I" GIRDER L=37.0M
P3/BR1/0250	GENERAL VIEW OF ABUTMENT A1	P3/BR2/0130	REINFORCEMENT OF DIAPHRAGMS
P3/BR1/0260	GENERAL VIEW OF ABUTMENT A2	P3/BR2/0140	DECK SLAB REINFORCEMENT - SHEET 1
P3/BR1/0270	ABUTMENT A1 - BORED PILE DETAILS, L=51.0M	P3/BR2/0150	DECK SLAB REINFORCEMENT - SHEET 2
P3/BR1/0280	ABUTMENT A2 - BORED PILE DETAILS, L=55.0M	P3/BR2/0160	DECK SLAB REINFORCEMENT - SHEET 3
P3/BR1/0290	REINFORCEMENT OF ABUTMENT A1 - SHEET 1	P3/BR2/0170	DETAILS OF BEARINGS
P3/BR1/0300	REINFORCEMENT OF ABUTMENT A1 - SHEET 2	P3/BR2/0180	DETAILS OF EXPANSION JOINTS
P3/BR1/0310	REINFORCEMENT OF ABUTMENT A1 - SHEET 3	P3/BR2/0190	QUANTITY TABLE OF SUPERSTRUCTURE
P3/BR1/0320	REINFORCEMENT OF ABUTMENT A2 - SHEET 1		<b>ABUTMENTS</b>
P3/BR1/0330	REINFORCEMENT OF ABUTMENT A2 - SHEET 2	P3/BR2/0200	GENERAL VIEW OF ABUTMENT A1
P3/BR1/0340	REINFORCEMENT OF ABUTMENT A2 - SHEET 3	P3/BR2/0210	GENERAL VIEW OF ABUTMENT A2
P3/BR1/0350	EARTHWORKS SLOPE PROTECTION - SHEET 1	P3/BR2/0220	ABUTMENT A1 - BORED PILE DETAILS, L=55.0M
P3/BR1/0360	EARTHWORKS SLOPE PROTECTION - SHEET 2	P3/BR2/0230	ABUTMENT A2 - BORED PILE DETAILS, L=55.0M
P3/BR1/0370	DETAILS OF APPROACH SLAB	P3/BR2/0240	REINFORCEMENT OF ABUTMENT A1 - SHEET 1
P3/BR1/0380	QUANTITY TABLE OF ABUTMENTS	P3/BR2/0250	REINFORCEMENT OF ABUTMENT A1 - SHEET 2
	<b>PIERS</b>	P3/BR2/0260	REINFORCEMENT OF ABUTMENT A1 - SHEET 3
P3/BR1/0390	GENERAL VIEW OF PIERS P1, P2, P3 & P4	P3/BR2/0270	REINFORCEMENT OF ABUTMENT A1 - SHEET 4
P3/BR1/0400	PIER P1 - BORED PILE DETAILS, L=49.0M	P3/BR2/0280	REINFORCEMENT OF ABUTMENT A2 - SHEET 1
P3/BR1/0410	PIER P2 - BORED PILE DETAILS, L=53.0M	P3/BR2/0290	REINFORCEMENT OF ABUTMENT A2 - SHEET 2
P3/BR1/0420	PIER P3 - BORED PILE DETAILS, L=53.0M	P3/BR2/0300	REINFORCEMENT OF ABUTMENT A2 - SHEET 3
P3/BR1/0430	PIER P4 - BORED PILE DETAILS, L=53.0M	P3/BR2/0310	REINFORCEMENT OF ABUTMENT A2 - SHEET 4
P3/BR1/0440	REINFORCEMENT OF PIERS P1 & P2 - SHEET 1	P3/BR2/0320	EARTHWORKS SLOPE PROTECTION - SHEET 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	K. Matsumoto	GENERAL DRAWING LIST (PART - 2) (1/2)	P3/PA2/0010
				SIGNATURE	<i>T. Kametani</i>	<i>K. Matsumoto</i>		
				DATE	20/9/2000	29/9/2000		

## DRAWING LIST (2/2)

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
P3/BR2/0330	EARTHWORKS SLOPE PROTECTION - SHEET 2	P3/BR3/0340	REINFORCEMENT OF ABUTMENT A2 - SHEET 1
P3/BR2/0340	DETAILS OF APPROACH SLAB - SHEET 1	P3/BR3/0350	REINFORCEMENT OF ABUTMENT A2 - SHEET 2
P3/BR2/0350	DETAILS OF APPROACH SLAB - SHEET 2	P3/BR3/0360	REINFORCEMENT OF ABUTMENT A2 - SHEET 3
P3/BR2/0360	QUANTITY TABLE OF ABUTMENTS MISCELLANEOUS	P3/BR3/0370	EARTHWORKS SLOPE PROTECTION - SHEET 1
P3/BR2/0370	DETAILS OF PARAPET AND RAILINGS	P3/BR3/0380	EARTHWORKS SLOPE PROTECTION - SHEET 2
P3/BR2/0380	BRIDGE NAME PLAQUE	P3/BR3/0390	DETAILS OF APPROACH SLAB - SHEET 1
P3/BR2/0390	DRAINAGE AND LIGHTING POLES LAYOUT	P3/BR3/0400	DETAILS OF APPROACH SLAB - SHEET 2
P3/BR2/0400	DETAILS OF DRAINAGE ON BRIDGE	P3/BR3/0410	QUANTITY TABLE OF ABUTMENTS PIERS
P3/BR2/0410	DETAILS OF LIGHTING POLE BASES	P3/BR3/0420	GENERAL VIEW OF PIERS P1 & P2
P3/BR2/0420	QUANTITY TABLE OF MISCELLANEOUS WORKS	P3/BR3/0430	PIERS P1 & P2 - BORED PILE DETAILS, L=52.0M
<b>P3/BR3</b>	<b>CAI DA BRIDGE</b>	P3/BR3/0440	REINFORCEMENT OF PIERS P1 & P2 - SHEET 1
	<b>GENERAL</b>	P3/BR3/0450	REINFORCEMENT OF PIERS P1 & P2 - SHEET 2
P3/BR3/0010	DRAWING LIST	P3/BR3/0460	PIERS PROTECTION
P3/BR3/0020	ABBREVIATIONS AND SYMBOLS	P3/BR3/0470	QUANTITY TABLE OF PIERS MISCELLANEOUS
P3/BR3/0030	STRUCTURAL NOTES	P3/BR3/0480	DETAILS OF PARAPET AND RAILINGS
P3/BR3/0040	LOCATION MAP	P3/BR3/0490	BRIDGE NAME PLAQUE
P3/BR3/0050	COORDINATES OF BRIDGE	P3/BR3/0500	DRAINAGE AND LIGHTING POLES LAYOUT
P3/BR3/0060	GENERAL VIEW - SHEET 1	P3/BR3/0510	DETAILS OF DRAINAGE ON BRIDGE
P3/BR3/0070	GENERAL VIEW - SHEET 2	P3/BR3/0520	DETAILS OF LIGHTING POLE BASES
P3/BR3/0080	GENERAL VIEW - SHEET 3	P3/BR3/0530	QUANTITY TABLE OF MISCELLANEOUS WORKS
P3/BR3/0090	QUANTITY TABLE OF BRIDGE SUPERSTRUCTURE		
P3/BR3/0100	GIRDER LAYOUT - SHEET 1		
P3/BR3/0110	GIRDER LAYOUT - SHEET 2		
P3/BR3/0120	GENERAL VIEW OF "I" GIRDER L=28.0M		
P3/BR3/0130	GENERAL VIEW OF "I" GIRDER L=37.0M		
P3/BR3/0140	TENDONS ARRANGEMENT OF "I" GIRDER L=28.0M		
P3/BR3/0150	TENDONS ARRANGEMENT OF "I" GIRDER L=37.0M		
P3/BR3/0160	TENDONS ARRANGEMENT OF CONNECTION DIAPHRAGMS		
P3/BR3/0170	REINFORCEMENT OF "I" GIRDER L=28.0M		
P3/BR3/0180	REINFORCEMENT OF "I" GIRDER L=37.0M		
P3/BR3/0190	REINFORCEMENT OF DIAPHRAGMS - SHEET 1		
P3/BR3/0200	REINFORCEMENT OF DIAPHRAGMS - SHEET 2		
P3/BR3/0210	DECK SLAB REINFORCEMENT - SHEET 1		
P3/BR3/0220	DECK SLAB REINFORCEMENT - SHEET 2		
P3/BR3/0230	DECK SLAB REINFORCEMENT - SHEET 3		
P3/BR3/0240	DECK SLAB REINFORCEMENT - SHEET 4		
P3/BR3/0250	DETAILS OF BEARINGS		
P3/BR3/0260	DETAILS OF EXPANSION JOINTS		
P3/BR3/0270	QUANTITY TABLE OF SUPERSTRUCTURE ABUTMENTS		
P3/BR3/0280	GENERAL VIEW OF ABUTMENT A1		
P3/BR3/0290	GENERAL VIEW OF ABUTMENT A2		
P3/BR3/0300	ABUTMENT A1 & A2 - BORED PILE DETAILS, L=55.0M		
P3/BR3/0310	REINFORCEMENT OF ABUTMENT A1 - SHEET 1		
P3/BR3/0320	REINFORCEMENT OF ABUTMENT A1 - SHEET 2		
P3/BR3/0330	REINFORCEMENT OF ABUTMENT A1 - SHEET 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	<b>JICA</b> JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	<b>NIPPON KOEI CO.,LTD.</b>	NAME	T. Kametani	K. Matsumoto	GENERAL DRAWING LIST (PART - 2) (2/2)	P3/PA2/0020
				SIGNATURE	<i>T. Kametani</i>	<i>K. Matsumoto</i>		
				DATE	20/9/2000	29/9/2000		

**P3/BR1 CAITAC 1 BRIDGE**



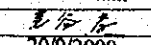
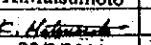
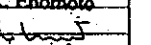


# I. GENERAL

## DRAWING LIST OF CAI TAC 1 BRIDGE






Drawing No.	Drawing Name
<b>I</b>	<b>GENERAL</b>
P3/BR1/0010	DRAWING LIST
P3/BR1/0020	ABBREVIATIONS AND SYMBOLS
P3/BR1/0030	STRUCTURAL NOTES
P3/BR1/0040	LOCATION MAP
P3/BR1/0050	COORDINATES OF BRIDGE
P3/BR1/0060	GENERAL VIEW - SHEET 1
P3/BR1/0070	GENERAL VIEW - SHEET 2
P3/BR1/0080	QUANTITY TABLE OF BRIDGE
<b>II</b>	<b>SUPERSTRUCTURE</b>
P3/BR1/0090	GIRDER LAYOUT - SHEET 1
P3/BR1/0100	GIRDER LAYOUT - SHEET 2
P3/BR1/0110	GENERAL VIEW OF GIRDER L=37.0M.
P3/BR1/0120	TENDONS ARRANGEMENT OF GIRDER L=37.0M.
P3/BR1/0130	TENDONS ARRANGEMENT OF CONNECTION DIAPHRAGMS.
P3/BR1/0140	REINFORCEMENT OF GIRDER L=37.0M - SHEET 1
P3/BR1/0150	REINFORCEMENT OF GIRDER L=37.0M - SHEET 2
P3/BR1/0160	REINFORCEMENT OF GIRDER L=37.0M - SHEET 3
P3/BR1/0170	REINFORCEMENT OF DIAPHRAGMS
P3/BR1/0180	DECK SLAB REINFORCEMENT - SHEET 1
P3/BR1/0190	DECK SLAB REINFORCEMENT - SHEET 2
P3/BR1/0200	DECK SLAB REINFORCEMENT - SHEET 3
P3/BR1/0210	DECK SLAB REINFORCEMENT - SHEET 4
P3/BR1/0220	DETAILS OF BEARINGS.
P3/BR1/0230	DETAILS OF EXPANSION JOINTS
P3/BR1/0240	QUANTITY TABLE OF SUPERSTRUCTURE

Drawing No.	Drawing Name
<b>III</b>	<b>ABUTMENTS</b>
P3/BR1/0250	GENERAL VIEW OF ABUTMENTS A1
P3/BR1/0260	GENERAL VIEW OF ABUTMENTS A2
P3/BR1/0270	ABUTMENT A1- BORED PILE DETAILS, L=51.0M
P3/BR1/0280	ABUTMENT A2- BORED PILE DETAILS, L=55.0M
P3/BR1/0290	REINFORCEMENT OF ABUTMENT A1 - SHEET 1
P3/BR1/0300	REINFORCEMENT OF ABUTMENT A1 - SHEET 2
P3/BR1/0310	REINFORCEMENT OF ABUTMENT A1 - SHEET 3
P3/BR1/0320	REINFORCEMENT OF ABUTMENT A2 - SHEET 1
P3/BR1/0330	REINFORCEMENT OF ABUTMENT A2 - SHEET 2
P3/BR1/0340	REINFORCEMENT OF ABUTMENT A2 - SHEET 3
P3/BR1/0350	EARTHWORKS SLOPE PROTECTION - SHEET 1
P3/BR1/0360	EARTHWORKS SLOPE PROTECTION - SHEET 2
P3/BR1/0370	DETAILS OF APPROACH SLAB
P3/BR1/0380	QUANTITY TABLE OF ABUTMENTS
<b>IV</b>	<b>PIERS</b>
P3/BR1/0390	GENERAL VIEW OF PIERS P1, P2, P3 & P4
P3/BR1/0400	PIER P1 - BORED PILE DETAILS, L=49.0M
P3/BR1/0410	PIER P2 - BORED PILE DETAILS, L=53.0M
P3/BR1/0420	PIER P3 - BORED PILE DETAILS, L=53.0M
P3/BR1/0430	PIER P4 - BORED PILE DETAILS, L=53.0M
P3/BR1/0440	REINFORCEMENT OF PIERS P1 & P2 - SHEET 1
P3/BR1/0450	REINFORCEMENT OF PIERS P1 & P2 - SHEET 2
P3/BR1/0460	REINFORCEMENT OF PIERS P3 & P4 - SHEET 1
P3/BR1/0470	REINFORCEMENT OF PIERS P3 & P4 - SHEET 2
P3/BR1/0480	PIER PROTECTION
P3/BR1/0490	QUANTITY TABLE OF PIERS
<b>V</b>	<b>MISCELLANEOUS</b>
P3/BR1/0500	DETAILS OF PARAPET AND RAILINGS
P3/BR1/0510	BRIDGE NAME PLAQUE
P3/BR1/0520	DRAINAGE AND LIGHTING POLES LAYOUT
P3/BR1/0530	DETAILS OF DRAINAGE ON BRIDGE
P3/BR1/0540	DETAILS OF LIGHTING POLE BASES
P3/BR1/0550	QUANTITY TABLE OF MISCELLANEOUS WORKS

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
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## 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	LEGNTH 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
BOX	BOX CULVERT	M <sup>2</sup>	SQUARE METER
C	CUT	M <sup>3</sup>	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

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	CAI TAC 1 BRIDGE GENERAL ABBREVIATIONS AND SYMBOLS	P3/BR1/0020

# 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 REFERRED 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/M<sup>2</sup> - 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

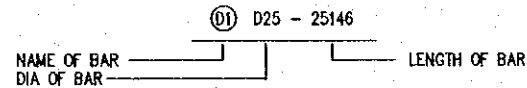
- 3.1. UNLESS OTHERWISE INDICATED CONCRETE SHALL BE OF THE FOLLOWING GRADES BASED ON 28 DAY CYLINDER STRENGTH  $f_c$ :

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 INDICATED AS RANDOM LENGTH MAY BE LAP SPICED 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 INDICATED 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 WRES 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

