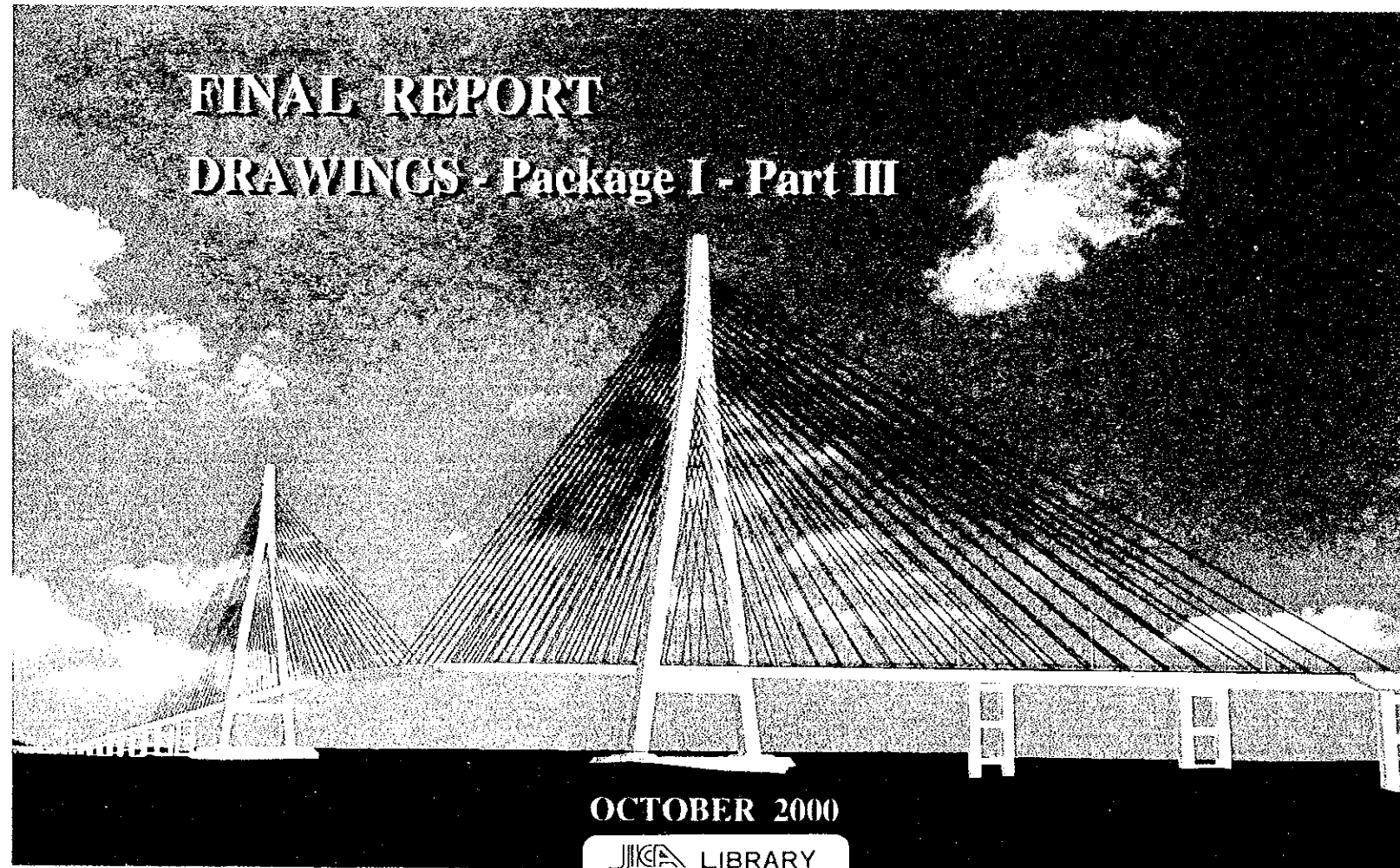


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
MINISTRY OF TRANSPORT
SOCIALIST REPUBLIC OF VIET NAM

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



FINAL REPORT
DRAWINGS - Package I - Part III

OCTOBER 2000

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JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

MINISTRY OF TRANSPORT
SOCIALIST REPUBLIC OF VIET NAM

**THE DETAILED DESIGN
ON
THE CAN THO BRIDGE CONSTRUCTION
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FINAL REPORT

DRAWINGS - Package I - Part III

OCTOBER 2000

NIPPON KOEI CO., LTD.



1161222 {3}

PACKAGE I (PART - 3)

P1/BR3 TRA ON BRIDGE

P1/BR4 INTERCHANGE WITH NH.54 - OVERBRIDGE

DRAWING LIST (1/2)

