

P1/SGT

**EMBANKMENT AND SOFT
GROUND TREATMENT**

GENERAL NOTES FOR SOFT GROUND TREATMENT

I. GENERAL

- (1) UNSUITABLE MATERIAL ENCOUNTERED IN THE SUBGRADE SHALL BE REMOVED TO THE DEPTH DIRECTED BY THE ENGINEER AND BACKFILLED AND COMPACTED WITH APPROVED MATERIAL.
- (2) THE SAND BLANKET SHALL BE PLACED ONTO THE CLEARING GROUND SURFACE BEFORE INSTALLING PREFABRICATED VERTICAL DRAIN.
- (3) THE CONTRACTOR SHALL MAINTAIN FLOW OF IRRIGATION CANALS AND DRAINAGE WAYS, AND PROVIDE TEMPORARY FARM ACCESS CROSSING DURING EMBANKMENT PRE-LOADING PERIOD.
- (4) SURCHARGE MATERIAL IN AREAS TO BE PAVED SHALL BE SUITABLE TO EMBANKMENT PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS.

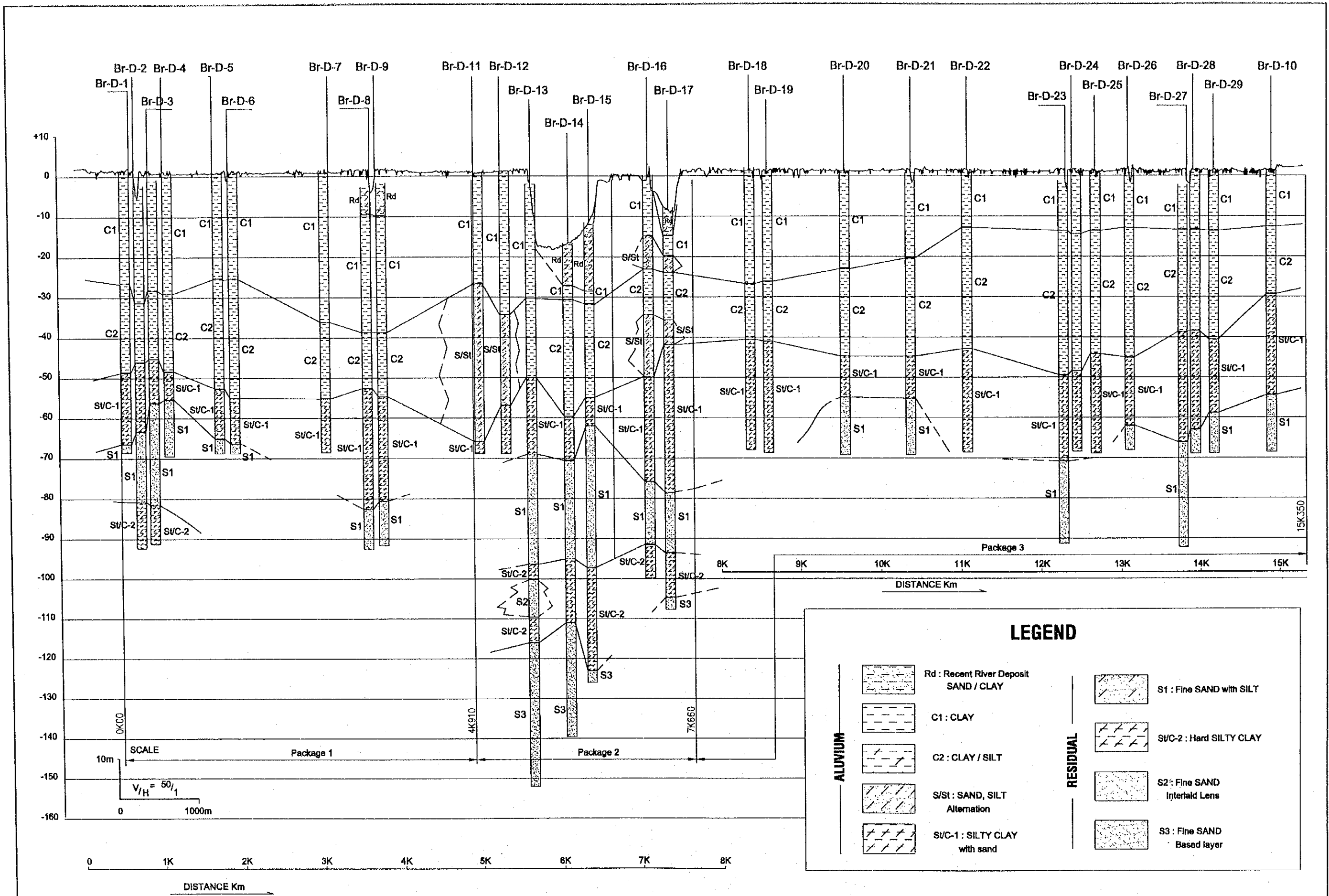
II. PREFABRICATED VERTICAL DRAINS (PVD)