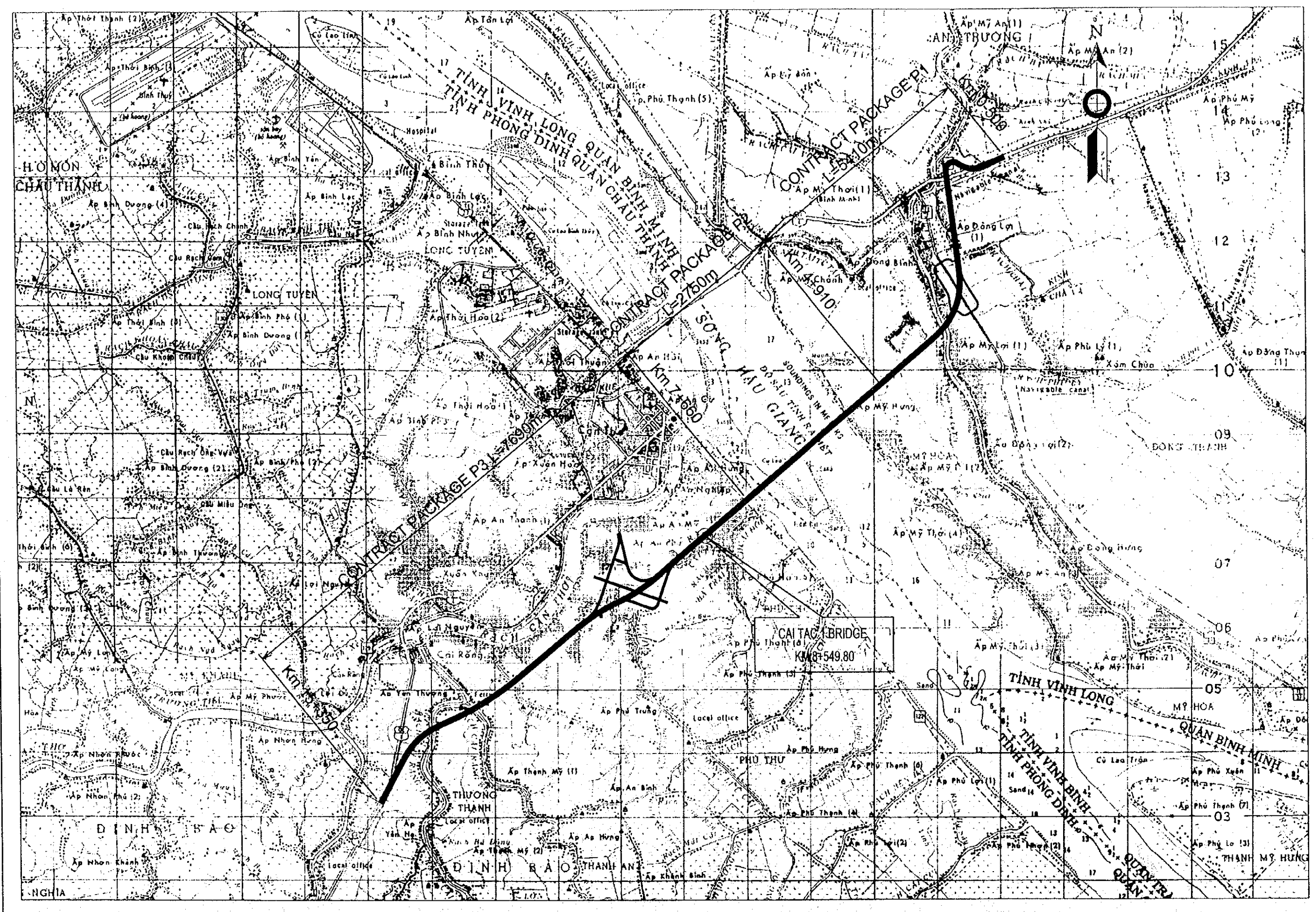
- 7.1. SUPERSTRUCTURE IS DESIGNED ON THE BASIS OF CONSTRUCTION SEQUENCE DETAILED ON THE DRAWINGS. ANY CHANGES TO THE CONSTRUCTION SEQUENCE WILL REQUIRE A RE-DESIGN OF THE BRIDGE.
- 7.2. THE SUPERSTRUCTURE DESIGN IS BASED ON THE USE OF INTERNAL PRESTRESSING WITH THE FOLLOWING PARAMETERS:

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 KOBİ CO.,LTD.	NAME: T. Kaanetani SIGNATURE: DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE: DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: DATE: 5/10/2000	CAI TAC I BRIDGE GENERAL STRUCTURAL NOTES	P3/BR1/0030

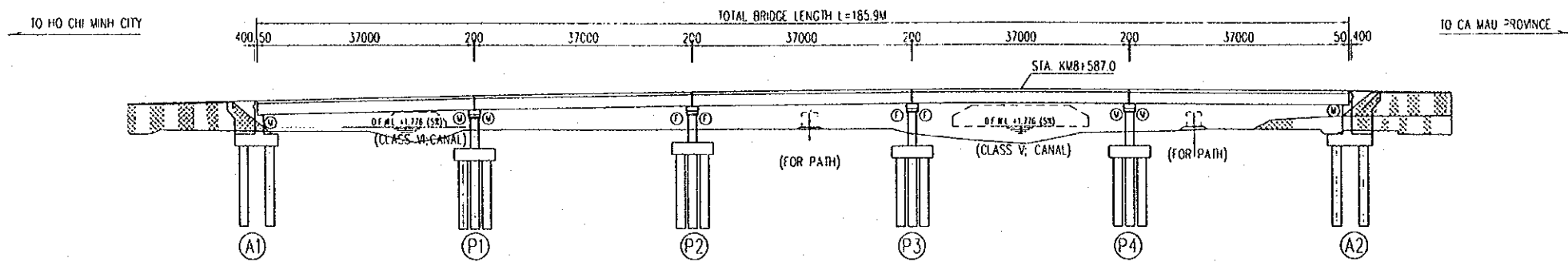
\\D:\ieu anh\br1-ca1 tac\drawings\general\p3-br1-0040.dwg Mon Sep 04 14:06:55 2000 Drawn by Phong



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	K. Matsumoto	CAI TAC I BRIDGE GENERAL LOCATION MAP	P3/BR1/0040
				SIGNATURE	<i>T. Kametani</i>	<i>K. Matsumoto</i>		
				DATE	20/9/2000	29/9/2000		
					K. Enomoto	5/10/2000		

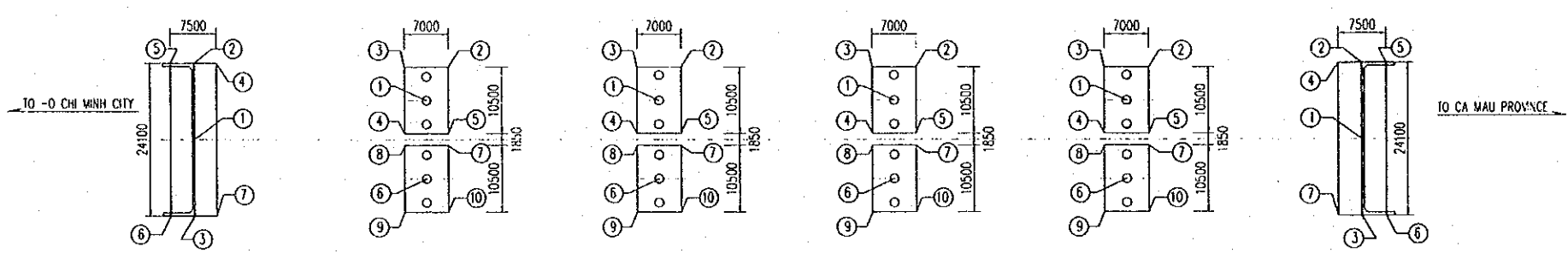
### SIDE ELEVATION

(SCALE 1:1000)



### PLAN

(SCALE 1:1000)



### COORDINATES TABLE

POINT	A1		P1		P2		P3		P4		A2	
	N	E	N	E	N	E	N	E	N	E	N	E
	587096.798	1108286.524	587071.920	1108258.251	587043.099	1108234.731	587014.278	1108211.211	586985.457	1108187.691	586952.771	1108168.986
	587104.417	1108277.188	587072.527	1108251.971	587043.706	1108228.451	587014.886	1108204.931	586986.065	1108181.410	586960.389	1108159.650
	587089.179	1108295.859	587077.951	1108258.397	587049.130	1108232.876	587020.309	1108209.356	586991.488	1108185.836	586945.152	1108178.322
	587101.627	1108274.912	587071.312	1108264.532	587042.491	1108241.011	587013.670	1108217.491	586984.849	1108193.971	586957.368	1108157.185
	587107.438	1108279.653	587065.889	1108260.106	587037.068	1108236.586	587008.247	1108213.056	586979.426	1108189.545	586963.179	1108161.927
	587092.201	1108298.325	587064.111	1108267.819	587035.290	1108244.299	587006.469	1108220.779	586977.648	1108197.259	586947.941	1108180.598
	587086.390	1108293.583	587064.719	1108261.539	587035.898	1108238.019	587007.077	1108214.499	586978.256	1108190.979	586942.130	1108175.856
			587070.142	1108265.965	587041.321	1108242.445	587012.500	1108218.925	586983.679	1108195.405		
			587063.503	1108274.100	587034.683	1108250.580	587005.862	1108227.060	586977.041	1108203.539		
			587058.080	1108269.674	587029.259	1108246.154	587000.438	1108222.634	586971.617	1108199.114		

### NOTES

1. FOR STANDARD STRUCTURAL NOTES SEE DRAWING No. P3/BR1/0030

2. SYMBOLS :

- ⊕: FIXED BEARING
- ⊙: MOVABLE BEARING

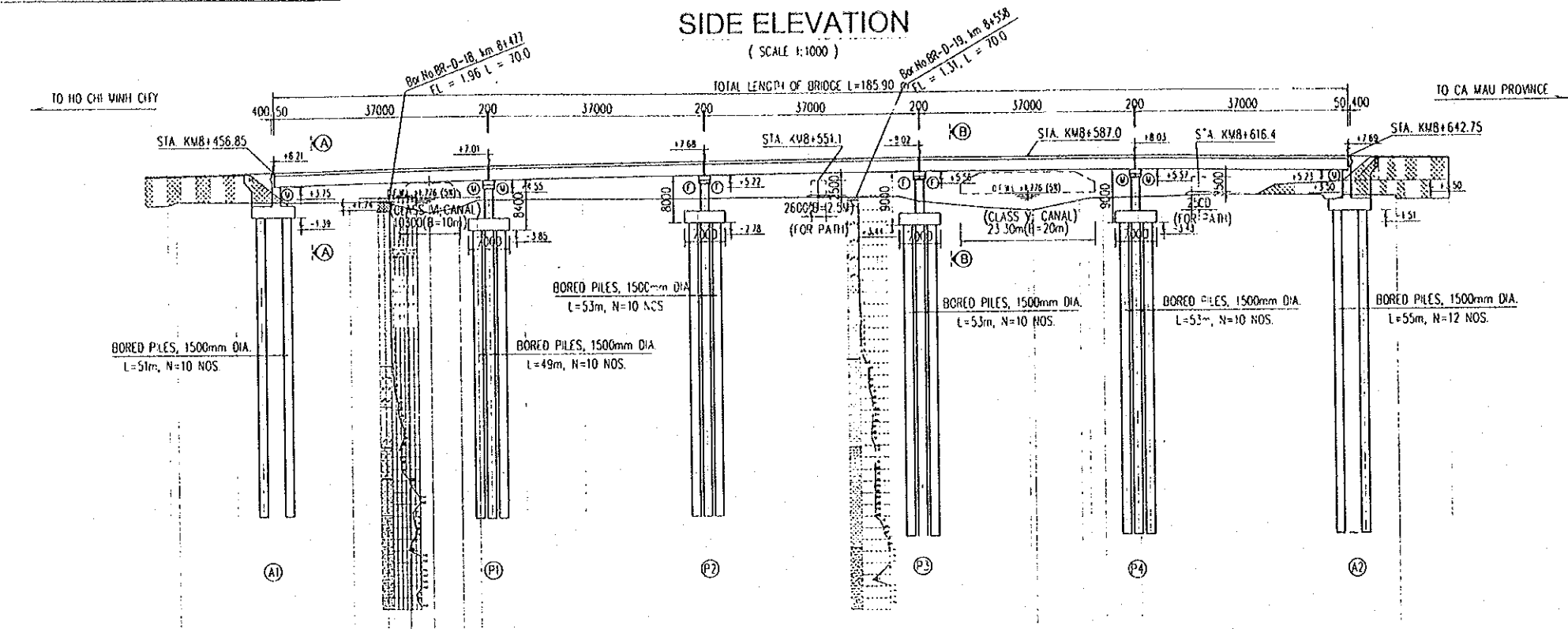
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO., LTD.	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	CAI TAC I BRIDGE GENERAL COORDINATES OF BRIDGE	P3/BR1/0050

\\Dieu anh\br1-cai tac\drawings\general\P3-BR1-0050.dwg Wed Sep 06 08:37:55 2000 Drawn by Phong

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### SIDE ELEVATION

(SCALE 1:1000)

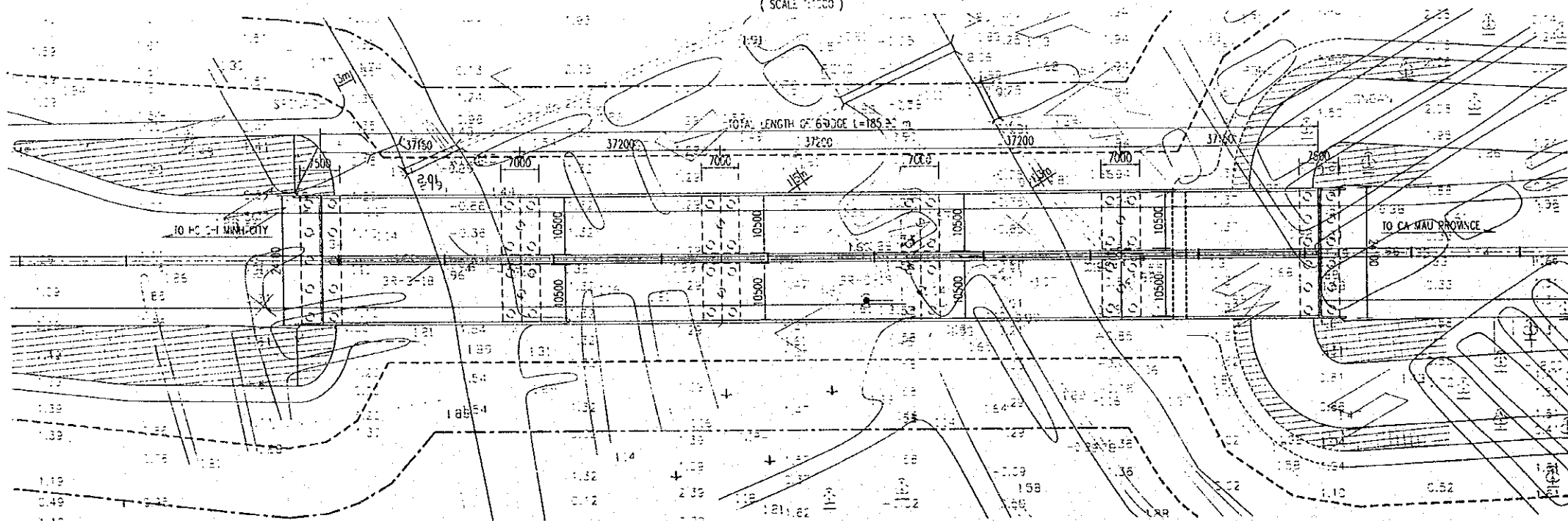


DATUM LEVEL -70.00

GRADIENT	2.15% L=207M		VERTICAL CURVE R=4071m L=175m										2.15% L=213M																				
SUPERELEVATION	-2%																																
DESIGN LEVELS (m)	6.209		7.008		7.684		8.075		8.066		8.075		7.687																				
EXISTING LEVELS (m)	1.203	0.600	0.700	1.310	1.200	1.100	1.100	0.040	-0.800	0.100	1.250	1.320	1.300	1.290	1.350	1.470	1.400	1.400	1.400	0.800	-0.610	-1.100	0.860	0.840	1.000	1.370	1.200	0.300	0.300	1.100	1.000	0.400	0.330
STATION	8454.50	8455.50	8456.50	8460.00	8450.00	8460.00	8470.00	8476.00	8480.00	8484.00	8488.00	8492.00	8500.00	8510.00	8570.00	8530.00	8540.00	8550.00	8560.00	8565.00	8568.00	8580.00	8588.00	8597.50	8600.00	8610.00	8620.00	8630.00	8640.00	8642.00	8651.00	8660.00	

### PLAN

(SCALE 1:1000)



### NOTES

- FOR STANDARD STRUCTURAL NOTES SEE DRAWING No. P3/BR1/0030
- ELEVATIONS ARE IN METERS IN REFERENCE TO THE NATIONAL DATUM LEVEL.
- SYMBOLS:
  - ⊕: FIXED BEARING
  - ⊙: MOVABLE BEARING

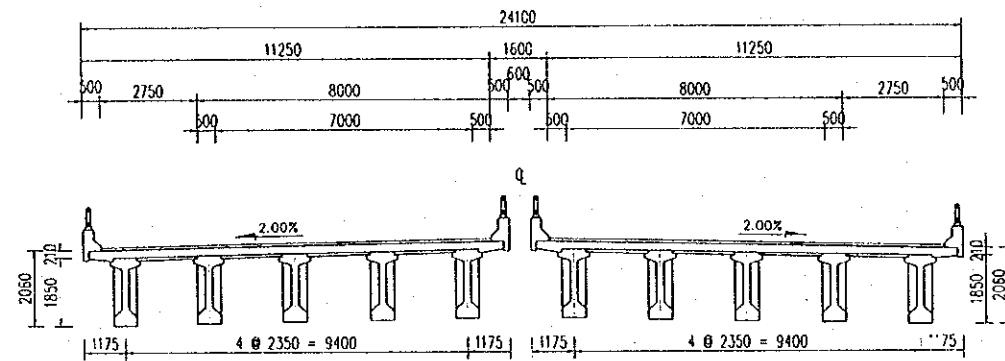
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.	
				NAME	T. Kametani	K. Matsumoto			K. Enomoto
				SIGNATURE	<i>T. Kametani</i>	<i>K. Matsumoto</i>			<i>K. Enomoto</i>
DATE	20/9/2000	29/9/2000	5/10/2000	GENERAL VIEW - SHEET 1		P3/BR1/0060			

\\Dieu anh\br1-cai tac\drawings\general\p3-br1-0060-0070.dwg Wed Sep 06 08:46:09 2000 Drawn by Phong