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
P1/BR3	TRA ON BRIDGE	P1/BR3/0460	SEGMENT REINFORCEMENT - SHEET 1
	GENERAL	P1/BR3/0470	SEGMENT REINFORCEMENT - SHEET 2
P1/BR3/0010	DRAWING LIST	P1/BR3/0480	SEGMENT REINFORCEMENT - SHEET 3
P1/BR3/0020	ABBREVIATIONS AND SYMBOLS	P1/BR3/0490	SEGMENT REINFORCEMENT - SHEET 4
P1/BR3/0030	STRUCTURAL NOTES	P1/BR3/0500	SEGMENT REINFORCEMENT - SHEET 5
P1/BR3/0040	LOCATION MAP	P1/BR3/0510	SEGMENT REINFORCEMENT - SHEET 6
P1/BR3/0050	COORDINATES OF BRIDGE	P1/BR3/0520	SEGMENT REINFORCEMENT - SHEET 7
P1/BR3/0060	GENERAL VIEW - SHEET 1	P1/BR3/0530	SEGMENT REINFORCEMENT - SHEET 8
P1/BR3/0070	GENERAL VIEW - SHEET 2	P1/BR3/0540	SEGMENT REINFORCEMENT - SHEET 9
P1/BR3/0080	GENERAL VIEW - SHEET 3	P1/BR3/0550	SEGMENT REINFORCEMENT - SHEET 10
P1/BR3/0090	QUANTITY TABLE OF BRIDGE	P1/BR3/0560	ANCHOR & DEVIATOR REINFORCEMENT - SHEET 1
	SUPERSTRUCTURE - APPROACH BRIDGE	P1/BR3/0570	ANCHOR & DEVIATOR REINFORCEMENT - SHEET 2
P1/BR3/0100	GIRDER LAYOUT SHEET - 1	P1/BR3/0580	ANCHOR & DEVIATOR REINFORCEMENT - SHEET 3
P1/BR3/0110	GIRDER LAYOUT SHEET - 2	P1/BR3/0590	ANCHOR & DEVIATOR REINFORCEMENT - SHEET 4
P1/BR3/0120	GENERAL VIEW OF GIRDER SHEET 1	P1/BR3/0600	ANCHOR & DEVIATOR REINFORCEMENT - SHEET 5
P1/BR3/0130	GENERAL VIEW OF GIRDER SHEET 2	P1/BR3/0610	ANCHOR & DEVIATOR REINFORCEMENT - SHEET 6
P1/BR3/0140	TENDONS ARRANGEMENT OF GIRDER SHEET 1	P1/BR3/0620	ANCHOR & DEVIATOR REINFORCEMENT - SHEET 7
P1/BR3/0150	TENDONS ARRANGEMENT OF GIRDER SHEET 2	P1/BR3/0630	DETAILS OF EXPANSION JOINT
P1/BR3/0160	TENDONS ARRANGEMENT OF GIRDER SHEET 3	P1/BR3/0640	DETAILS OF BEARINGS - SHEET 1
P1/BR3/0170	TENDONS ARRANGEMENT OF GIRDER SHEET 4	P1/BR3/0650	DETAILS OF BEARINGS - SHEET 2
P1/BR3/0180	TENDONS ARRANGEMENT OF CONNECTION DIAPHRAGM	P1/BR3/0660	MANHOLE COVER
P1/BR3/0190	REINFORCEMENT OF GIRDER SHEET 1	P1/BR3/0670	QUANTITY TABLE OF SUPERSTRUCTURE - MAIN BRIDGE
P1/BR3/0200	REINFORCEMENT OF GIRDER SHEET 2		ABUTMENTS
P1/BR3/0210	REINFORCEMENT OF GIRDER SHEET 3	P1/BR3/0680	ABUTMENT A1 & A2 - GENERAL VIEW
P1/BR3/0220	REINFORCEMENT OF DIAPHRAGM	P1/BR3/0690	ABUTMENT A1 & A2 - BORED CAST IN SITU PILE DETAILS - L=79M
P1/BR3/0230	DECK SLAB REINFORCEMENT - SHEET 1	P1/BR3/0700	ABUTMENT A1 REINFORCEMENT - SHEET 1
P1/BR3/0240	DECK SLAB REINFORCEMENT - SHEET 2	P1/BR3/0710	ABUTMENT A1 REINFORCEMENT - SHEET 2
P1/BR3/0250	DECK SLAB REINFORCEMENT - SHEET 3	P1/BR3/0720	ABUTMENT A1 REINFORCEMENT - SHEET 3
P1/BR3/0260	DECK SLAB REINFORCEMENT - SHEET 4	P1/BR3/0730	ABUTMENT A2 REINFORCEMENT - SHEET 1
P1/BR3/0270	DECK SLAB REINFORCEMENT - SHEET 5	P1/BR3/0740	ABUTMENT A2 REINFORCEMENT - SHEET 2
P1/BR3/0280	DETAILS OF EXPANSION JOINT	P1/BR3/0750	ABUTMENT A2 REINFORCEMENT - SHEET 3
P1/BR3/0290	DETAILS OF BEARINGS	P1/BR3/0760	ABUTMENT A1 & A2 - EARTHWORKS SLOPE PROTECTION
P1/BR3/0300	QUANTITY TABLE OF SUPERSTRUCTURE - APPROACH BRIDGE	P1/BR3/0770	DETAILS OF APPROACH SLAB
	SUPERSTRUCTURE - MAIN BRIDGE	P1/BR3/0780	QUANTITY TABLE OF ABUTMENTS
P1/BR3/0310	GENERAL ARRANGEMENT OF SEGMENTS - SHEET 1		PIERS
P1/BR3/0320	GENERAL ARRANGEMENT OF SEGMENTS - SHEET 2	P1/BR3/0790	PIER1 & PIER6 - GENERAL VIEW
P1/BR3/0330	CONSTRUCTION SEQUENCE - SHEET 1	P1/BR3/0800	PIER2 & PIER5 - GENERAL VIEW
P1/BR3/0340	CONSTRUCTION SEQUENCE - SHEET 2	P1/BR3/0810	PIER3 & PIER4 - GENERAL VIEW
P1/BR3/0350	GENERAL SECTIONS	P1/BR3/0820	PIERS PROTECTION
P1/BR3/0360	ANCHOR & DEVIATOR DETAILS - SHEET 1	P1/BR3/0830	PIER1 & PIER4 - BORED PILE DETAILS - L=77M
P1/BR3/0370	ANCHOR & DEVIATOR DETAILS - SHEET 2	P1/BR3/0840	PIER2 & PIER3 - BORED PILE DETAILS - L=71M
P1/BR3/0380	ANCHOR & DEVIATOR DETAILS - SHEET 3	P1/BR3/0850	PIERS P1, P2, P5 & P6 - REINFORCEMENT - SHEET 1
P1/BR3/0390	ANCHOR & DEVIATOR DETAILS - SHEET 4	P1/BR3/0860	PIERS P1, P2, P5 & P6 - REINFORCEMENT - SHEET 2
P1/BR3/0400	ANCHOR & DEVIATOR DETAILS - SHEET 5	P1/BR3/0870	PIERS P1, P2, P5 & P6 - REINFORCEMENT - SHEET 3
P1/BR3/0410	ARRANGEMENT OF TENDONS - SHEET 1	P1/BR3/0880	PIERS P1, P2, P5 & P6 - REINFORCEMENT - SHEET 4
P1/BR3/0420	ARRANGEMENT OF TENDONS - SHEET 2	P1/BR3/0890	PIER3 & PIER4 - REINFORCEMENT - SHEET 1
P1/BR3/0430	ARRANGEMENT OF TENDONS - SHEET 3	P1/BR3/0900	PIER3 & PIER4 - REINFORCEMENT - SHEET 2
P1/BR3/0440	ARRANGEMENT OF TENDONS - SHEET 4	P1/BR3/0910	QUANTITY TABLE OF PIERS
P1/BR3/0450	TRANSVERSE PRESTRESS OF TOP SLAB		

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 - 3) (1/2)	P1/PA3/0010
				SIGNATURE				
				DATE	20/9/2000	29/9/2000		

DRAWING LIST (2/2)

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
	MISCELLANEOUS		
P1/BR3/0920	PARAPET AND RAILING DETAILS	P1/BR4/0370	ABUTMENT A1 & A2 - BORED PILES DETAILS L=71M
P1/BR3/0930	BRIDGE NAME PLAQUE	P1/BR4/0380	ABUTMENT A1 & A2 - REINFORCEMENT - SHEET 1
P1/BR3/0940	DRAINAGE AND LIGHTING POLES LAYOUT	P1/BR4/0390	ABUTMENT A1 & A2 - REINFORCEMENT - SHEET 2
P1/BR3/0950	DRAINAGE DETAILS - SHEET 1	P1/BR4/0400	ABUTMENT A1 & A2 - REINFORCEMENT - SHEET 3
P1/BR3/0960	DRAINAGE DETAILS - SHEET 2	P1/BR4/0410	ABUTMENT A1 & A2 - EARTHWORK SLOPE PROTECTION
P1/BR3/0970	LIGHTING POLES BASE DETAILS	P1/BR4/0420	DETAILS OF APPROACH SLAB
P1/BR3/0980	QUANTITY TABLE OF MISCELLANEOUS WORKS	P1/BR4/0430	QUANTITY TABLE OF ABUTMENTS
			PIERS
P1/BR4	INTERCHANGE 2 FLYOVER BRIDGE	P1/BR4/0440	PIER 1 & PIER 4 - GENERAL VIEW
	GENERAL	P1/BR4/0450	PIER 2 & PIER 3 - GENERAL VIEW
P1/BR4/0010	DRAWING LIST	P1/BR4/0460	PIER 1 & PIER 4 - BORED PILE DETAILS L=69M
P1/BR4/0020	ABBREVIATIONS AND SYMBOLS	P1/BR4/0470	PIER 2 & PIER 3 - BORED PILE DETAILS L=69M
P1/BR4/0030	STRUCTURAL NOTES	P1/BR4/0480	PIER 1 & PIER 4 - REINFORCEMENT - SHEET 1
P1/BR4/0040	LOCATION MAP	P1/BR4/0490	PIER 1 & PIER 4 - REINFORCEMENT - SHEET 2
P1/BR4/0050	COORDINATES OF BRIDGE	P1/BR4/0500	PIER 2 & PIER 3 - REINFORCEMENT - SHEET 1
P1/BR4/0060	GENERAL VIEW -- SHEET 1	P1/BR4/0510	PIER 2 & PIER 3 - REINFORCEMENT - SHEET 2
P1/BR4/0070	GENERAL VIEW -- SHEET 2	P1/BR4/0520	QUANTITY TABLE OF PIERS
P1/BR4/0080	QUANTITY TABLE OF BRIDGE		MISCELLANEOUS
	SUPERSTRUCTURE	P1/BR4/0530	PARAPET AND RAILING DETAILS
P1/BR4/0090	GENERAL VIEW OF HOLLOW SLAB - SHEET 1	P1/BR4/0540	BRIDGE NAME PLAQUE
P1/BR4/0100	GENERAL VIEW OF HOLLOW SLAB - SHEET 2	P1/BR4/0550	DRAINAGE AND LIGHTING POLES LAYOUT
P1/BR4/0110	CONSTRUCTION SEQUENCE	P1/BR4/0560	DRAINAGE DETAILS
P1/BR4/0120	TENDON ARRANGEMENT OF HOLLOW SLAB - SHEET 1	P1/BR4/0570	BASE DETAILS OF LIGHTING POLES
P1/BR4/0130	TENDON ARRANGEMENT OF HOLLOW SLAB - SHEET 2	P1/BR4/0580	QUANTITY TABLE OF MISCELLANEOUS WORKS
P1/BR4/0140	TENDON ARRANGEMENT OF HOLLOW SLAB - SHEET 3		
P1/BR4/0150	TENDON ARRANGEMENT OF HOLLOW SLAB - SHEET 4		
P1/BR4/0160	TENDON ARRANGEMENT OF HOLLOW SLAB - SHEET 5		
P1/BR4/0170	TENDON ARRANGEMENT OF HOLLOW SLAB - SHEET 6		
P1/BR4/0180	TENDON ARRANGEMENT OF HOLLOW SLAB - SHEET 7		
P1/BR4/0190	TENDON ARRANGEMENT OF HOLLOW SLAB - SHEET 8		
P1/BR4/0200	REINFORCEMENT ARRANGEMENT OF HOLLOW SLAB - SHEET 1		
P1/BR4/0210	REINFORCEMENT ARRANGEMENT OF HOLLOW SLAB - SHEET 2		
P1/BR4/0220	REINFORCEMENT ARRANGEMENT OF HOLLOW SLAB - SHEET 3		
P1/BR4/0230	REINFORCEMENT ARRANGEMENT OF HOLLOW SLAB - SHEET 4		
P1/BR4/0240	REINFORCEMENT ARRANGEMENT OF HOLLOW SLAB - SHEET 5		
P1/BR4/0250	REINFORCEMENT ARRANGEMENT OF HOLLOW SLAB - SHEET 6		
P1/BR4/0260	REINFORCEMENT ARRANGEMENT OF HOLLOW SLAB - SHEET 7		
P1/BR4/0270	REINFORCEMENT ARRANGEMENT OF HOLLOW SLAB - SHEET 8		
P1/BR4/0280	REINFORCEMENT ARRANGEMENT OF HOLLOW SLAB - SHEET 9		
P1/BR4/0290	REINFORCEMENT ARRANGEMENT OF HOLLOW SLAB - SHEET 10		
P1/BR4/0300	REINFORCEMENT ARRANGEMENT OF HOLLOW SLAB - SHEET 11		
P1/BR4/0310	REINFORCEMENT ARRANGEMENT OF HOLLOW SLAB - SHEET 12		
P1/BR4/0320	EXPANSION JOINT DETAILS AT ABUTMENT A1 & A2		
P1/BR4/0330	BEARING DETAILS AT ABUTMENT A1 & A2		
P1/BR4/0340	BEARING DETAILS AT PIER P1 & P4		
P1/BR4/0350	QUANTITY TABLE OF SUPERSTRUCTURE		
	ABUTMENTS		
P1/BR4/0360	ABUTMENT A1 & A2 - GENERAL ARRANGEMENT		