- (1) PVD SHALL BE INSTALLED UNDER EMBANKMENTS FOR DESIGNATED SECTIONS.
- (2) THE CONTRACTOR SHALL SUBMIT DETAILED LAYOUT OF PVD FOR APPROVAL BY THE ENGINEER BEFORE COMMENCEMENT OF WORK IN ANY AREA IN ACCORDANCE WITH THE SPECIFICATIONS.
- (3) PVD SHALL BE PLACED IN A REGULAR EQUILATERAL TRIANGULAR WITH THE CENTER-TO-CENTER SPACING AND DEPTH DESIGNATED.
- (4) IN TRANSITION SECTION, PVD LENGTH SHALL BE ADJUSTED TO CONTROL SETTLEMENT FOR A SMOOTH TRANSITION. DETAILED LAYOUT OF PVD IN TRANSITION SHALL BE APPROVABLE BY THE ENGINEER BEFORE COMMENCEMENT OF WORK IN ANY AREA IN ACCORDANCE WITH THE SPECIFICATIONS.
- (5) THE CONTRACTOR SHALL CUT PVD AT NOT LESS THAN 150 MM ABOVE THE WORKING SURFACE.

III. INSTRUMENTATION

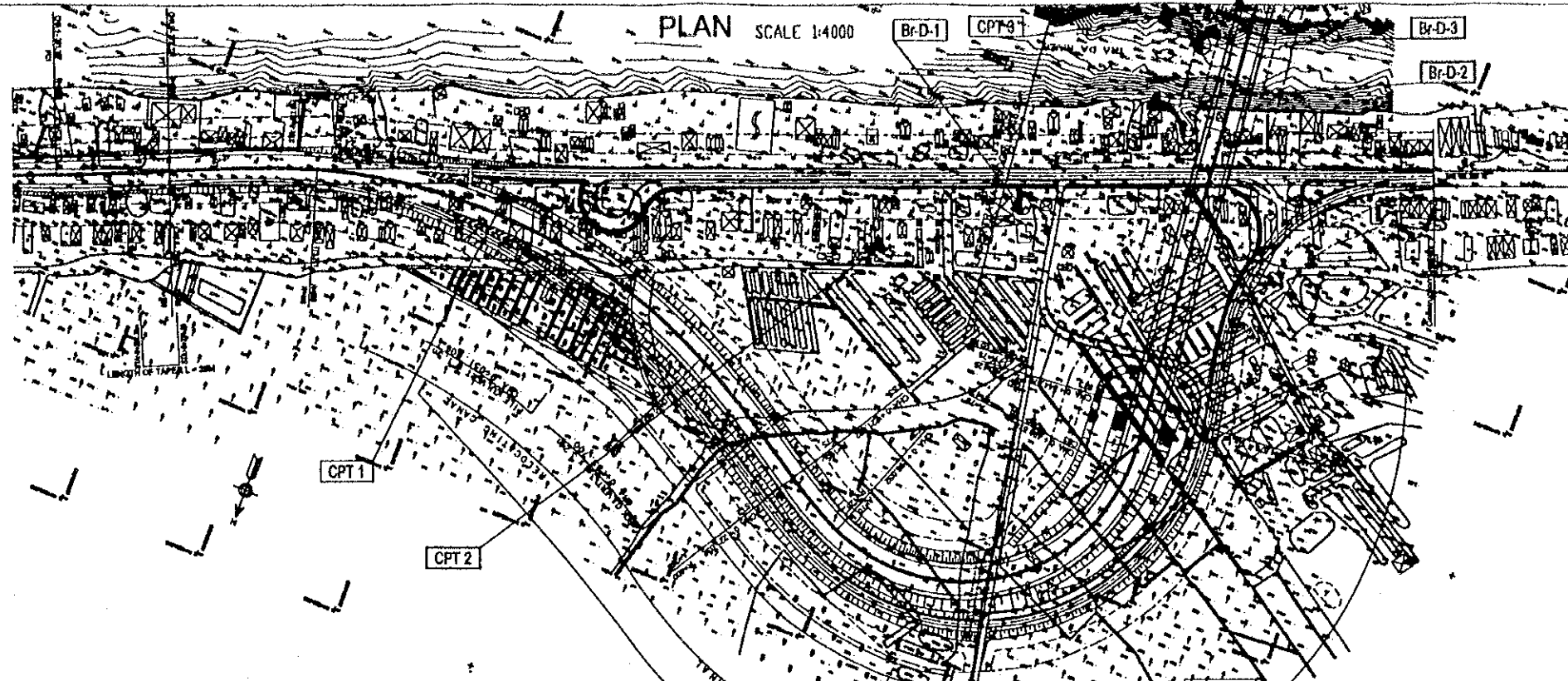
- (1) MOVING OBSERVATION DEVICES SHALL BE INSTALLED AS INDICATED IN DWG. No. P1/SGT/0270, ..., P1/SGT/0320.
- (2) MOVING OBSERVATION DEVICES SHALL BE MONITORED DAILY DURING FILLING OPERATIONS, THEN AT ONCE WEEKLY INTERVALS FOR PERIOD OF ONE YEAR EXCEPT FOR IN THE CASE THAT IT WAS DIRECTED BY THE CONSULTANT.