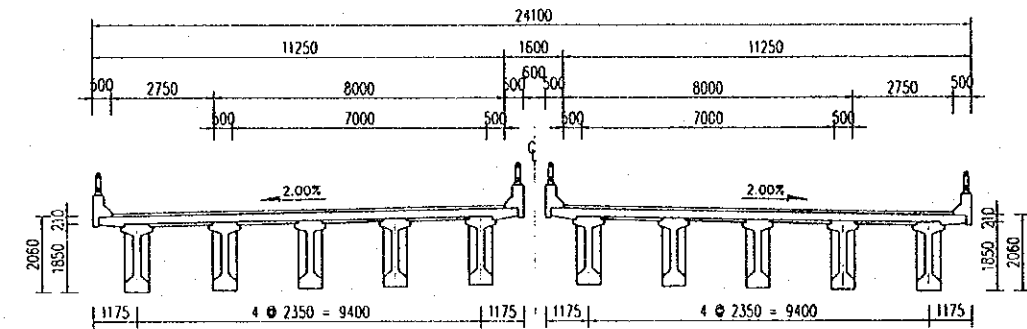
## TYPICAL SECTIONS FOR SUPERSTRUCTURE

(SCALE 1:200)

### AT ABUTMENT A1 & A2



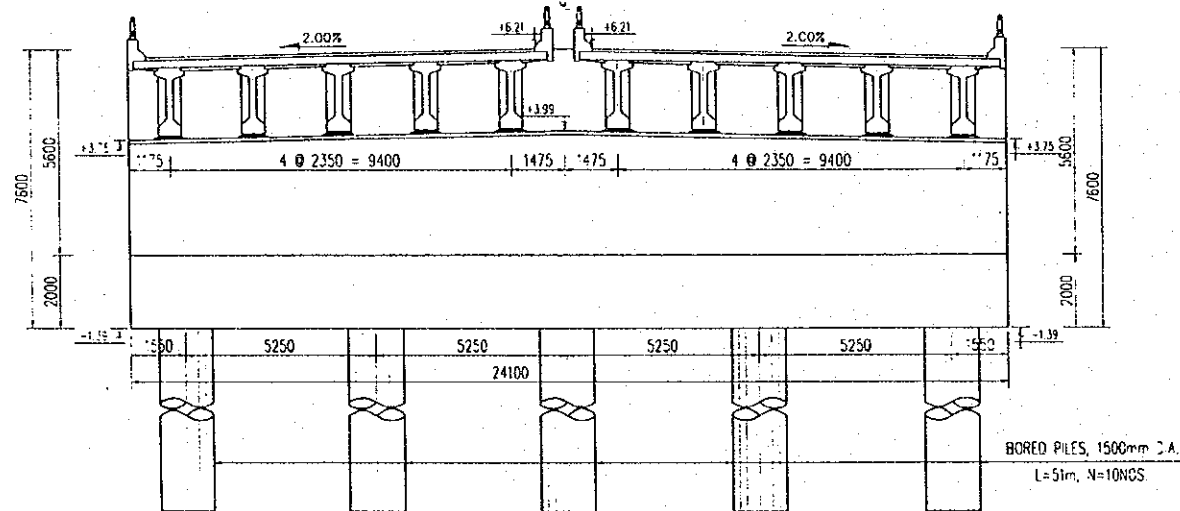
### AT PIER P1, P2, P3, P4



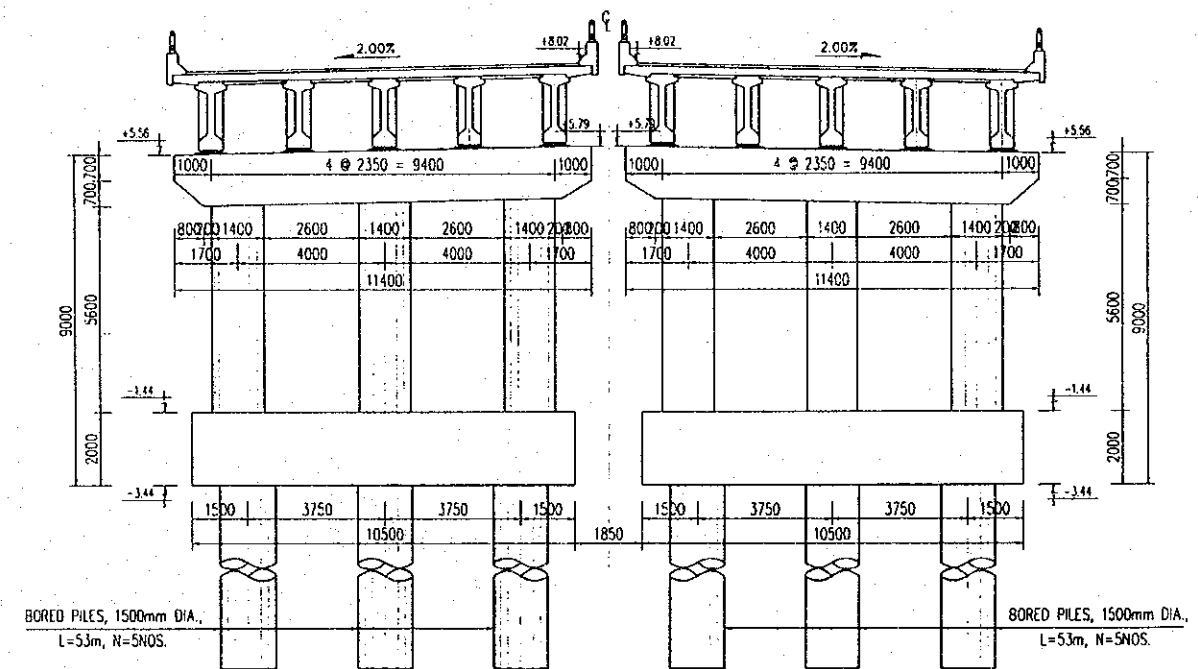
## CROSS SECTIONS

(SCALE 1:200)

### A - A (ABUTMENT A1)



### B - B (PIER P3)



## NOTES

FOR STANDARD STRUCTURAL NOTES SEE DRAWING No. P3/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	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	CAI TAC 1 BRIDGE GENERAL GENERAL VIEW - SHEET 2	P3/BR1/0070
				SIGNATURE 	SIGNATURE 	SIGNATURE 		
				DATE 20/9/2000	DATE 29/9/2000	DATE 5/10/2000		



## QUANTITY TABLE OF CAI TAC 1 BRIDGE

ITEMS	UNIT	ABUTMENTS	PIERS	SUPERSTRUCTURE	MISCELLANEOUS WORKS			TOTAL
					DRAINAGE	LIGHTING	RAILING	
CONCRETE	CLASS B	M3		1461.3				1461
	CLASS D	M3	2071.4	3682.7	1402.4			7157
	CLASS E	M3	1202.5	1610.4		0.44	190	3003
	CLASS G	M3	60.2	160.2				220
PC - CABLE	12 S12.7	TON		85.4				85
	3 S12.7	TON		3.4				3
SHEATHING	φ 80/85	M		9188.8				9189
	φ 50/55	M		1447.2				1447
	CEMENT GROUT IN SHEATHING	M3		49.0				49
ANCHORAGE	CABLES 12S12.7	DEAD	SET					
		LIVE	SET		500			500
	CABLES 3S12.7	DEAD	SET		288			288
		LIVE	SET		288			288
STEEL SHEAR KEY	SET			600			600	
REINFORCEMENT	D32	KG	27272	73123				100395
	D28	KG	25977	30203				56179
	D25	KG	80176	110014	12831			203021
	D22	KG	15313	41187	61536			118036
	D20	KG	19218	5776	127447		103	152144
	D18	KG	650					650
	D16	KG	15993	8289	16453		54	40789
	D14	KG	5906	13860	278291			29446
	D12	KG			15541			15541
	D10	KG	19394	33143	904			53940
	D8	KG						
	D6	KG			24154			24154
TOTAL	KG	213298	315595	537156		158	29446	1092651
EXPANSION JOINT	50MM	M		43.00				43.00
BEARING	600x300x57	SET		100				100
ANCHORAGE BAR	φ 75, L=1500	SET		80				80
STEEL RAILING		M					764.80	764.80
LIGHTING POLE	POLE	SET				5		5
	PIPE φ 100	M				744.00		
DRAINAGE	POT	SET			24			24
	PIPE φ 180	M			34.80			34.80
PAVEMENT	WATER PROOFING 5MM	M2		3977.50				3977.50
	ASPHALT CONCRETE 70 MM	M2		3977.50				3977.50
GEOTEXTILE		M2	915.42					915.42
STONE MANSORY		M3	1036.98					1036.98
BLINDING AGGREGATE		M3	345.59					345.59
RIP RAP		M3		1624.67				1624.67
BLINDING STONE		M3	67.07	47.49				114.56
WOODEN PILE L = 3M		M	13391.43					13391.43
EXCAVATION		M3	5274.83	10393.88				15668.71
BACK FILL		M3	1723.44	3310.55				5033.99
BORED PILE φ 1500MM		M	1170.00	208.00				1378.00
PVC PIPE	φ 50MM	M	111.60					111.60

### NOTES

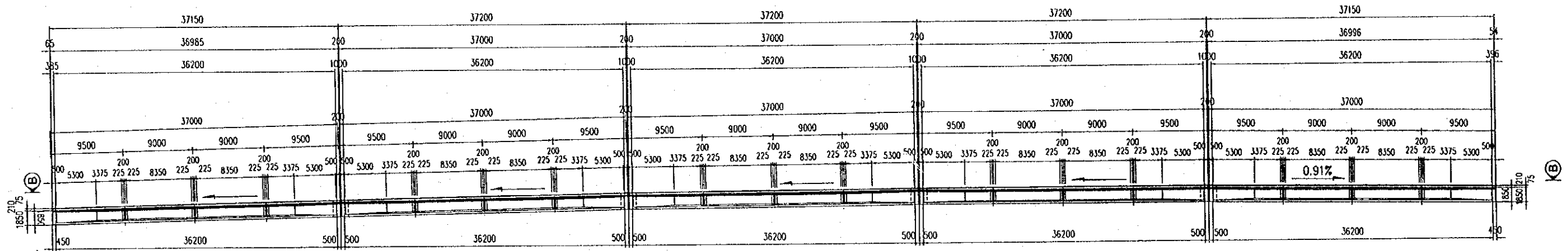
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P3/BR1/0030.

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	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	NAME K. Matsumoto SIGNATURE <i>K. Matsumoto</i> DATE 29/9/2000	NAME K. Enomoto SIGNATURE <i>K. Enomoto</i> DATE 5/10/2000	CAI TAC 1 BRIDGE GENERAL QUANTITY TABLES OF BRIDGE	P3/BR1/0080

## II. SUPERSTRUCTURE

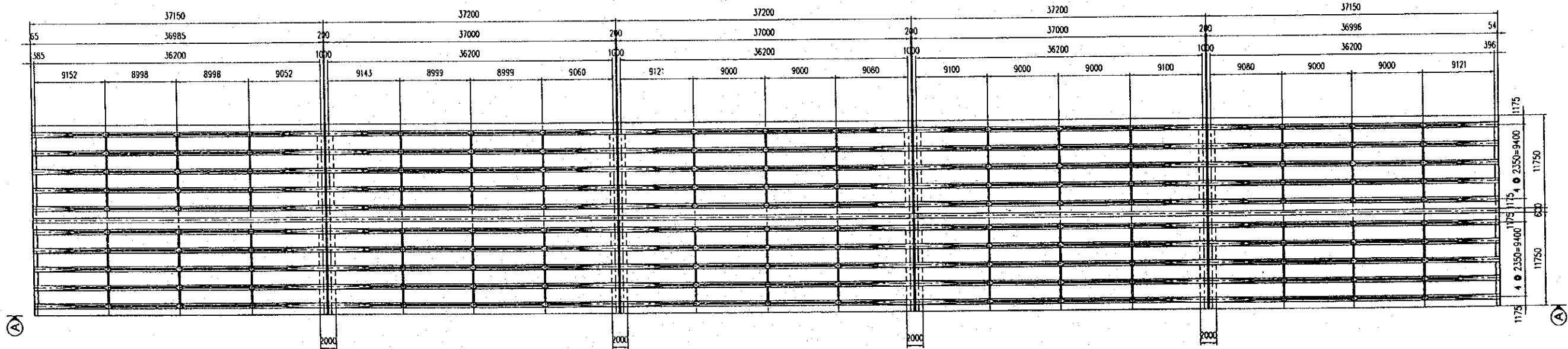
### SECTION A - A

(SCALE 1 : 500)



### SECTION B - B

(SCALE 1 : 500)

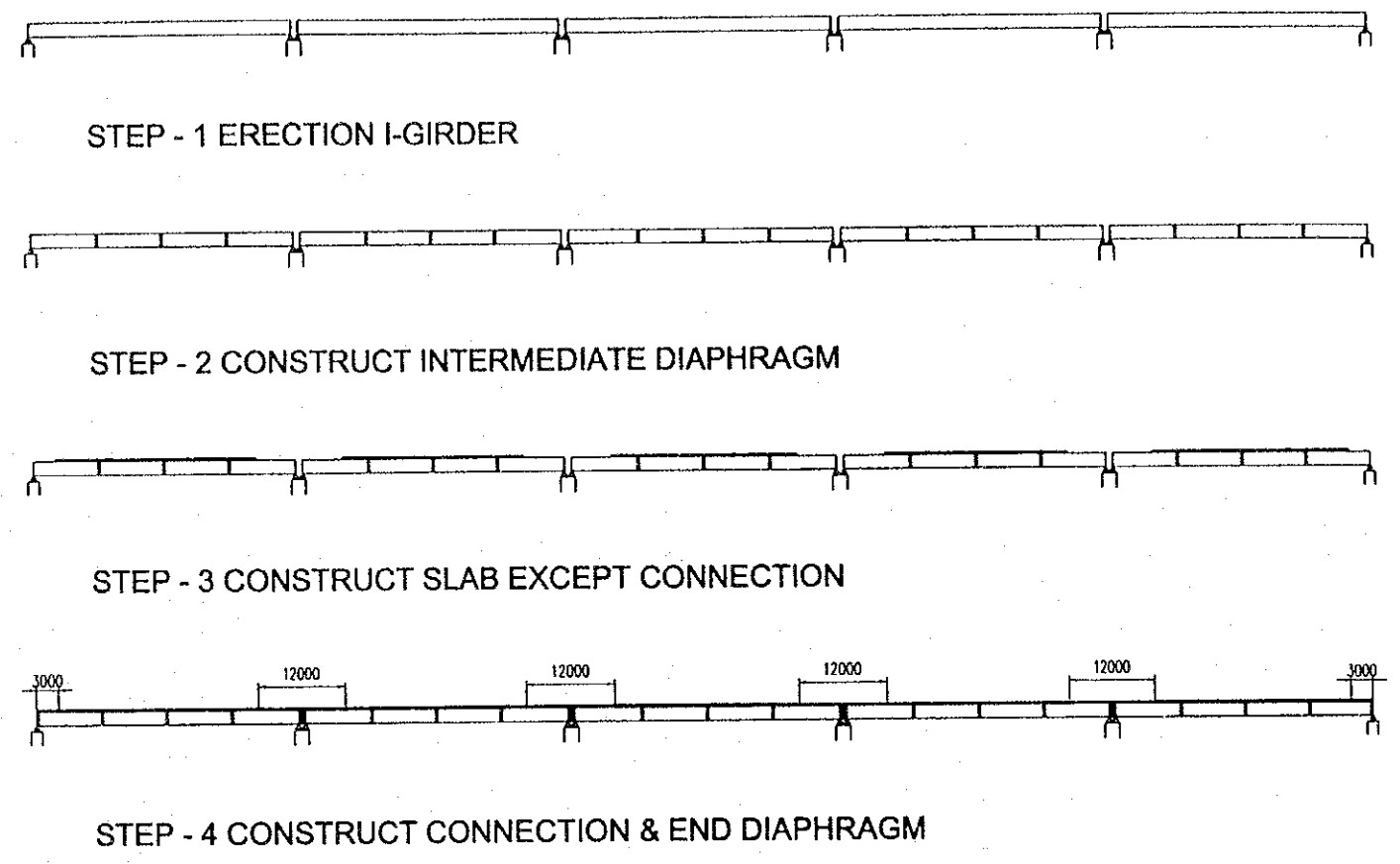
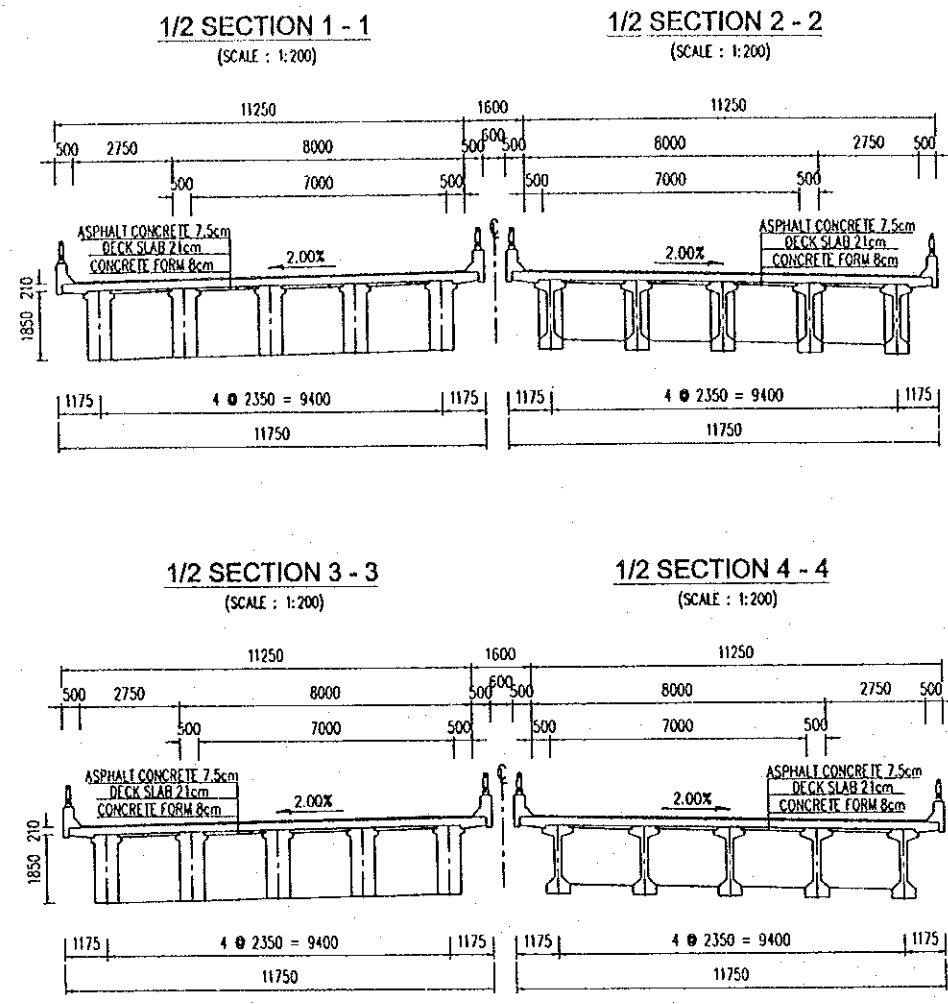


### NOTES :

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR1/0030.