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 5/10/2000	GENERAL DRAWING LIST (PART - 3) (2/2)	P1/PA3/0020

P1/BR3 TRA ON BRIDGE

DRAWING LIST OF TRA ON BRIDGE

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
P1/BR3	TRA ON BRIDGE	P1/BR3/0500	SEGMENT REINFORCEMENT - SHEET 5
	GENERAL	P1/BR3/0510	SEGMENT REINFORCEMENT - SHEET 6
P1/BR3/0010	DRAWING LIST	P1/BR3/0520	SEGMENT REINFORCEMENT - SHEET 7
P1/BR3/0020	ABBREVIATIONS AND SYMBOLS	P1/BR3/0530	SEGMENT REINFORCEMENT - SHEET 8
P1/BR3/0030	STRUCTURAL NOTES	P1/BR3/0540	SEGMENT REINFORCEMENT - SHEET 9
P1/BR3/0040	LOCATION MAP	P1/BR3/0550	SEGMENT REINFORCEMENT - SHEET 10
P1/BR3/0050	COORDINATES OF BRIDGE	P1/BR3/0560	ANCHOR & DEVIATOR REINFORCEMENT - SHEET 1
P1/BR3/0060	GENERAL VIEW - SHEET 1	P1/BR3/0570	ANCHOR & DEVIATOR REINFORCEMENT - SHEET 2
P1/BR3/0070	GENERAL VIEW - SHEET 2	P1/BR3/0580	ANCHOR & DEVIATOR REINFORCEMENT - SHEET 3
P1/BR3/0080	GENERAL VIEW - SHEET 3	P1/BR3/0590	ANCHOR & DEVIATOR REINFORCEMENT - SHEET 4
P1/BR3/0090	QUANTITY TABLE OF BRIDGE	P1/BR3/0600	ANCHOR & DEVIATOR REINFORCEMENT - SHEET 5
	SUPERSTRUCTURE - APPROACH BRIDGE	P1/BR3/0610	ANCHOR & DEVIATOR REINFORCEMENT - SHEET 6
P1/BR3/0100	GIRDER LAYOUT SHEET - 1	P1/BR3/0620	ANCHOR & DEVIATOR REINFORCEMENT - SHEET 7
P1/BR3/0110	GIRDER LAYOUT SHEET - 2	P1/BR3/0630	DETAILS OF EXPANSION JOINT
P1/BR3/0120	GENERAL VIEW OF GIRDER SHEET 1	P1/BR3/0640	DETAILS OF BEARINGS - SHEET 1
P1/BR3/0130	GENERAL VIEW OF GIRDER SHEET 2	P1/BR3/0650	DETAILS OF BEARINGS - SHEET 2
P1/BR3/0140	TENDONS ARRANGEMENT OF GIRDER SHEET 1	P1/BR3/0660	MANHOLE COVER
P1/BR3/0150	TENDONS ARRANGEMENT OF GIRDER SHEET 2	P1/BR3/0670	QUANTITY TABLE OF SUPERSTRUCTURE - MAIN BRIDGE
P1/BR3/0160	TENDONS ARRANGEMENT OF GIRDER SHEET 3		ABUTMENTS
P1/BR3/0170	TENDONS ARRANGEMENT OF GIRDER SHEET 4	P1/BR3/0680	ABUTMENT A1 & A2 - GENERAL VIEW
P1/BR3/0180	TENDONS ARRANGEMENT OF CONNECTION DIAPHRAGM	P1/BR3/0690	ABUTMENT A1 & A2 - BORED CAST IN SITU PILE DETAILS - L=79M
P1/BR3/0190	REINFORCEMENT OF GIRDER SHEET 1	P1/BR3/0700	ABUTMENT A1 REINFORCEMENT - SHEET 1
P1/BR3/0200	REINFORCEMENT OF GIRDER SHEET 2	P1/BR3/0710	ABUTMENT A1 REINFORCEMENT - SHEET 2
P1/BR3/0210	REINFORCEMENT OF GIRDER SHEET 3	P1/BR3/0720	ABUTMENT A1 REINFORCEMENT - SHEET 3
P1/BR3/0220	REINFORCEMENT OF DIAPHRAGM	P1/BR3/0730	ABUTMENT A2 REINFORCEMENT - SHEET 1
P1/BR3/0230	DECK SLAB REINFORCEMENT - SHEET 1	P1/BR3/0740	ABUTMENT A2 REINFORCEMENT - SHEET 2
P1/BR3/0240	DECK SLAB REINFORCEMENT - SHEET 2	P1/BR3/0750	ABUTMENT A2 REINFORCEMENT - SHEET 3
P1/BR3/0250	DECK SLAB REINFORCEMENT - SHEET 3	P1/BR3/0760	ABUTMENT A1 & A2 - EARTHWORKS SLOPE PROTECTION
P1/BR3/0260	DECK SLAB REINFORCEMENT - SHEET 4	P1/BR3/0770	DETAILS OF APPROACH SLAB
P1/BR3/0270	DECK SLAB REINFORCEMENT - SHEET 5	P1/BR3/0780	QUANTITY TABLE OF ABUTMENTS
P1/BR3/0280	DETAILS OF EXPANSION JOINT		PIERS
P1/BR3/0290	DETAILS OF BEARINGS	P1/BR3/0790	PIER1 & PIER6 - GENERAL VIEW
P1/BR3/0300	QUANTITY TABLE OF SUPERSTRUCTURE - APPROACH BRIDGE	P1/BR3/0800	PIER2 & PIER5 - GENERAL VIEW
	SUPERSTRUCTURE - MAIN BRIDGE	P1/BR3/0810	PIER3 & PIER4 - GENERAL VIEW
P1/BR3/0310	GENERAL ARRANGEMENT OF SEGMENTS - SHEET 1	P1/BR3/0820	PIERS PROTECTION
P1/BR3/0320	GENERAL ARRANGEMENT OF SEGMENTS - SHEET 2	P1/BR3/0830	PIER1 & PIER4 - BORED PILE DETAILS - L=77M
P1/BR3/0330	CONSTRUCTION SEQUENCE - SHEET 1	P1/BR3/0840	PIER2 & PIER3 - BORED PILE DETAILS - L=71M
P1/BR3/0340	CONSTRUCTION SEQUENCE - SHEET 2	P1/BR3/0850	PIERS P1, P2, P5 & P6 - REINFORCEMENT - SHEET 1
P1/BR3/0350	GENERAL SECTIONS	P1/BR3/0860	PIERS P1, P2, P5 & P6 - REINFORCEMENT - SHEET 2
P1/BR3/0360	ANCHOR & DEVIATOR DETAILS - SHEET 1	P1/BR3/0870	PIERS P1, P2, P5 & P6 - REINFORCEMENT - SHEET 3
P1/BR3/0370	ANCHOR & DEVIATOR DETAILS - SHEET 2	P1/BR3/0880	PIERS P1, P2, P5 & P6 - REINFORCEMENT - SHEET 4
P1/BR3/0380	ANCHOR & DEVIATOR DETAILS - SHEET 3	P1/BR3/0890	PIER3 & PIER4 - REINFORCEMENT - SHEET 1
P1/BR3/0390	ANCHOR & DEVIATOR DETAILS - SHEET 4	P1/BR3/0900	PIER3 & PIER4 - REINFORCEMENT - SHEET 2
P1/BR3/0400	ANCHOR & DEVIATOR DETAILS - SHEET 5	P1/BR3/0910	QUANTITY TABLE OF PIERS
P1/BR3/0410	ARRANGEMENT OF TENDONS - SHEET 1		MISCELLANEOUS
P1/BR3/0420	ARRANGEMENT OF TENDONS - SHEET 2	P1/BR3/0920	PARAPET AND RAILING DETAILS
P1/BR3/0430	ARRANGEMENT OF TENDONS - SHEET 3	P1/BR3/0930	BRIDGE NAME PLAQUE
P1/BR3/0440	ARRANGEMENT OF TENDONS - SHEET 4	P1/BR3/0940	DRAINAGE AND LIGHTING POLES LAYOUT
P1/BR3/0450	TRANSVERSE PRESTRESS OF TOP SLAB	P1/BR3/0950	DRAINAGE DETAILS - SHEET 1
P1/BR3/0460	SEGMENT REINFORCEMENT - SHEET 1	P1/BR3/0960	DRAINAGE DETAILS - SHEET 2
P1/BR3/0470	SEGMENT REINFORCEMENT - SHEET 2	P1/BR3/0970	LIGHTING POLES BASE DETAILS
P1/BR3/0480	SEGMENT REINFORCEMENT - SHEET 3	P1/BR3/0980	QUANTITY TABLE OF MISCELLANEOUS WORKS
P1/BR3/0490	SEGMENT REINFORCEMENT - SHEET 4		