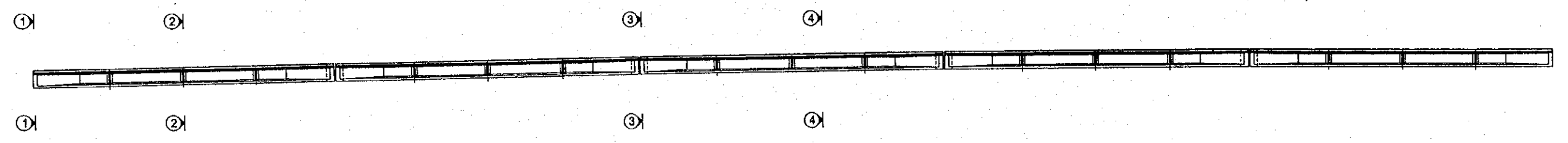
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOBI CO.,LTD.	T. Kametani	K. Matsumoto	K. Enomoto	CAI TAC 1 BRIDGE SUPERSTRUCTURE GIRDER LAYOUT - SHEET 1	P3/BR1/0090
				SIGNATURE				
				DATE	20/9/2000	29/9/2000		

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**CONSTRUCTION SEQUENCE**

**MARKING DIAGRAM**



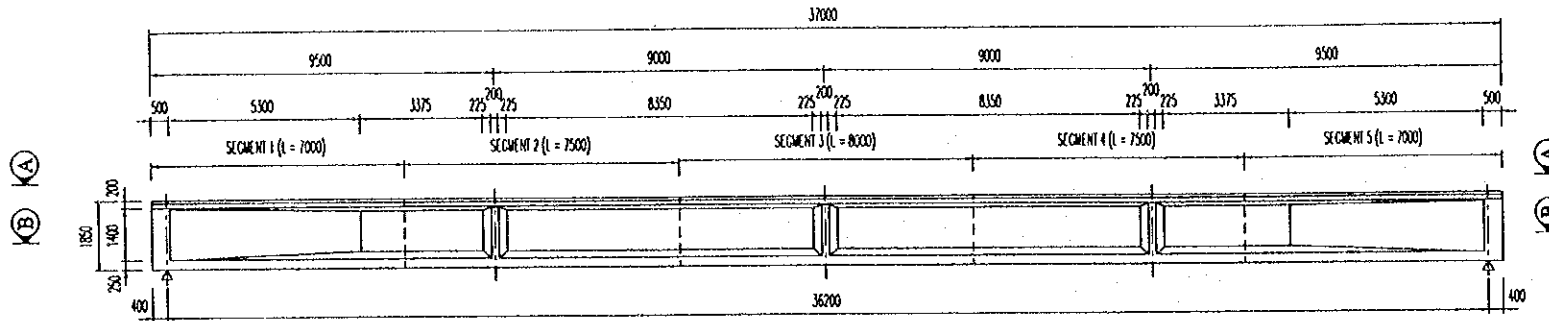
**NOTES :**

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR1/0030.

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 KOBI CO.,LTD.	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE CAI TAC 1 BRIDGE SUPERSTRUCTURE GIRDER LAYOUT - SHEET 2	DWG NO. P3/BR1/0100	
				NAME	T. Kametani	K. Matsumoto			K. Enomoto
				SIGNATURE	<i>T. Kametani</i>	<i>K. Matsumoto</i>			<i>K. Enomoto</i>
				DATE	20/9/2000	29/9/2000	5/10/2000		

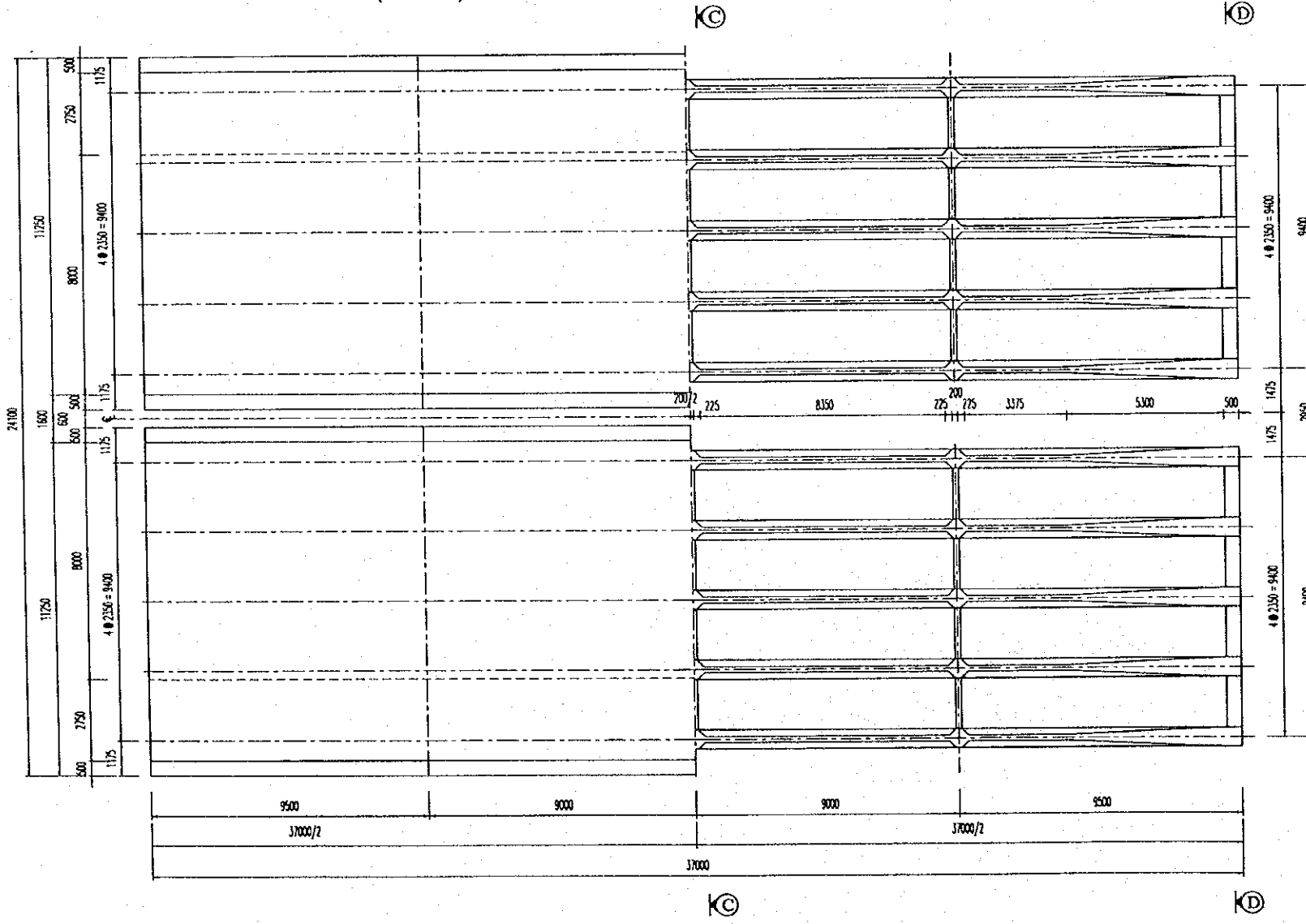
**DETAIL OF SUPER STRUCTURE FOR CAI TAC 1 BRIDGE**  
(Ls = 36.2M)

**ELEVATION**  
(SCALE : 1:200)



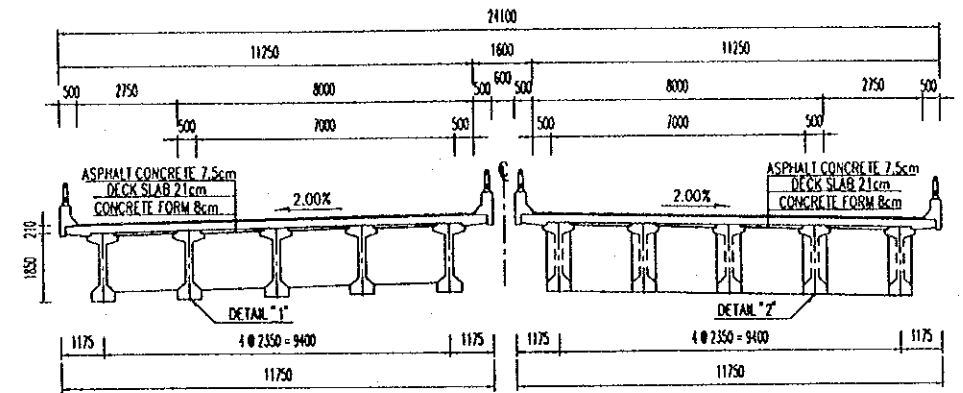
**1/2 SECTION A - A**  
(SCALE : 1:200)

**1/2 SECTION B - B**  
(SCALE : 1:200)



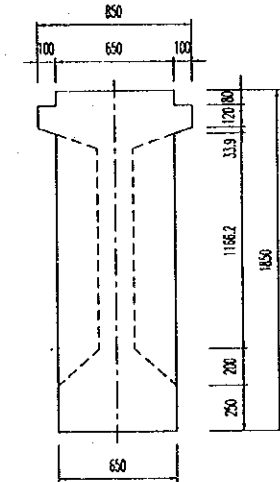
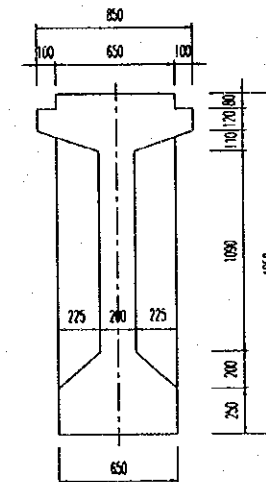
**1/2 SECTION C - C**  
(SCALE : 1:200)

**1/2 SECTION D - D**  
(SCALE : 1:200)



**DETAIL "1"**  
(SCALE : 1:40)

**DETAIL "2"**  
(SCALE : 1:40)



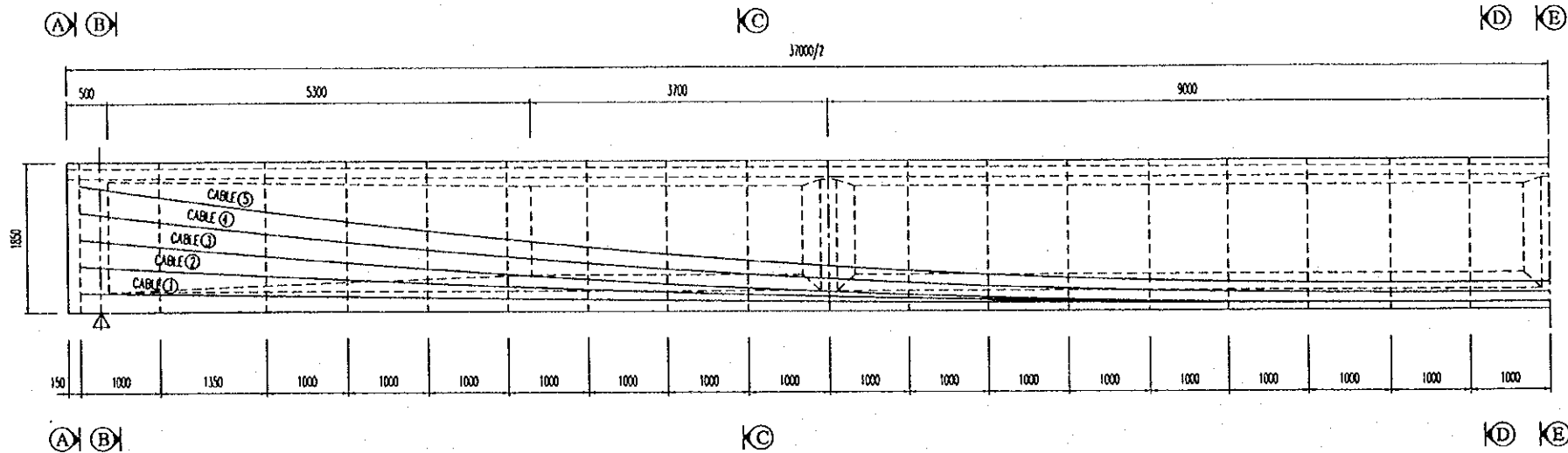
**NOTES :**

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR1/0030.

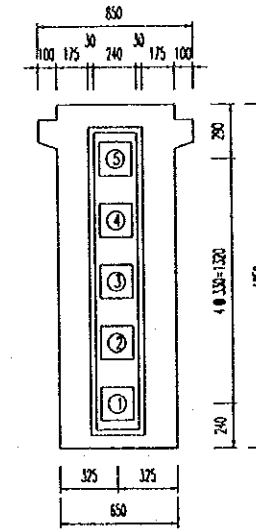
PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM NIPPON KOEI CO.,LTD.	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE CAI TAC 1 BRIDGE SUPERSTRUCTURE GENERAL VIEW OF "I" GIRDER L = 37M	DWG NO. P3/BR1/0110	
				NAME	T. Kametani	K. Matsumoto			K. Enomoto
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

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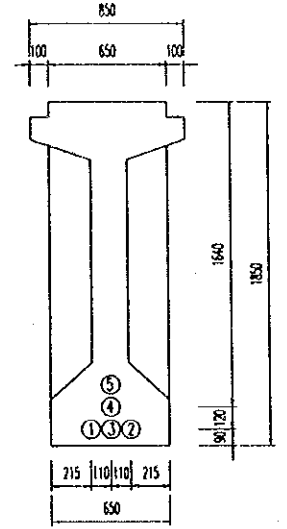
# PC CABLES ARRANGEMENT OF GIRDER FOR CAI TAC 1 BRIDGE (Ls = 36.2M)



**SECTION A - A**  
(SCALE 1 : 40)



**SECTION E - E**  
(SCALE 1 : 40)



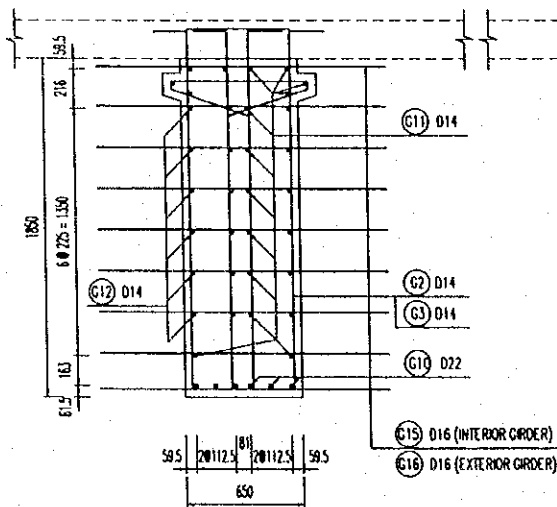
**POSITION OF CABLE CENTER FROM BOTTOM OF GIRDER**

L	18350	17350	16000	15000	14000	13000	12000	11000	10000	9000	8000	7000	6000	5000	4000	3000	2000	1000
CABLE ①	240	223	200	185	171	158	146	136	126	118	110	104	99	95	92	91	90	90
CABLE ②	570	515	443	395	350	308	270	236	205	178	155	135	119	106	97	92	90	90
CABLE ③	900	807	686	604	528	458	394	336	285	239	200	166	139	117	102	93	90	90
CABLE ④	1230	1112	961	857	762	673	593	520	455	398	348	306	271	245	225	214	210	210
CABLE ⑤	1560	1418	1235	1111	995	889	792	704	626	556	496	446	404	372	349	335	330	330

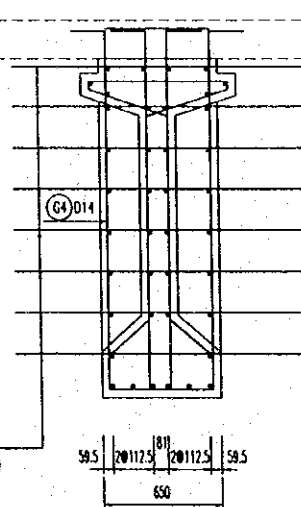
PC CABLE 12 S 12.7					(UNIT : MM)
CABLE No	L1	L2	L3	2xΣLi	α
①	1000	15351	2000	36702	0°58'
②	1002	15355	2000	36714	2°52'
③	1004	15373	2000	36754	5°20'
④	1007	15385	2000	36784	6°42'
⑤	1010	15401	2000	36822	8°4'

WEIGHT = 183.78 x 9.29 kg/m = 1707.3 kg  
 SHEATHING Ø80/85 : 183.8 M  
 ANCHORAGE : 10 SET (FOR 1 GIRDER)  
 CEMENT GROUT IN SHEATHING : 0.923 M3  
 CONCRETE : 29.23 M3

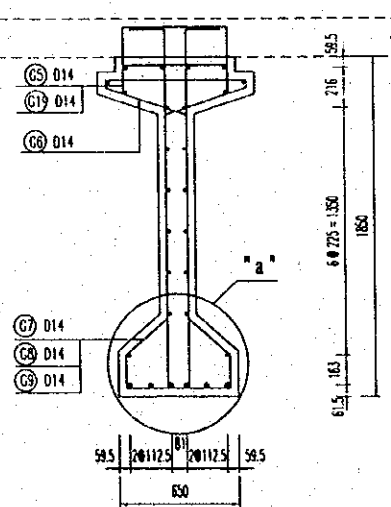
**SECTION B - B**  
(SCALE : 1:40)



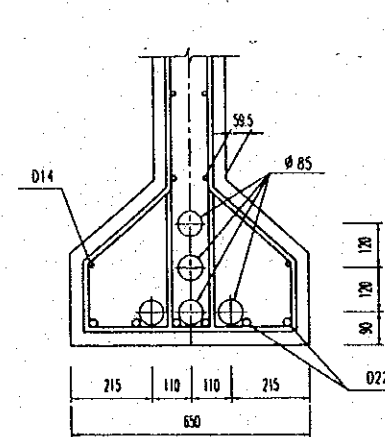
**SECTION C - C**  
(SCALE : 1:40)



**SECTION D - D**  
(SCALE : 1:40)



**DETAIL "a"**  
(SCALE 1:20)



**NOTES :**

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR1/0030.