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 SIGNATURE DATE			TRA ON BRIDGE GENERAL DRAWING LIST	P1/BR3/0010

I. GENERAL

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 LRFD98
 - BASIC WIND VELOCITY : 160 KM/H - AASHTO LRFD 98
 - 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	P/C 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.
- 4.6. MINIMUM SPlice LENGTH SHALL BE IN ACCORDANCE WITH AASHTO LRFD 1998.
- 4.7. STANDARD HOOKS AND MINIMUM BEND DIAMETER SHALL BE IN ACCORDANCE WITH AASHTO LRFD 1998.

4. REINFORCEMENT (CONTINUED)

- 4.8. 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
- 4.9. 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
EXTERNAL CABLE	12S15.2	1860	1675	2320
TOP SLAB CABLE	3S12.7	1860	1675	415

- 5.2. PRESTRESSED TENDONS SHALL BE FORMED FROM THE STRANDS OF 12.7mm OR 15.2mm 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.

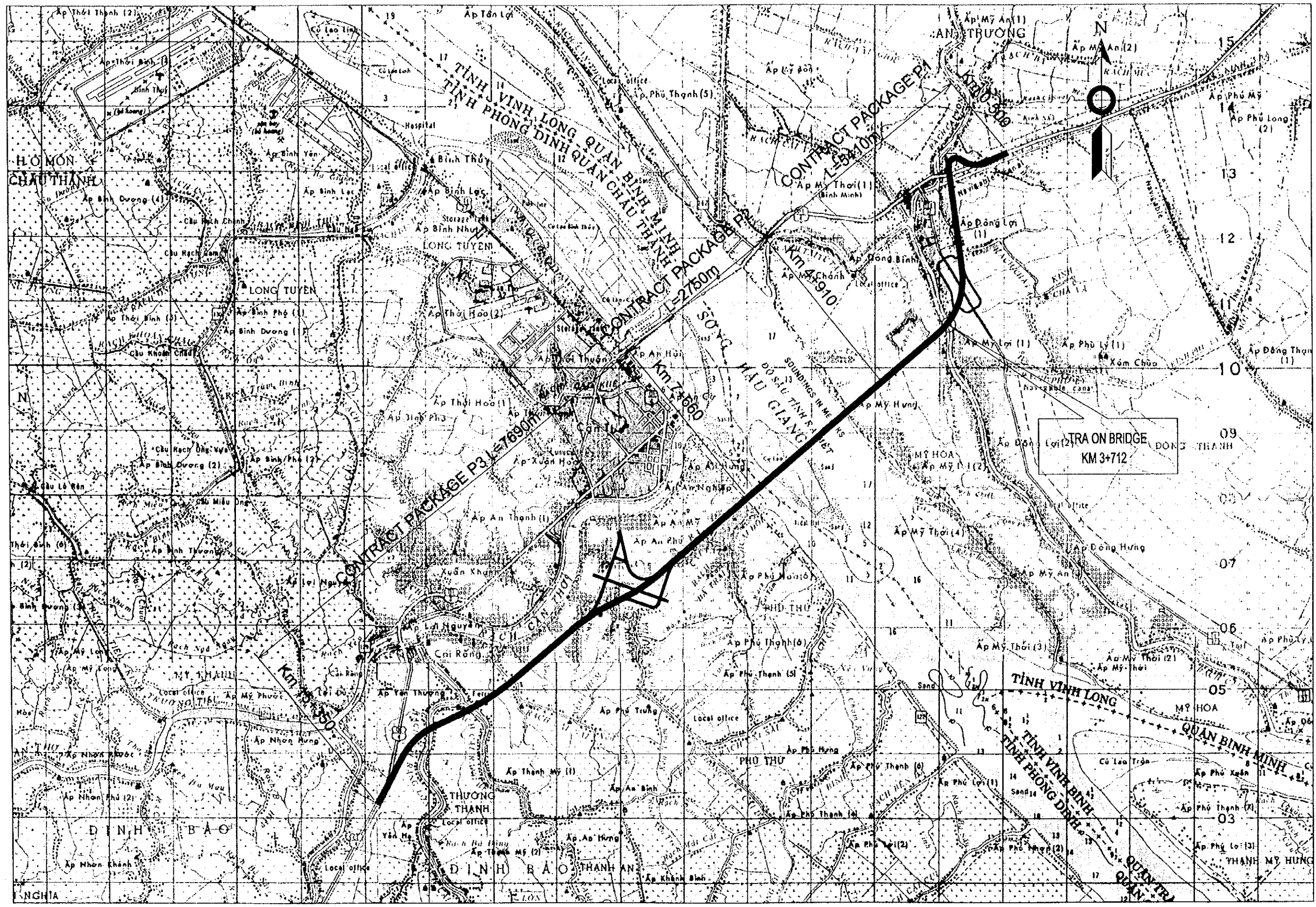
7. SUPERSTRUCTURE

- 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 BOTH INTERNAL & EXTERNAL PRESTRESSING WITH THE FOLLOWING PARAMETERS:

COEFFICIENT OF FRICTION PER RADIAN	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.

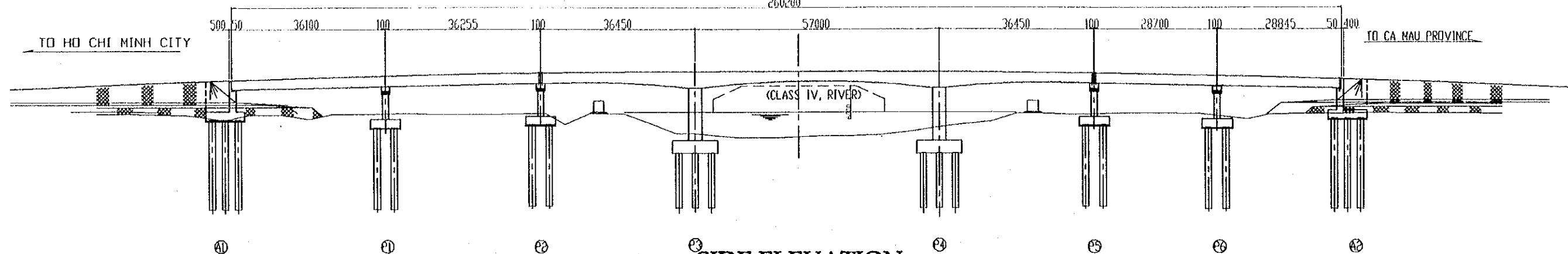
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT 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	TRAON BRIDGE GENERAL STRUCTURAL NOTES	P1/BR3/0030



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	NAME: K. Matsumoto SIGNATURE: [Signature] DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: [Signature] DATE: 5/10/2000	TRA ON BRIDGE GENERAL LOCATION MAP	P1/BR3/0040

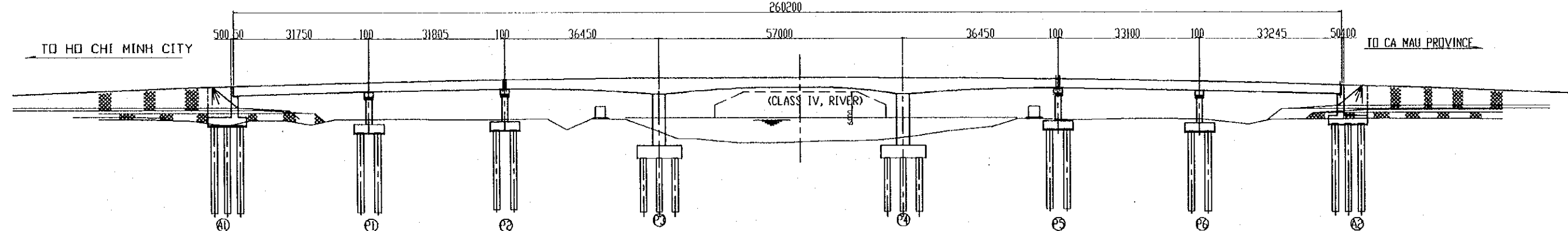
SIDE ELEVATION (HO CHI MINH CITY-CA MAU DIRECTION)

(SCALE 1/1000)
260200

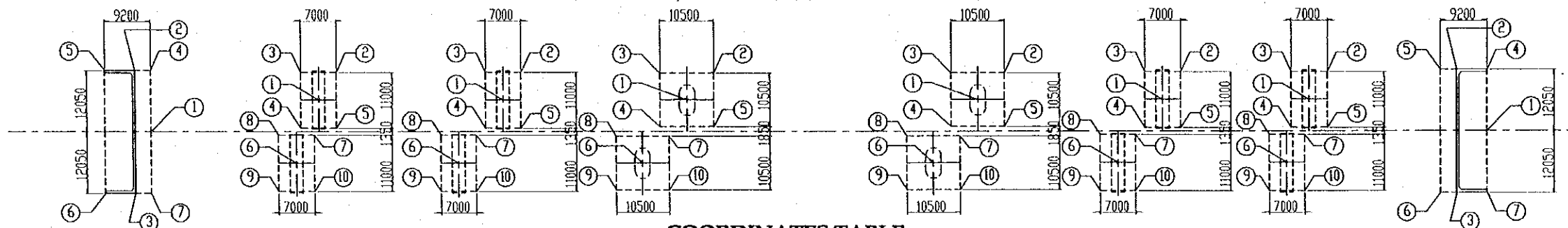


SIDE ELEVATION (HO CHI MINH CITY-CA MAU DIRECTION)

(SCALE 1/1000)
260200



PLAN



COORDINATES TABLE

POINT	A1		P1		P2		P3		P4		P5		P6		A2	
	N	E	N	E	N	E	N	E	N	E	N	E	N	E	N	E
1	1111369.564	590874.676	1111353.483	590845.205	1111330.500	590817.043	1111307.423	590788.764	1111271.384	590744.603	1111248.307	590716.324	1111230.097	590694.011	1111203.216	590670.838
2	1111381.808	590870.621	1111355.531	590839.016	1111332.517	590810.815	1111308.171	590781.377	1111272.132	590737.216	1111250.355	590710.135	1111232.146	590687.822	1111215.460	590666.783
3	1111363.136	590885.859	1111359.957	590844.439	1111336.974	590816.277	1111314.810	590789.512	1111278.771	590745.351	1111254.781	590715.559	1111236.571	590693.246	1111196.788	590682.021
4	1111378.899	590867.057	1111351.435	590851.394	1111328.452	590823.232	1111306.675	590796.151	1111270.636	590751.990	1111246.258	590722.513	1111228.049	590700.201	1111212.552	590663.219
5	1111384.716	590874.185	1111347.009	590845.971	1111323.995	590817.770	1111300.036	590788.016	1111263.997	590743.855	1111241.832	590717.090	1111223.623	590694.777	1111218.368	590670.347
6	1111366.045	590889.423	1111346.697	590856.422	1111326.496	590831.669	1111303.419	590803.390	1111267.380	590759.229	1111244.302	590730.951	1111223.311	590705.229	1111199.697	590685.584
7	1111360.228	590882.295	1111348.745	590850.233	1111328.544	590825.480	1111304.167	590796.004	1111268.128	590751.842	1111246.350	590724.762	1111225.359	590699.040	1111193.880	590678.457
8			1111353.171	590855.657	1111332.970	590830.903	1111310.805	590804.138	1111274.767	590759.977	1111250.776	590730.185	1111229.785	590704.463		
9			1111344.649	590862.611	1111324.448	590837.858	1111302.670	590810.777	1111266.632	590766.616	1111242.254	590737.140	1111221.263	590711.418		
10			1111340.223	590857.188	1111320.022	590832.435	1111296.032	590802.642	1111259.993	590758.481	1111237.828	590731.716	1111216.837	590705.995		