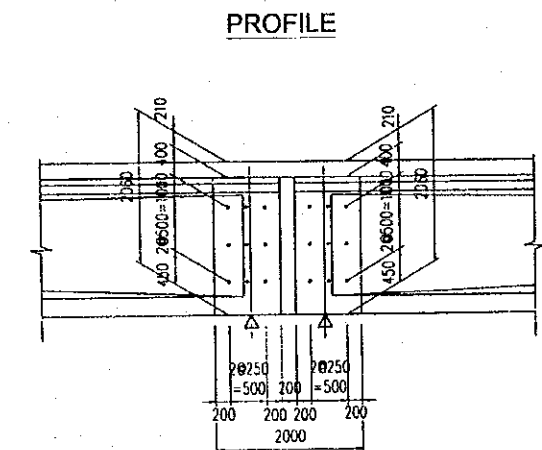
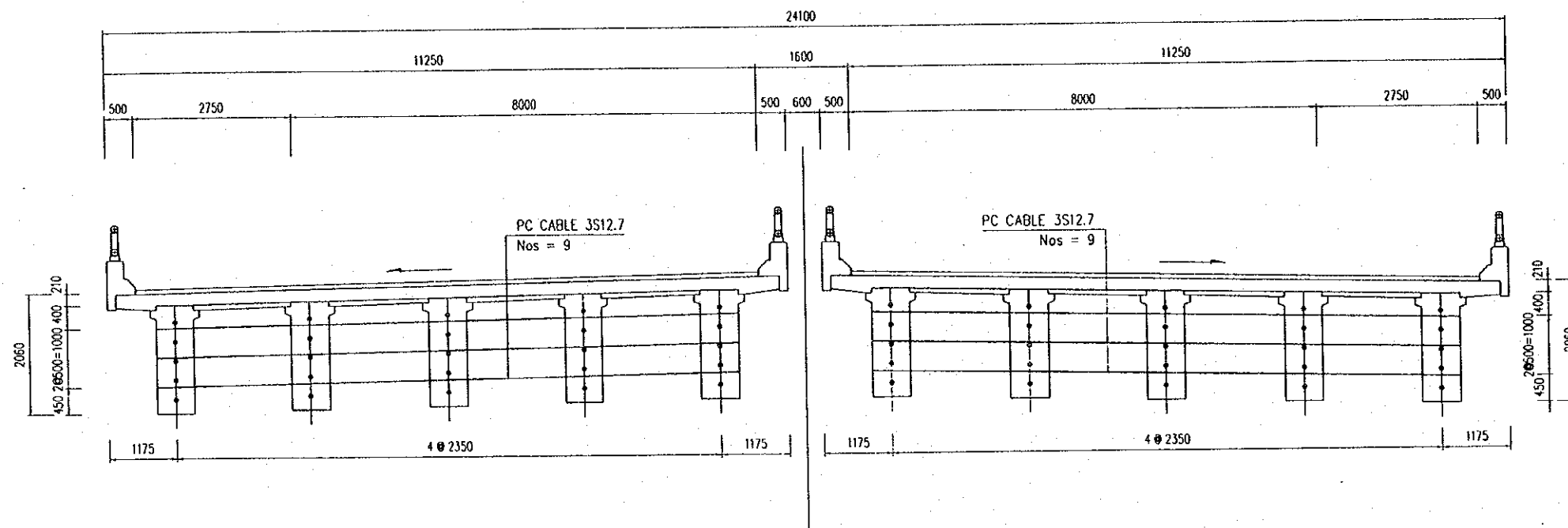
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	T. Kametani 20/9/2000	K. Matsumoto 29/9/2000	K. Enomoto 5/10/2000	CAI TAC 1 BRIDGE SUPERSTRUCTURE TENDON ARRANGEMENT OF "I" GIRDER L=37M	P3/BR1/0120

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# CONNECTION DIAPHRAGM (AT P1,P2,P3,P4)

(SCALE 1 : 100)

## SECTION OF "I" GIRDER L = 37M



### TOTAL QUANTITY

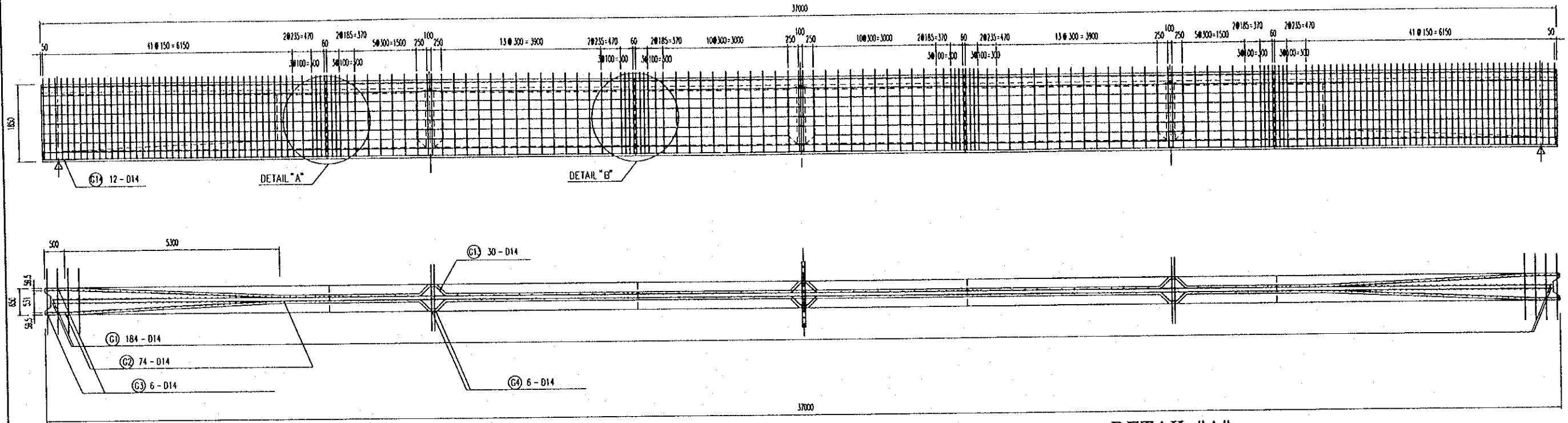
TOTAL WEIGHT OF PC CABLE 3S12.7 = 1447.2 x 2.32 kg/m = 3357.5 (kg)  
 SHEATHING Ø 50/55 : 1447.2 M  
 ANCHORAGE : 288 SET  
 CEMENT GROUT IN SHEATHING : 2.84 M3

### NOTES :

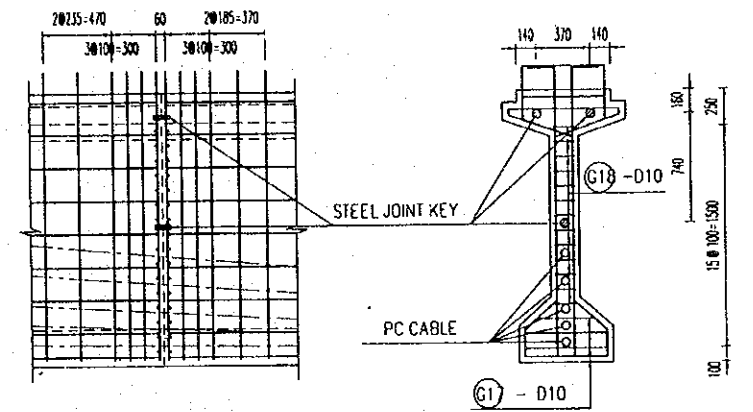
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR1/0030.

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	CAI TAC I BRIDGE SUPERSTRUCTURE TENDONS ARRANGEMENT OF CONNECTION DIAPHRAGMS	P3/BR1/0130
				SIGNATURE	SIGNATURE	SIGNATURE		
				DATE	DATE	DATE		
				20/9/2000	29/9/2000	5/10/2000		

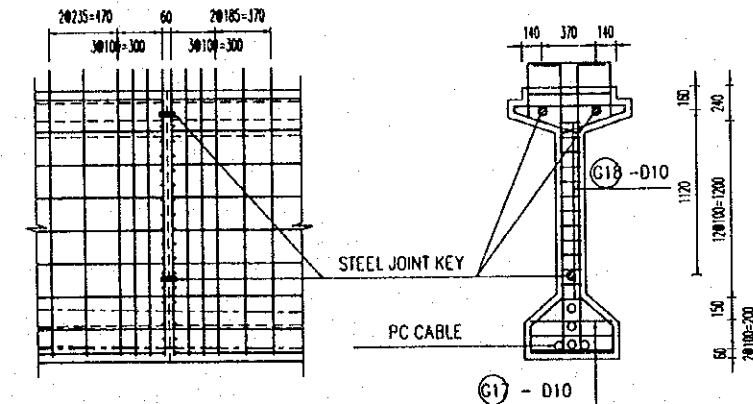
# BAR ARRANGEMENT OF GIRDER FOR CAI TAC 1 BRIDGE (AT INTERIOR SPANS) (Ls = 36.2M)



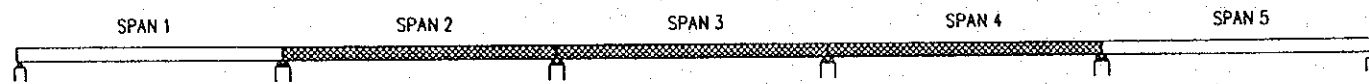
**DETAIL "A"**  
(SCALE 1:50)



**DETAIL "B"**  
(SCALE 1:50)



### REMARK



### NOTES :

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR1/0030.

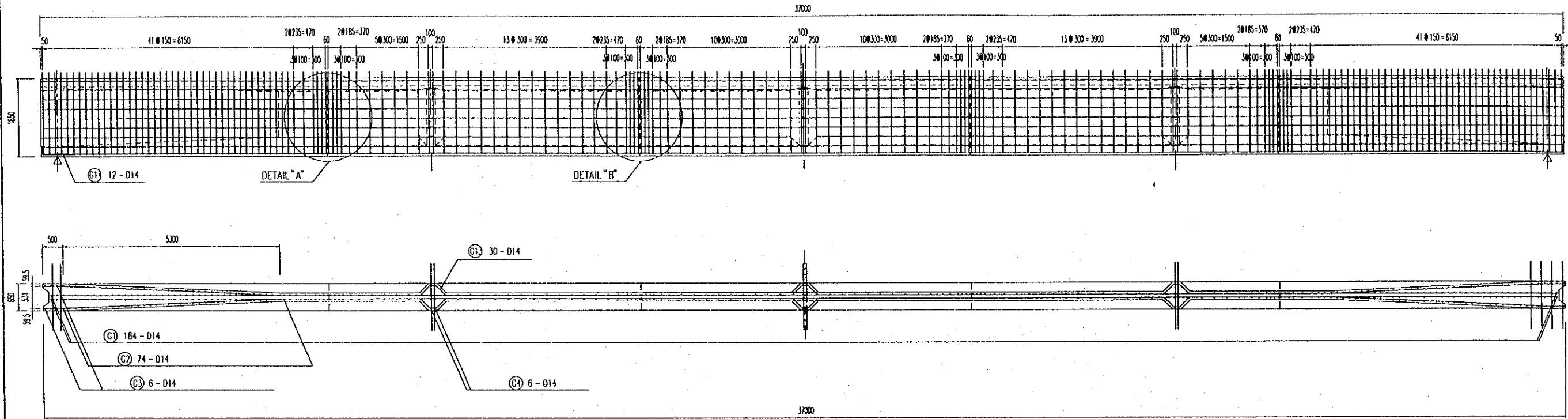
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	<b>JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)</b>	<b>SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT</b>	<b>NIPPON KOEI CO.,LTD.</b>	NAME	T. Kametani	K. Matsumoto	<b>CAI TAC 1 BRIDGE SUPERSTRUCTURE REINFORCEMENT OF "I" GIRDER L = 37M - SHEET 1</b>	<b>P3/BR1/0140</b>
				SIGNATURE	<i>T. Kametani</i>	<i>K. Matsumoto</i>		
				DATE	20/9/2000	29/9/2000		
						<b>K. Enomoto</b> <i>K. Enomoto</i> 5/10/2000		

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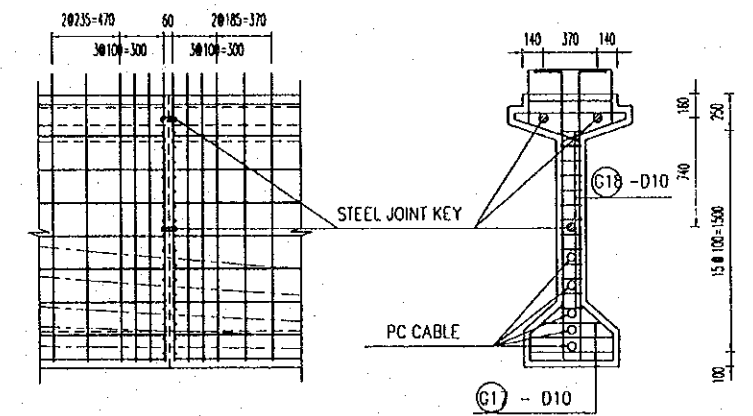


# BAR ARRANGEMENT OF GIRDER FOR CAI TAC 1 BRIDGE (AT EXTERIOR SPANS)

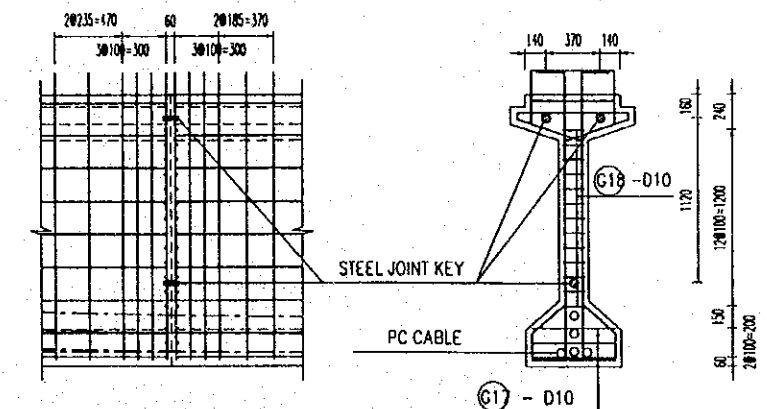
## ( Ls = 36.2M )



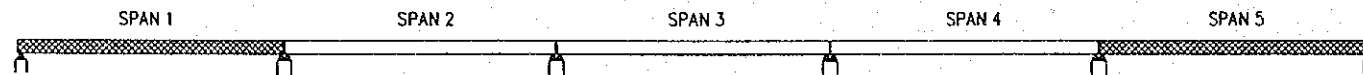
**DETAIL "A"**  
(SCALE 1 : 50)