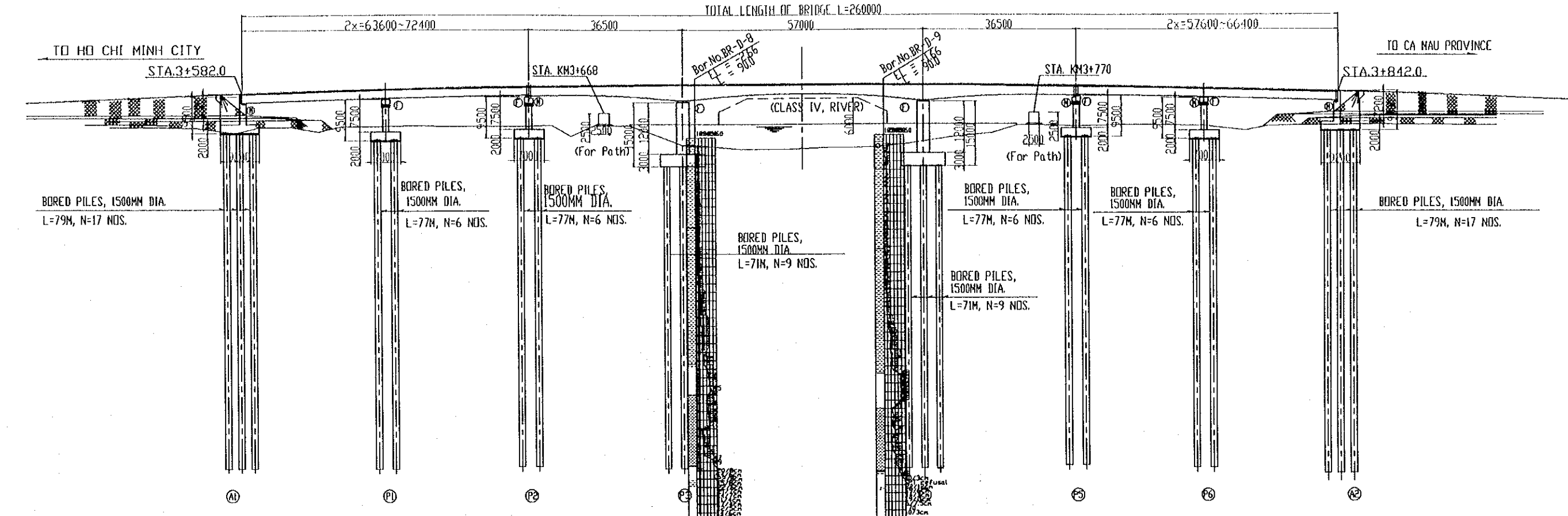
NOTES:

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR3/0030.

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	TRA ON BRIDGE GENERAL COORDINATES OF BRIDGE	P1/BR3/0050
				DATE: 20/9/2000	DATE: 29/9/2000	DATE: 5/10/2000		

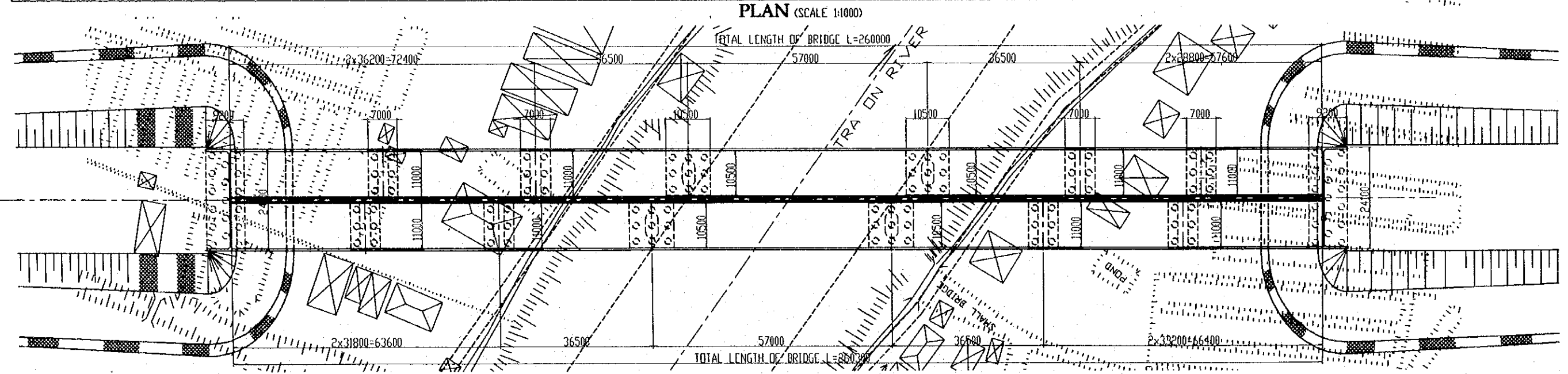
SIDE ELEVATION (HO CHI MINH CITY - CA MAU DIRECTION)

(SCALE 1:1000)



DATUM LEVEL = -93.00

GRADIENT	4.349% K=253.00		VERTICAL CURVE R=402.14.99 L=350.0m		4.349% K=253.00																																										
SUPERELEVATION	-2%																																														
DESIGN LEVELS (m)	9.175, 10.041, 10.988, 11.189, 10.988, 10.941																																														
EXISTING LEVELS	3550.00	3560.00	3571.23	3585.70	3589.50	3593.58	3600.00	3605.42	3610.91	3620.18	3625.52	3629.86	3640.00	3650.31	3655.40	3660.00	3665.89	3670.02	3674.07	3679.91	3686.61	3689.99	3699.95	3709.85	3715.00	3720.96	3725.01	3733.13	3740.00	3749.76	3760.00	3765.91	3769.99	3780.00	3790.18	3793.75	3800.01	3807.14	3809.39	3820.01	3825.21	3833.48	3840.01	3849.91	3860.00	3869.31	3880.00
CHAINAGE	3550.00	3560.00	3571.23	3585.70	3589.50	3593.58	3600.00	3605.42	3610.91	3620.18	3625.52	3629.86	3640.00	3650.31	3655.40	3660.00	3665.89	3670.02	3674.07	3679.91	3686.61	3689.99	3699.95	3709.85	3715.00	3720.96	3725.01	3733.13	3740.00	3749.76	3760.00	3765.91	3769.99	3780.00	3790.18	3793.75	3800.01	3807.14	3809.39	3820.01	3825.21	3833.48	3840.01	3849.91	3860.00	3869.31	3880.00

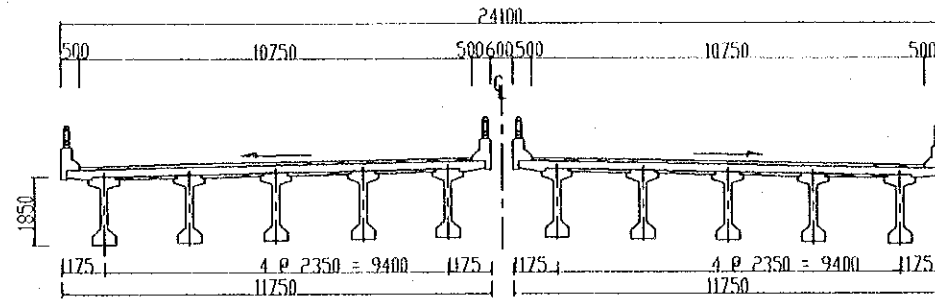


PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM NIPPON KOEI CO., LTD.	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE TRA ON BRIDGE GENERAL GENERAL VIEW SHEET-1	DWG NO. P1/BR3/0060	
				NAME	T. Kametani	K. Matsumoto			K. Enomoto
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