**DETAIL "B"**  
(SCALE 1 : 50)



### REMARK

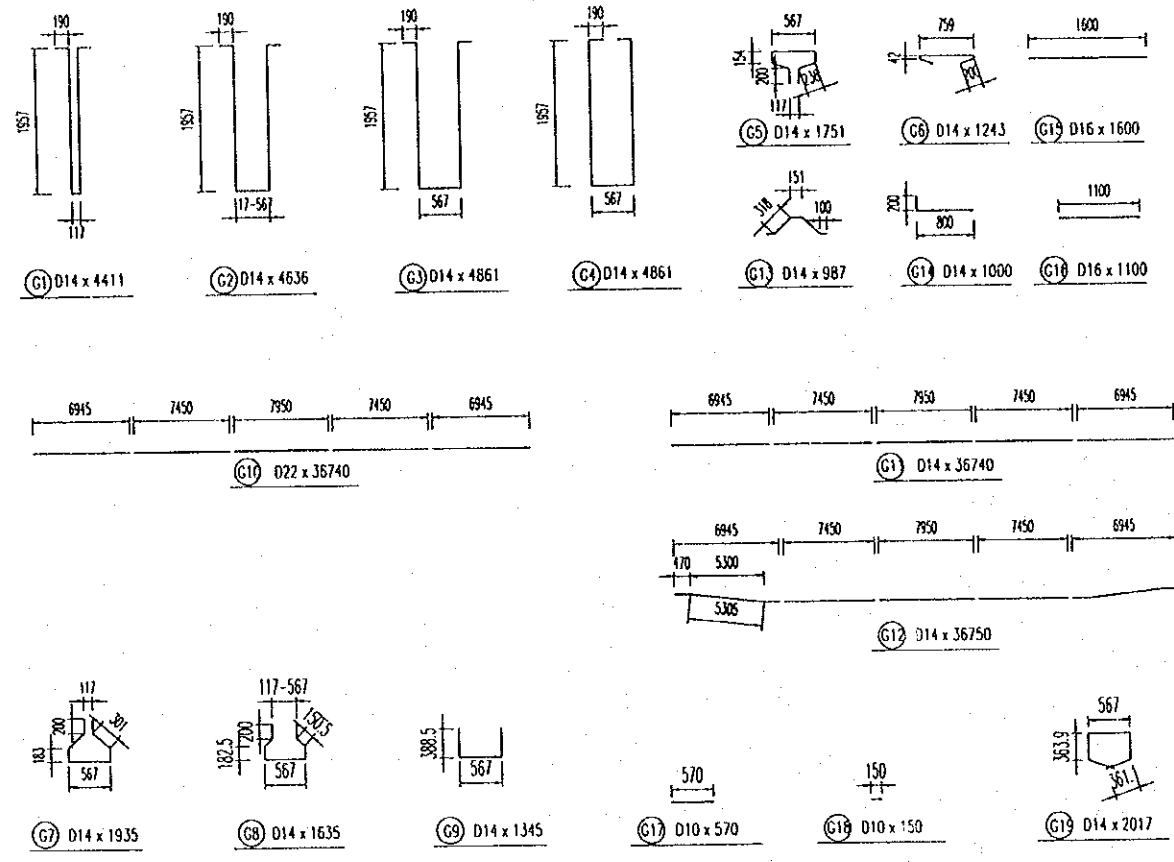


### NOTES :

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/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	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	CAI TAC 1 BRIDGE SUPERSTRUCTURE REINFORCEMENT OF "I" GIRDER L = 37M - SHEET 2	P3/BR1/0150
				SIGNATURE <i>T. Kametani</i>	SIGNATURE <i>K. Matsumoto</i>	SIGNATURE <i>K. Enomoto</i>		
				DATE 20/9/2000	DATE 29/9/2000	DATE 5/10/2000		

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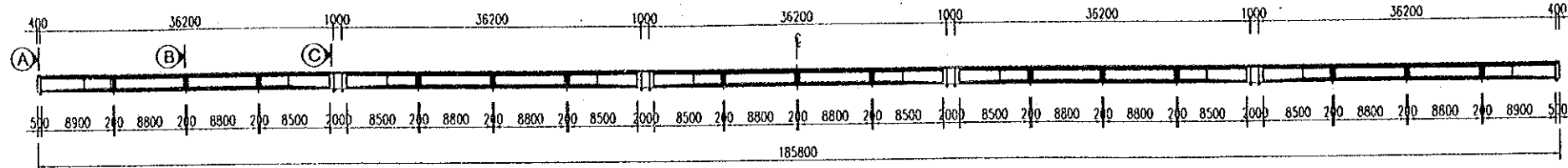
BAR LIST (FOR 1 GIRDER)								
REINF No	DIA (mm)	LENGTH (mm)	NUMBER		UNIT WEIGHT (kg/m)	WEIGHT (kg)		REMARKS
			SPAN 1, 5	SPAN 2, 3, 4		SPAN 1, 5	SPAN 2, 3, 4	
G1	14	4411	184	184	1.208	980.4	980.4	
G2	14	4636	74	74	1.208	414.4	414.4	AVERAGE
G3	14	4861	6	6	1.208	35.2	35.2	
G4	14	4861	6	6	1.208	35.2	35.2	
G5	14	1751	196	196	1.208	414.6	414.6	
G6	14	1243	196	196	1.208	294.3	294.3	
G7	14	1935	122	122	1.208	285.2	285.2	
G8	14	1635	74	74	1.208	146.2	146.2	AVERAGE
G9	14	1345	6	6	1.208	9.7	9.7	
G10	22	36740	6	6	2.984	657.8	657.8	
G11	14	36740	22	22	1.208	976.4	976.4	
G12	14	36750	12	12	1.208	532.7	532.7	
G13	14	987	30	30	1.208	35.8	35.8	
G14	14	1000	12	12	1.208	14.5	14.5	
G15	16	1600	78	72	1.578	196.9	181.8	INTERIOR GIRDER
G16	16	1100	78	72	1.578	135.4	125.0	EXTERIOR GIRDER
G17	10	570	24	24	0.617	8.4	8.4	
G18	10	150	104	104	0.617	9.6	9.6	
G19	14	2017	184	184	1.208	329.6	329.6	
			SPAN 1, 5		SPAN 2, 3, 4			
TOTAL			5377.0	(5315.5)	TOTAL	5361.9	(5305.1)	
D10			18.0	(18.0)	D10			18.0 (18.0)
D14			4504.3	(4504.3)	D14			4504.3 (4504.3)
D16			196.9	(135.4)	D16			181.8 (125.0)
D22			657.8	(657.8)	D22			657.8 (657.8)
STEEL JOINT KEY : 12 SET								

**NOTES :**

- FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR1/0030.
- THE VALUE OF INSIDE ( ) ARE FOR EXTERIOR GIRDER.

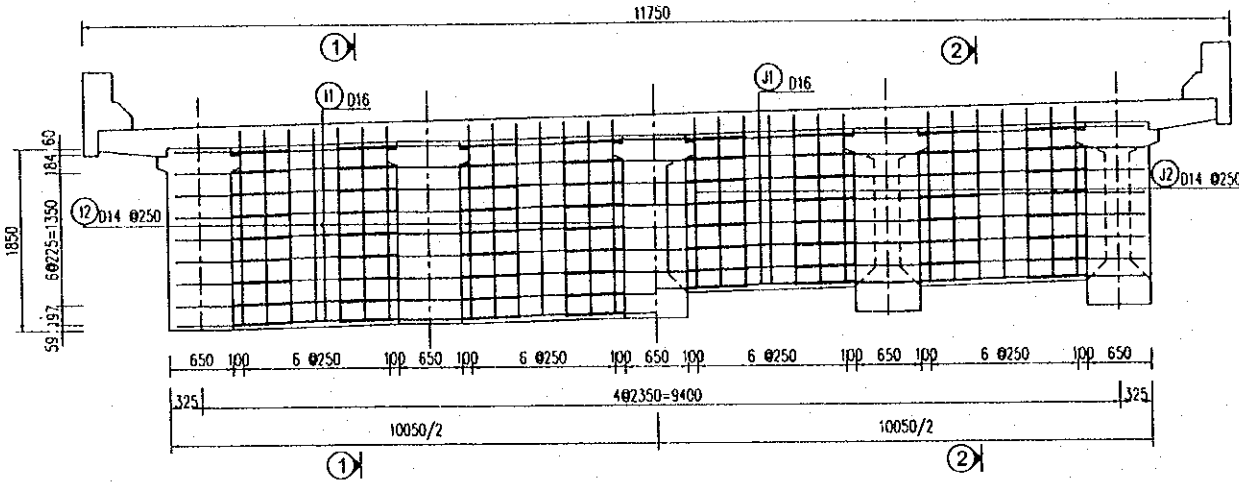
PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY <b>JICA</b> JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM <b>(NK)</b> NIPPON KOEI CO.,LTD.	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE CAI TAC 1 BRIDGE SUPERSTRUCTURE REINFORCEMENT OF 1" GIRDER L=37M - SHEET 3	DWG NO. P3/BR1/0160	
				NAME	T. Kametani	K. Matsumoto			K. Enomoto
				SIGNATURE	<i>T. Kametani</i>	<i>K. Matsumoto</i>			<i>K. Enomoto</i>
				DATE	20/9/2000	29/9/2000	5/10/2000		

PROFILE X-X



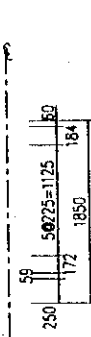
HALF SECTION A-A

SCALE 1:75



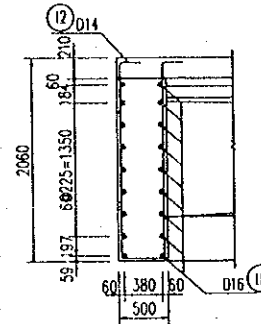
HALF SECTION B-B

SCALE 1:75



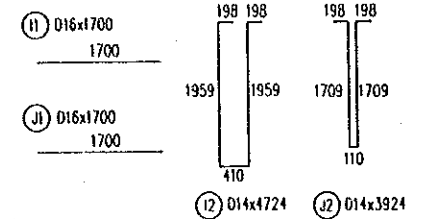
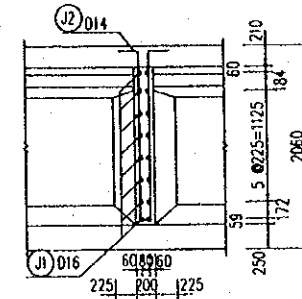
SECTION 1-1

SCALE 1:75



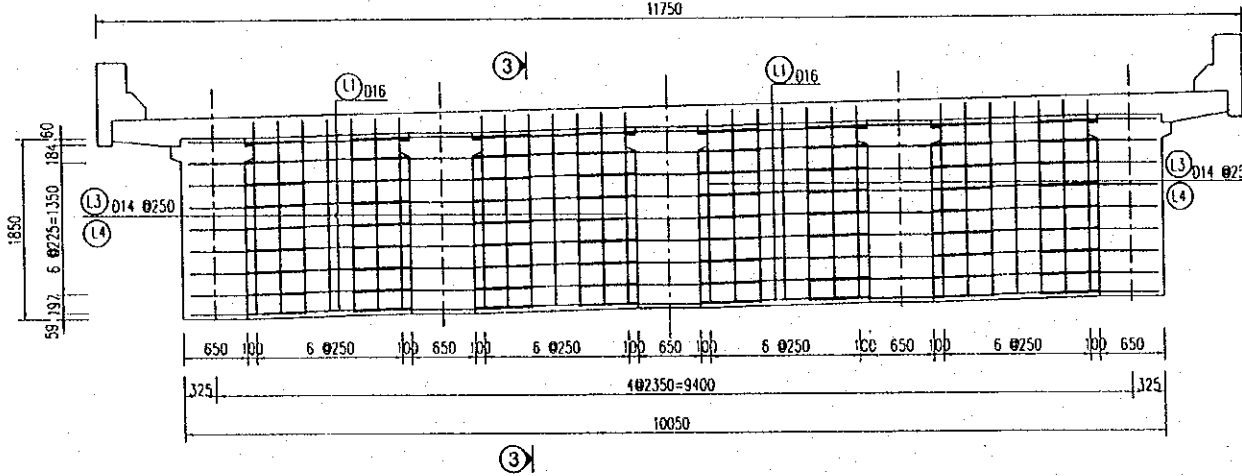
SECTION 2-2

SCALE 1:75



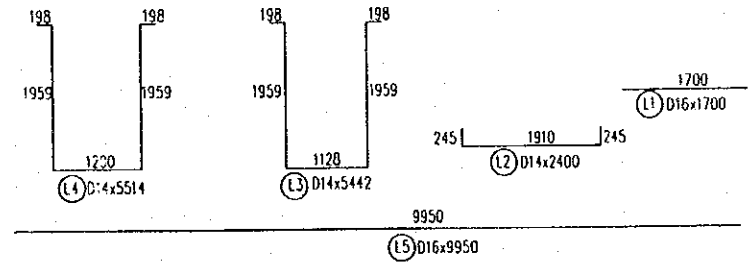
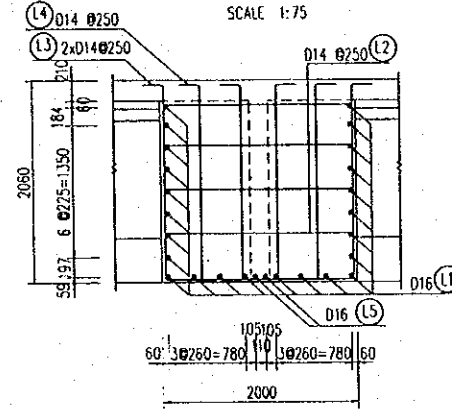
SECTION C-C

SCALE 1:75



SECTION 3-3

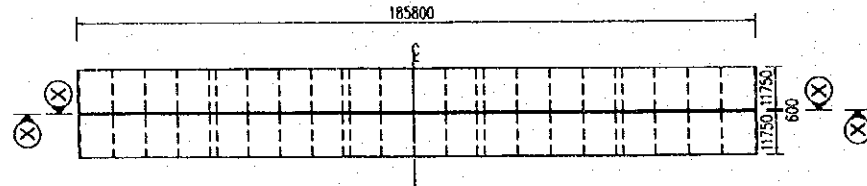
SCALE 1:75



LIST OF REINFORCEMENT

REIN.No	DIAMETER (mm)	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT (kg)
II	16	1700	288	1.578	772.6
I2	14	4724	112	1.208	639.1
J1	16	1700	1920	1.578	5150.6
J2	14	3924	840	1.208	3981.8
L1	16	1700	768	1.578	2060.2
L2	14	2400	896	1.208	2597.7
L3	14	5442	448	1.208	2945.1
L4	14	5514	224	1.208	1492.0
L5	16	9950	16	1.578	251.2
CONCRETE				TOTAL	19890.3
286.7 M3				D16	8234.6
				D14	11655.7

KEY PLAN



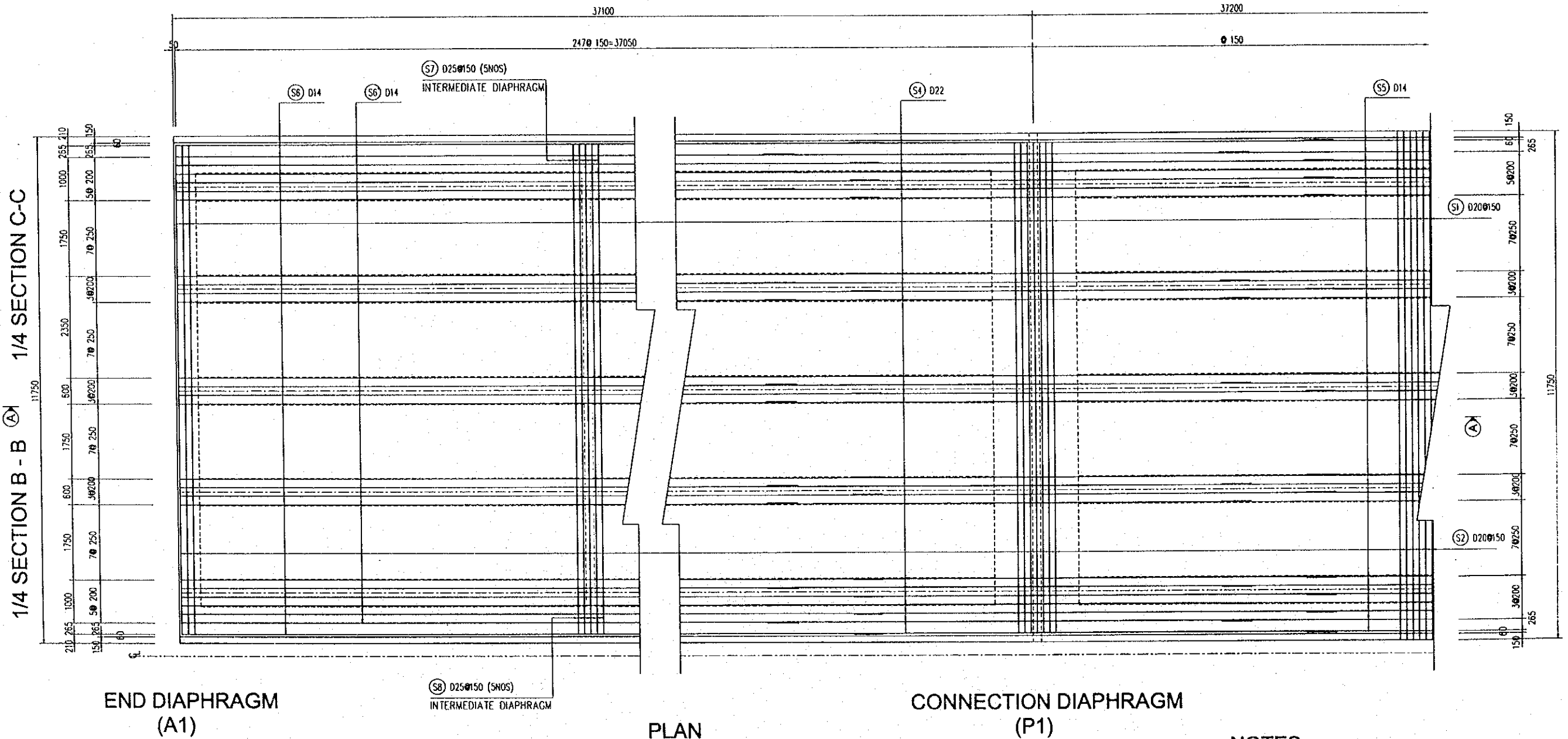
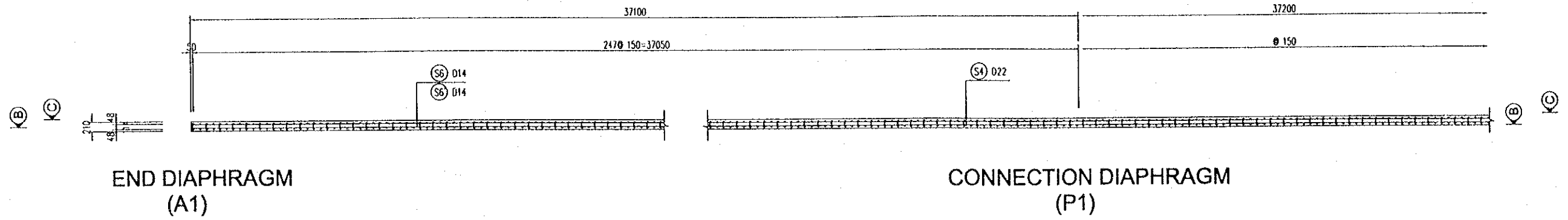
NOTES:

FOR STANDARD STRUCTURAL SEE DRAWING NO. P3/BR1/0030

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 NIPON KOEI CO.,LTD.	PREPARED BY NAME: T. Kametani SIGNATURE: [Signature] DATE: 20/9/2000	CHECKED BY NAME: K. Matsumoto SIGNATURE: [Signature] DATE: 29/9/2000	APPROVED BY NAME: K. Enomoto SIGNATURE: [Signature] DATE: 5/10/2000	DRAWING TITLE CAI TAC I BRIDGE SUPERSTRUCTURE REINFORCEMENT OF DIAPHRAGMS	DWG NO. P3/BR1/0170
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SECTION A - A

SCALE : 1:100



PLAN  
SCALE 1:100

NOTES :

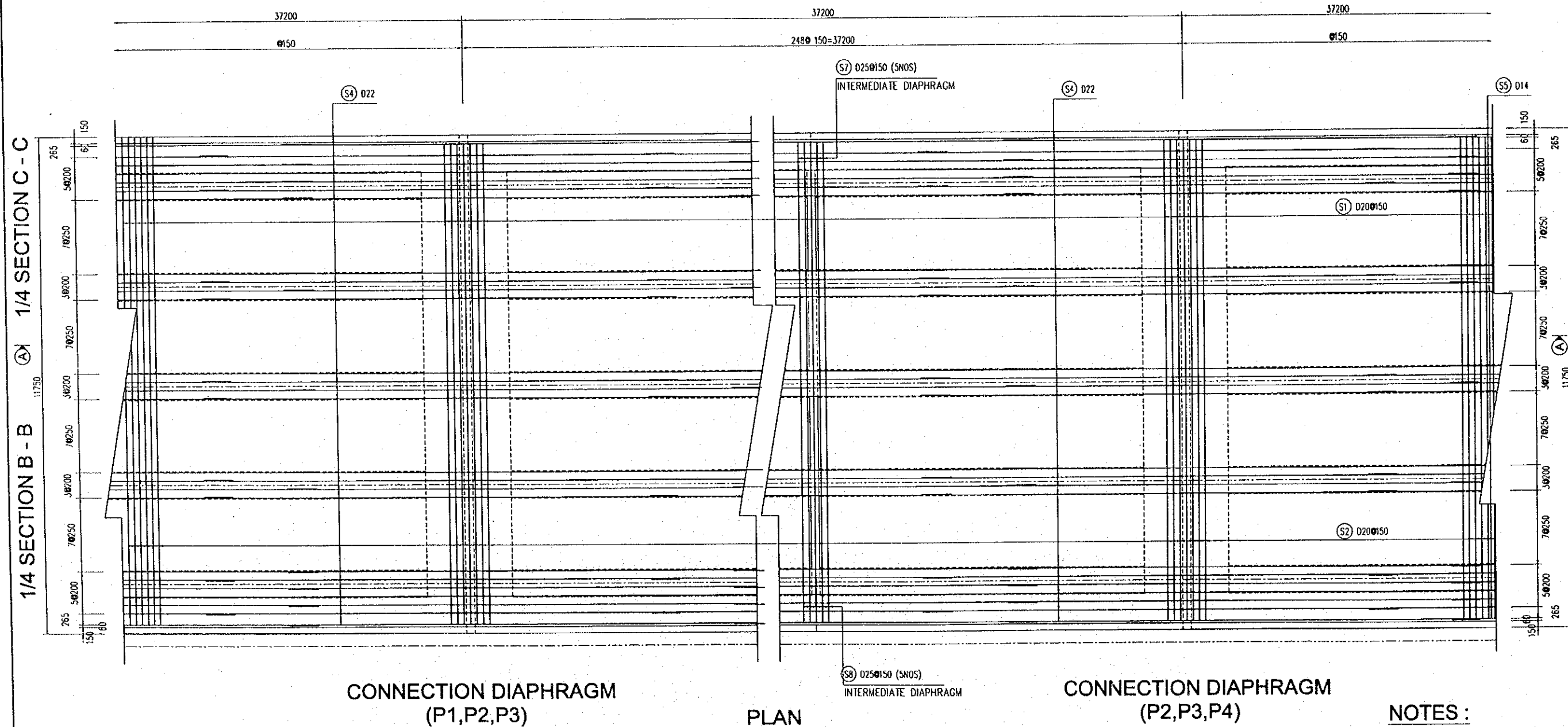
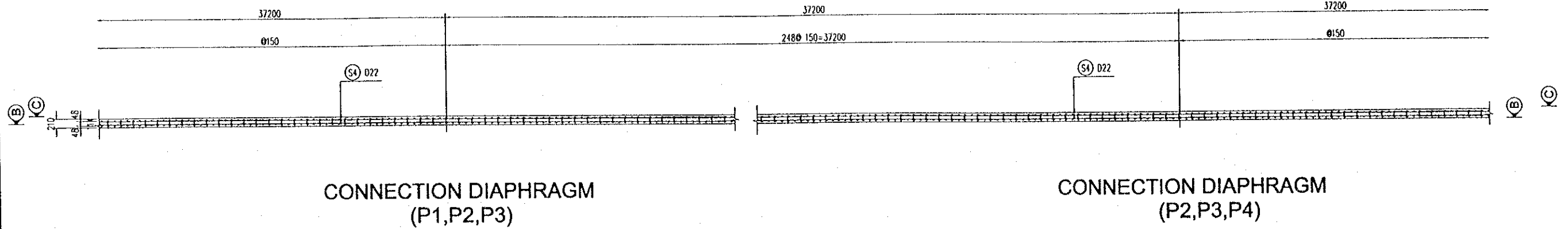
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO .P3/BR1/0030

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	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	CAI TAC I BRIDGE SUPERSTRUCTURE DECK SLAB REINFORCEMENT - SHEET I	P3/BR1/0180
				NAME SIGNATURE DATE	NAME SIGNATURE DATE	NAME SIGNATURE DATE		
				T. Kametani 20/9/2000	K. Matsumoto 29/9/2000	K. Enomoto 5/10/2000		

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SECTION A - A

SCALE : 1:100



PLAN

SCALE 1:100

NOTES :

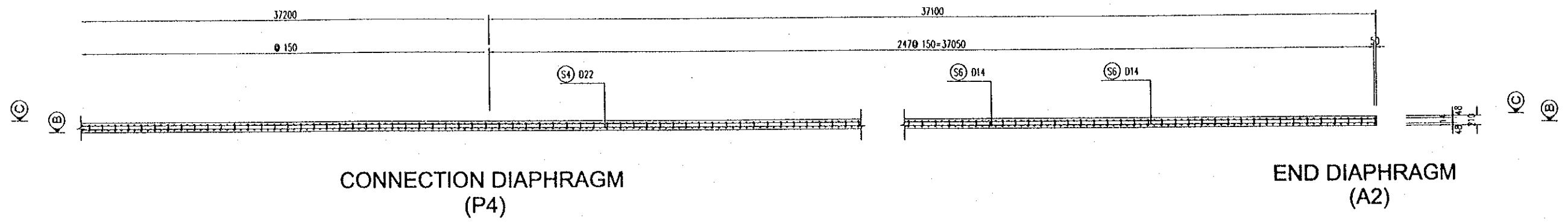
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR1/0030

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 KOBİ 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	CAI TAC 1 BRIDGE SUPERSTRUCTURE DECK SLAB REINFORCEMENT - SHEET 2	P3/BR1/0190

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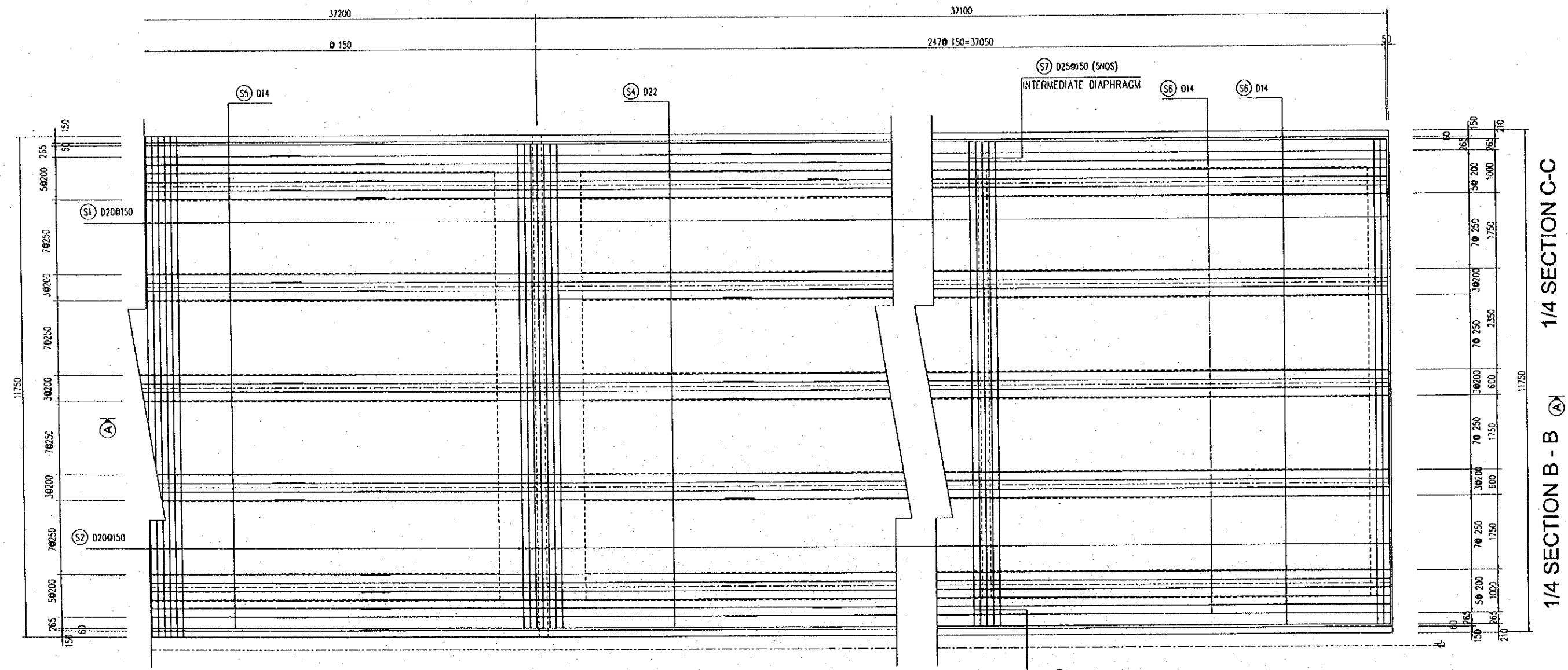
SECTION A - A

SCALE : 1:100



CONNECTION DIAPHRAGM (P4)

END DIAPHRAGM (A2)



CONNECTION DIAPHRAGM (P4)

INTERMEDIATE DIAPHRAGM

END DIAPHRAGM (A2)

PLAN SCALE 1:100

1/4 SECTION B - B (A) 1/4 SECTION C-C

NOTES :

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO .P3/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	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	CAI TAC 1 BRIDGE SUPERSTRUCTURE DECK SLAB REINFORCEMENT - SHEET 3	P3/BR1/0200
				SIGNATURE				
				DATE 20/9/2000	29/9/2000	5/10/2000		

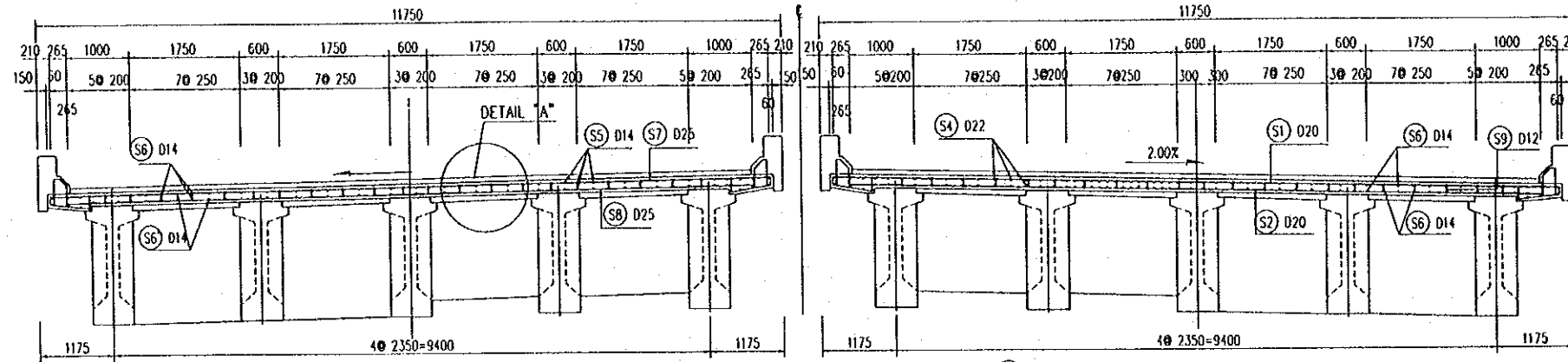
1/4 SECTION  
AT END DIAPHRAGM

1/4 SECTION AT  
INTERMEDIATE DIAPHRAGM

1/4 SECTION AT  
CONNECTION DIAPHRAGM

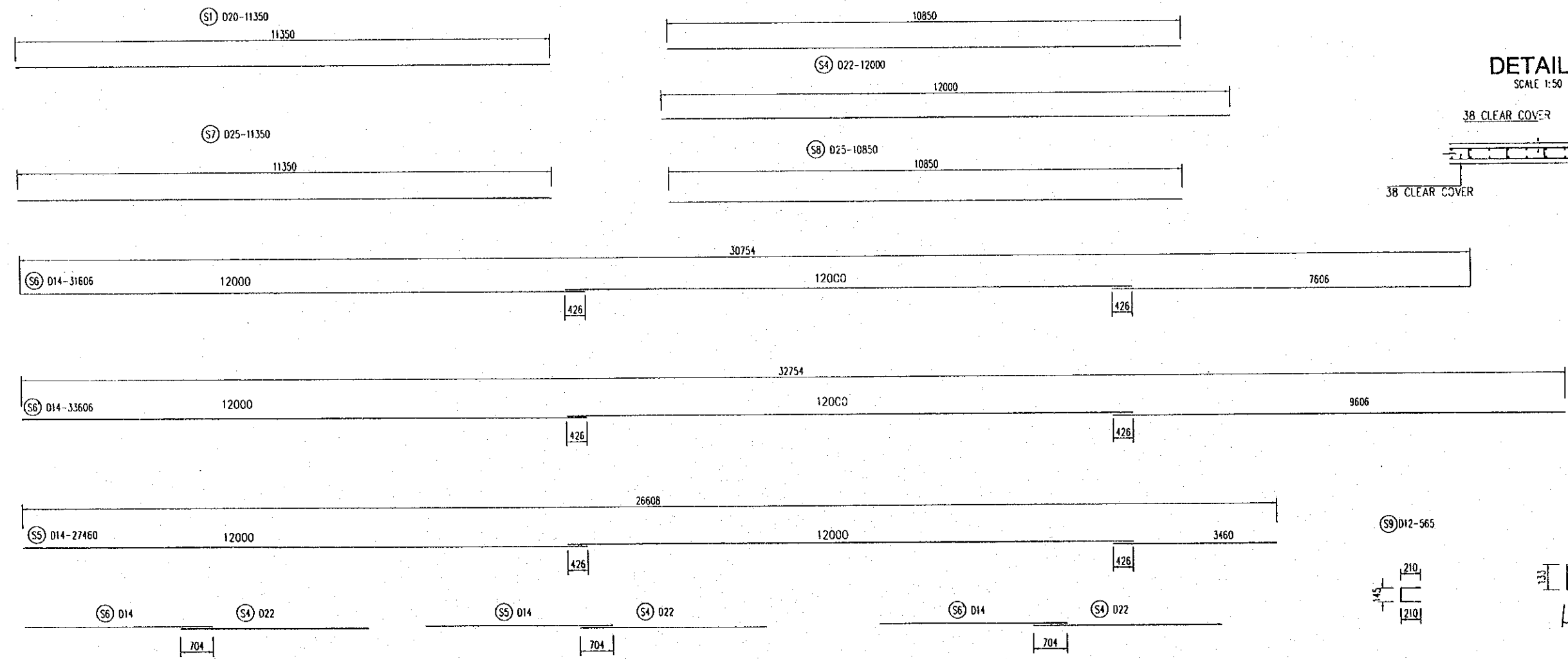
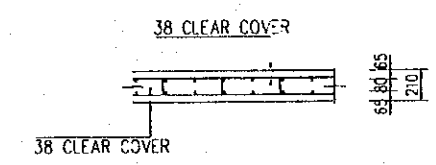
1/4 SECTION  
AT END DIAPHRAGM

LIST OF REINFORCEMENT



TYPE	DIAMETER (mm)	LENGTH (mm)	NUMBER	UNITWEIGHT (kg/m)	WEIGHT (kg)
S1	20	11350	2328	2.466	65158.6
S2	20	10850	2328	2.466	62288.2
S3	14	963	4956	1.208	5765.3
S4	22	12000	800	2.984	28646.4
S5	14	27460	600	1.208	19903.0
S6	14	31606	200	1.208	7636.0
S6'	14	33606	200	1.208	8119.2
S7	25	11350	150	3.853	6559.7
S8	25	10850	150	3.853	6270.8
S9	12	565	30975	0.888	15540.8
TOTAL		225888.0		(KG)	
D25		12830.5		(KG)	
D22		28646.4		(KG)	
D20		127446.8		(KG)	
D14		41423.5		(KG)	
D12		15540.8		(KG)	
				CONCRETE :	914.5(M3)

DETAIL "A"  
SCALE 1:50



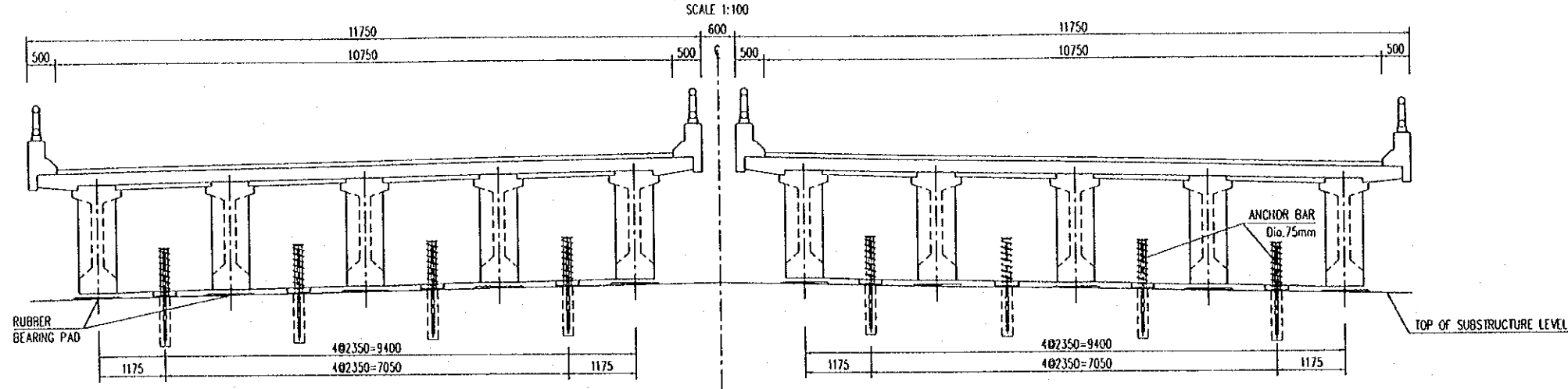
NOTES :

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR1/0030

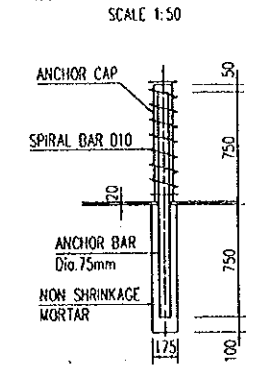
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NK NIPPON KOEI CO.,LTD.	T. Kametani	K. Matsumoto	K. Enomoto	CAITAC I BRIDGE SUPERSTRUCTURE DECK SLAB REINFORCEMENT - SHEET 4	P3/BR1/0210
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

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### CROSS SECTION



### ANCHOR BAR



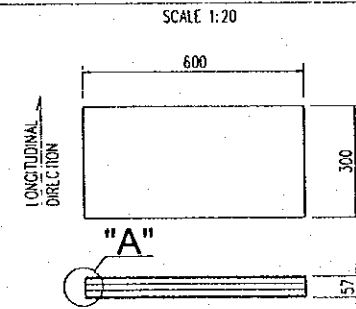
### BEARING PERFORMANCE REQUIREMENTS

LOCATION	SERVICEABILITY	
	VERTICAL LOAD (kN)	
	MAXIMUM	MINIMUM
MOVABLE BEARINGS	1 180	535

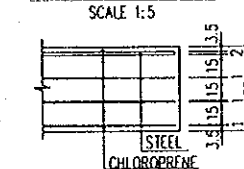
### QUANTITY TABLE ( FOR ENTIRE BRIDGE )

ITEMS	UNIT	SERVICEABILITY
BEARINGS 600x300x57(mm)	SET	100
ANCHOR BAR Dia.75mm	SET	80

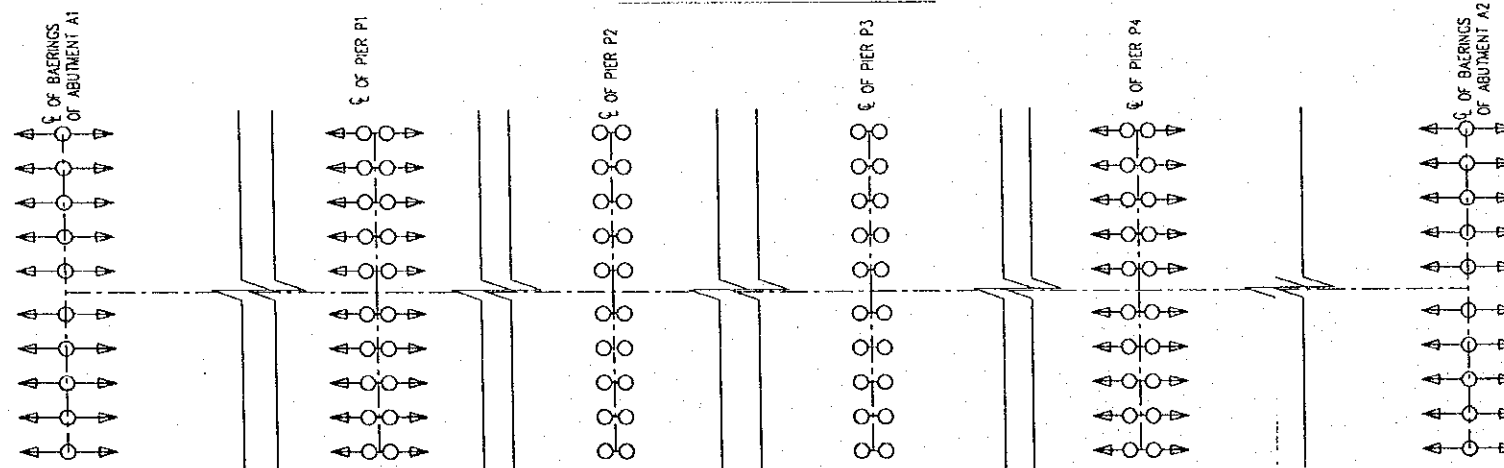
### ELASTOMERIC BEARING



### DETAIL "A"



### BEARING LAYOUT

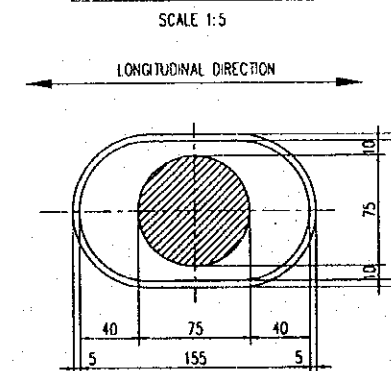


SYMBOLS:

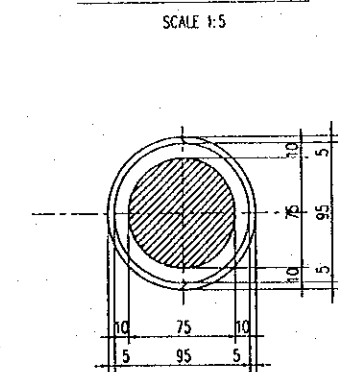
◄ ○ ► DENOTES GUIDE SLIDING BEARING (IN THE DIRECTION GIVEN BY THE ARROWS)

○ DENOTES GUIDE SLIDING FIXED BEARING

### ANCHOR CAP



### ANCHOR BAR



### NOTES

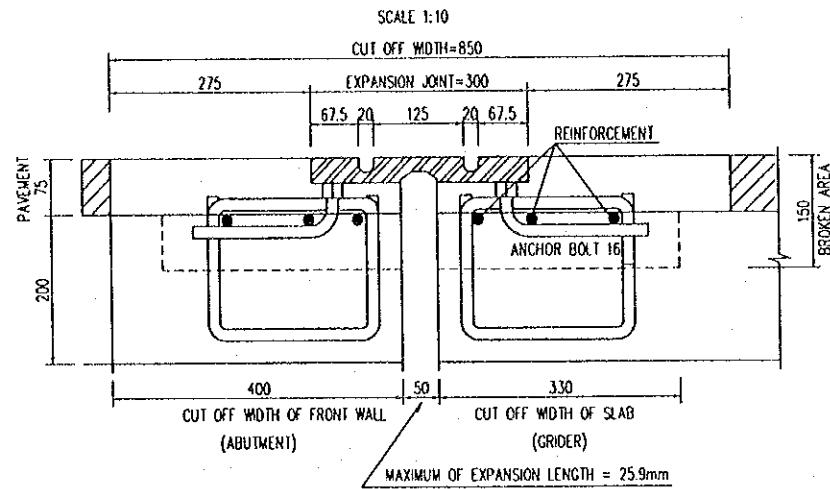
1. FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P3/BR1/0030.

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	CAI TAC 1 BRIDGE SUPERSTRUCTURE DETAILS OF BEARINGS	P3/BR1/0220
				SIGNATURE	SIGNATURE	SIGNATURE		
				DATE	DATE	DATE		
				20/9/2000	29/9/2000	5/10/2000		

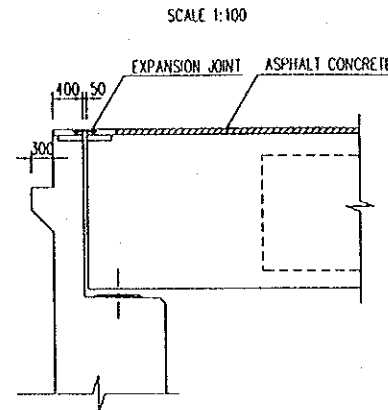


# DETAILS OF EXPANSION JOINTS AT ABUTMENT A1&A2

## FOR ABUTMENT



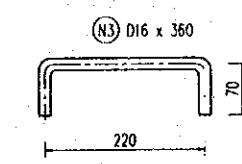
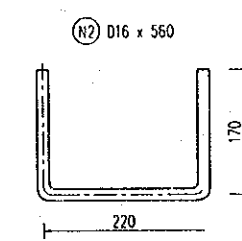
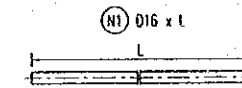
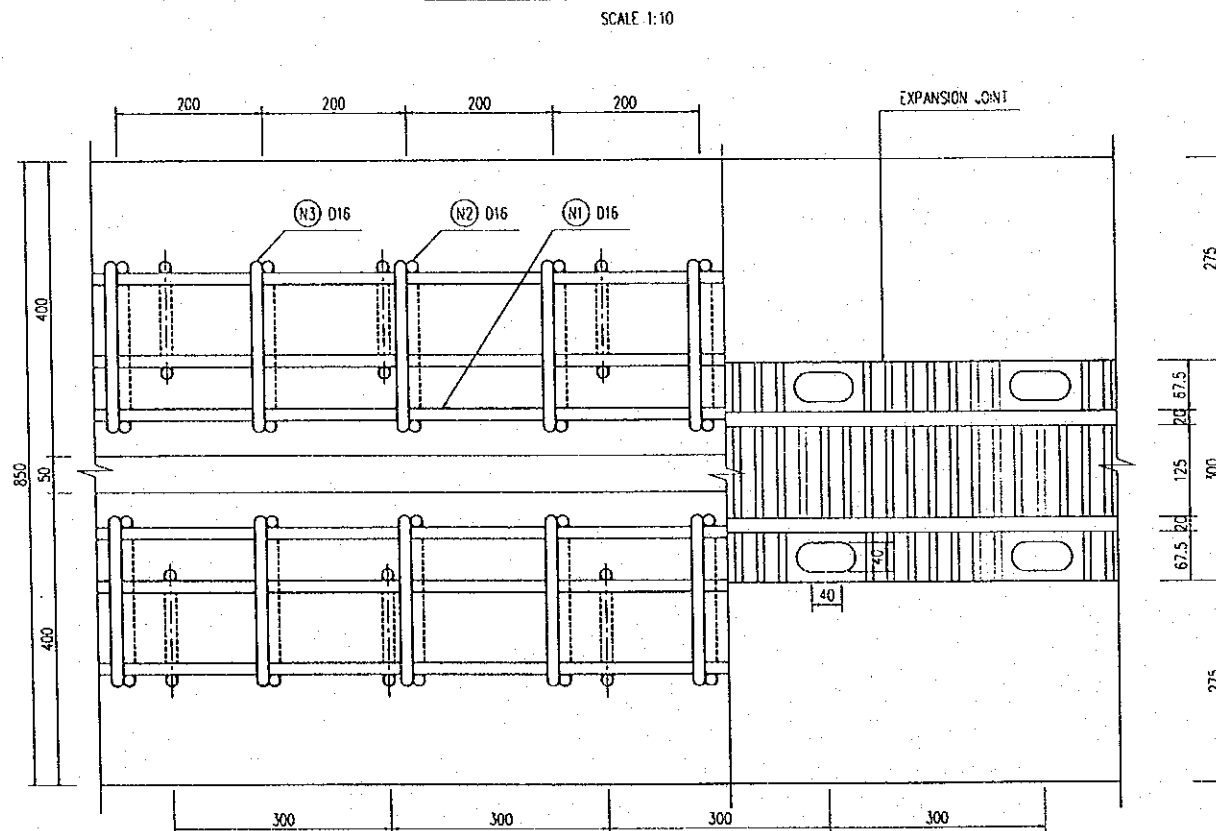
## DETAIL AT ABUTMENT



## QUANTITY (per m)

	KIND OR SIZE	QUANTITY	REMARKS
EXPANSION JOINT	NEOPRENE RUBBER	1 M	JS-K-6301
ANCHOR BOLT	D16 L=272 mm	1/30 CM	Ø300
NUT	NEOPRENE RUBBER		
WASHER	NEOPRENE RUBBER		
REINFORCEMENT	(N1) 3 - D16	4.72 kg	L=11.25m, N=3
	(N2) 5 - D16	4.42 kg	Ø200
	(N3) 5 - D16	2.84 kg	Ø200
CUT OFF	PAVEMENT	0.057 m <sup>3</sup>	
	SLAB	0.050 m <sup>3</sup>	
CONCRETE	B - 1	0.095 m <sup>3</sup>	CAST IN PLACE

## PLAN OF EXPANSION JOINT



## NOTES

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P3/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	CAI TAC 1 BRIDGE SUPERSTRUCTURE DETAILS OF EXPANSION JOINTS	P3/BR1/0230
				SIGNATURE	SIGNATURE	SIGNATURE		
				DATE	DATE	DATE		



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## QUANTITY OF SUPERSTRUCTURE

ITEM		WORK ITEM	UNIT	QUANTITY
CONCRETE	CLASS B	GIRDER	M3	1,461.28
		PANEL	M3	201.28
	CLASS D	DECK SLAB	M3	914.45
		CROSS BEAM	M3	286.70
		TOTAL	M3	1,402.43
		TOTAL	M3	2,863.71
REINFORCEMENT		GIDER	TON	267.22
		CROSS BEAM	TON	19.89
		DECK SLAB	TON	225.89
		PANEL	TON	24.15
		TOTAL	TON	537.16
PC CABLE	12S12.7(B)	LONGITUDINAL TENDONS	TON	85.36
	3S12.7	TRANSVERSE TENDONS	TON	3.36
ANCHOR	12S12.7(B)		SET	500
	3S12.7		SET	288
STEEL SHEAR KEY			SET	600
SHEATHING	φ 80/85		M	9,188.80
	φ 50/55		M	1,447.20
CEMENT GROUT IN SHEATHING		φ 80/85	M3	46.16
		φ 50/55	M3	2.84
		TOTAL	M3	49.00
EXPANSION JOINT	50MM		M	43
BEARING 600X300X57			SET	100
ANCHORAGE BAR			SET	80
PAVEMENT	WATER PROOFING T = 5MM		M2	3,977.50
	ASPHALT CONCRETE T = 70MM		M2	3,977.50

### NOTES

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P3/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	 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	CAI TAC 1 BRIDGE SUPERSTRUCTURE QUANTITY TABLE OF SUPERSTRUCTURE	P3/BR1/0240