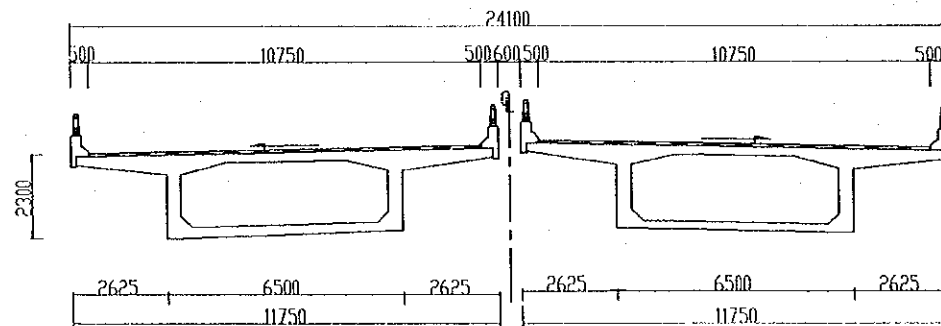
TYPICAL SECTIONS FOR SUPERSTRUCTURE

(SCALE 1:200)

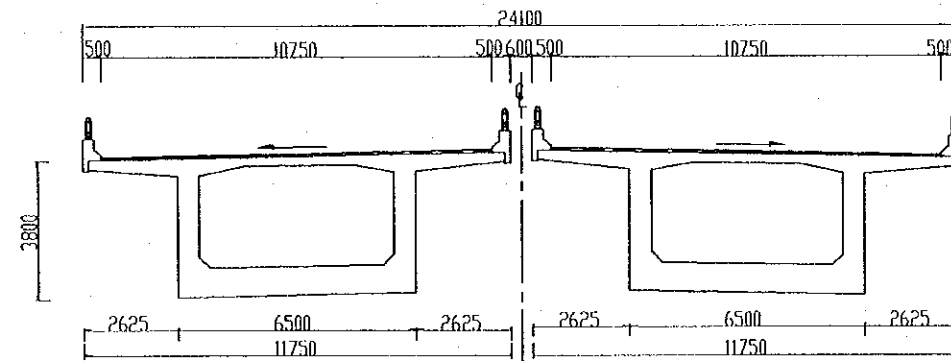
AT ABUTMENT A1,A2&PIER P1,P4



AT CENTER SPAN&END SPAN



AT PIER P2&PIER P3

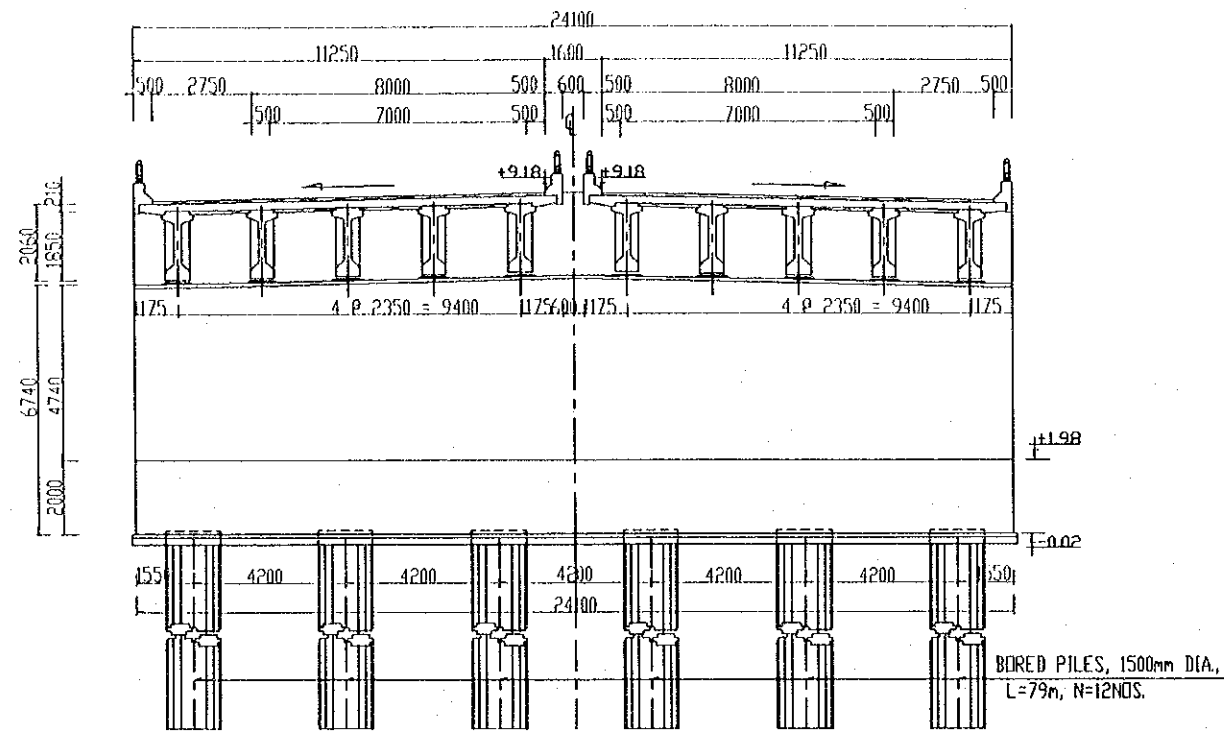


PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	T. Kametani	K. Matsumoto	K. Enomoto	TRA ON BRIDGE GENERAL GENERAL VIEW-SHEET2	P1/BR3/0070
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

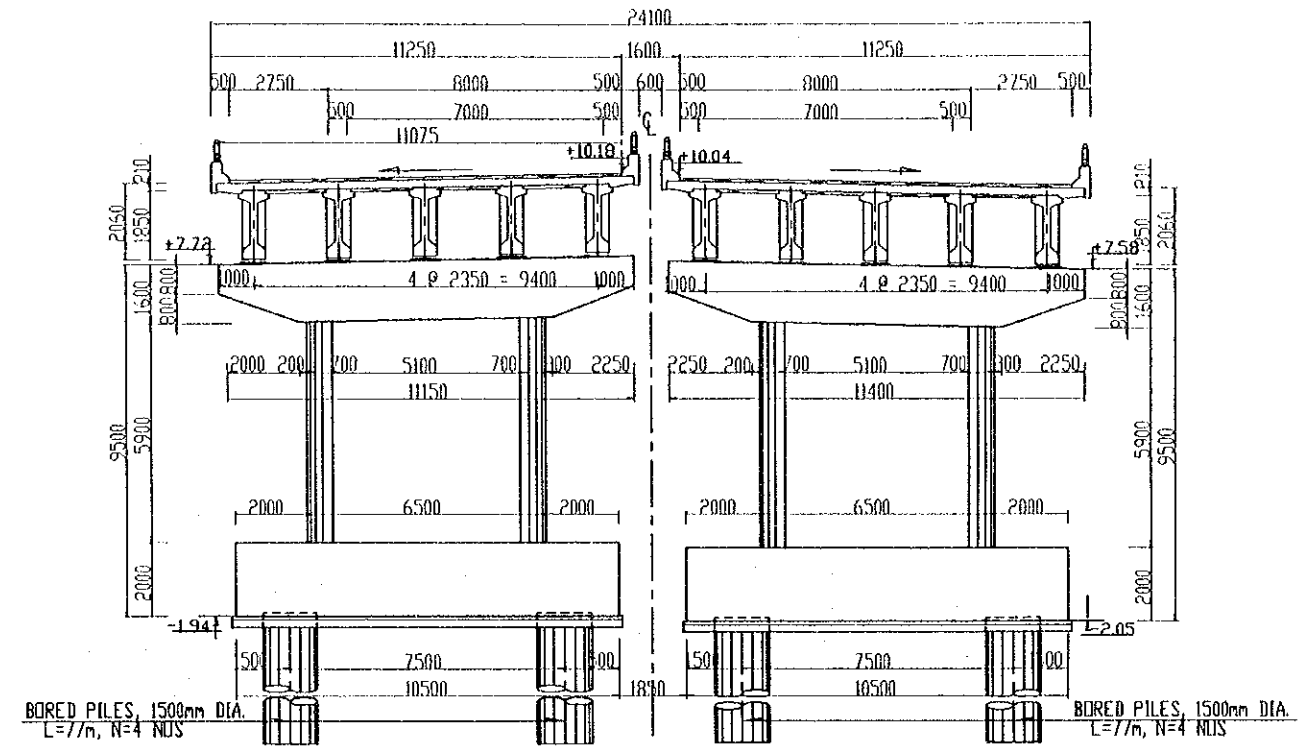
CROSS SECTIONS

(SCALE 1:200)

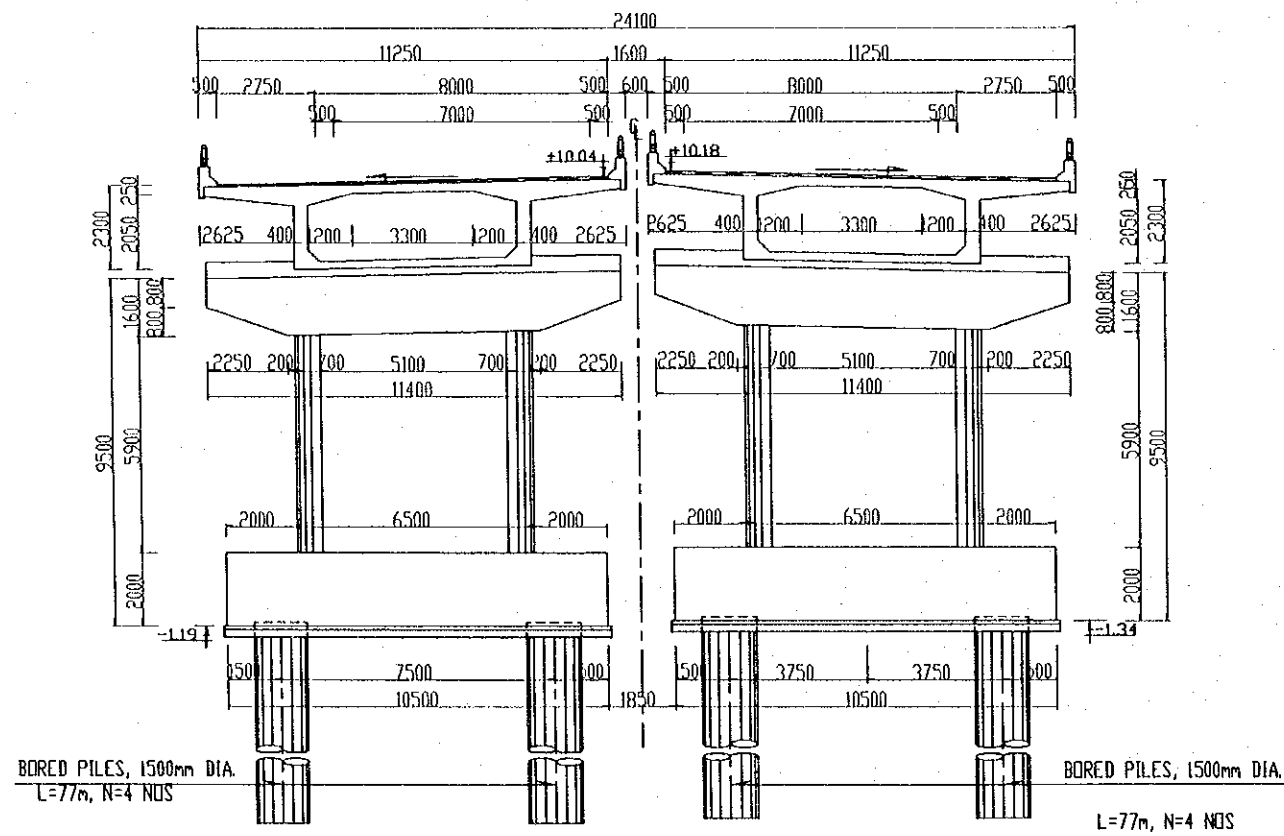
A-A (ABUTMENT A1)



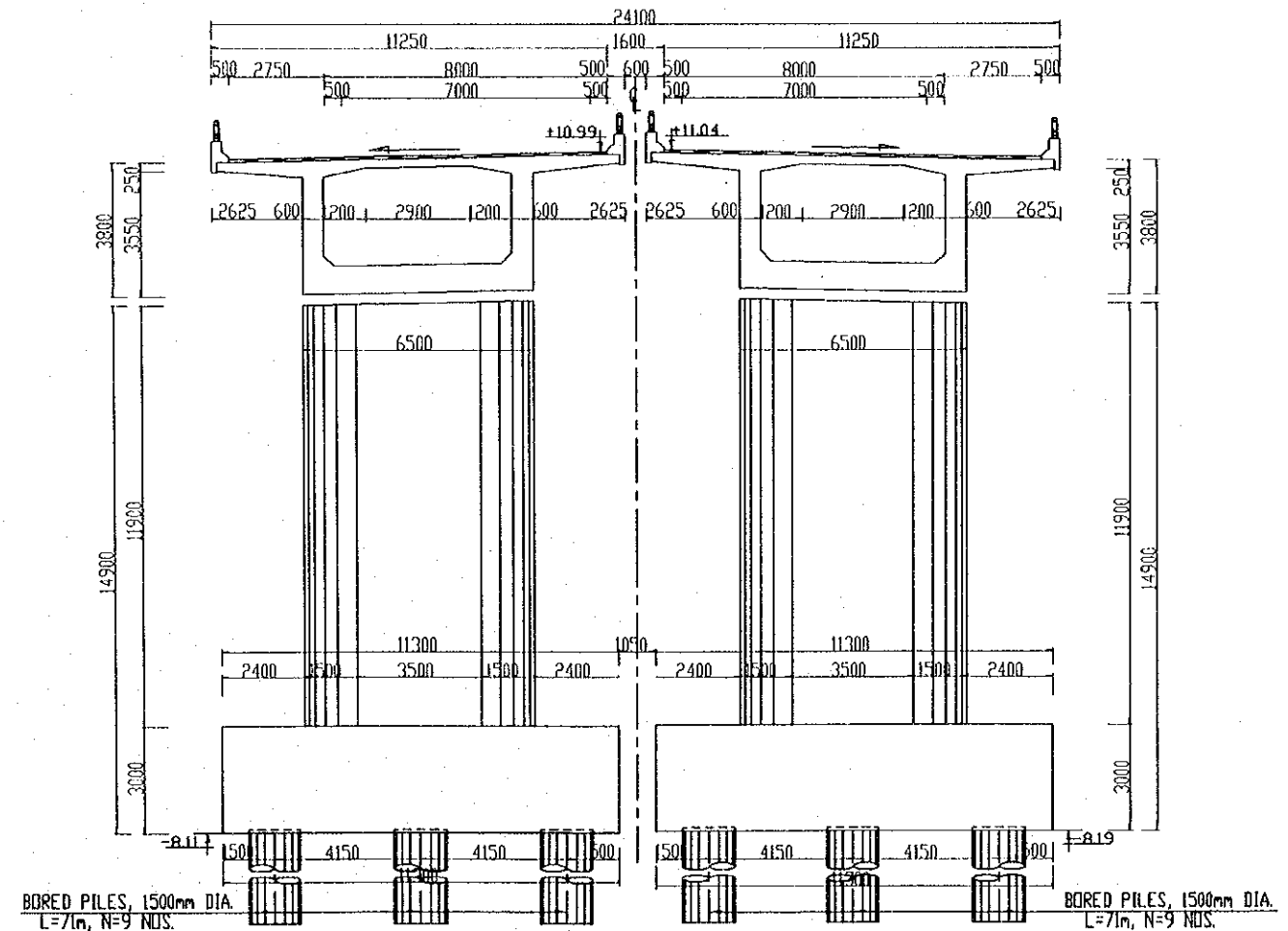
B-B (PIER P1)



C-C (PIER P2)



D-D (PIER P3)



PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG. NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KORI CO., LTD.	NAME: T. Kametani SIGNATURE: DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE: DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: DATE: 5/10/2000	TRA ON BRIDGE GENERAL GENERAL VIEW SHEETS	P1/BR3/0080