- (3) THE MOVEMENT OBSERVATION RESULT SHOULD BE ENTERED TO THE STABILITY CONTROL CHART OF BANKING DAILY, AND THE CONTRACTOR SHOULD STOP THE FILLING IN THE CASE THAT THE INDICATION OF THE SLIDING OF EMBANKMENT WAS SEEN AND SHOULD REPORT TO THE CONSULTANT IMMEDIATELY.
- (4) INSTRUMENTATIONS SHALL BE MAINTAINED IN FULL WORKING ORDER AT ALL TIMES. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR.
- (5) ON COMPLETION OF THE SETTLEMENT PERIOD, AS AGREED BY THE CONSULTANT, INSTRUMENTATIONS SHALL BE REMOVED. SURFACE SETTLEMENT PLATES (SSP), DEEP SETTLEMENT PLATES (DSP) AND OBSERVATION WELL (OW) SHALL BE CUT DOWN TO A LEVEL AT LEAST 1.0M BELOW FINAL PAVEMENT LEVEL AS THE REMAINING LENGTH BACK-FILLED TO THE SATISFACTION OF THE CONSULTANT.

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	K. Nemoto	K. Nakai	K. Enomoto	SOFT GROUND TREATMENT GENERAL NOTES	P1/SGT/0010
				SIGNATURE	<i>K. Nemoto</i>	<i>K. Nakai</i>	<i>K. Enomoto</i>		
				DATE	20/9/2000	29/9/2000	5/10/2000		



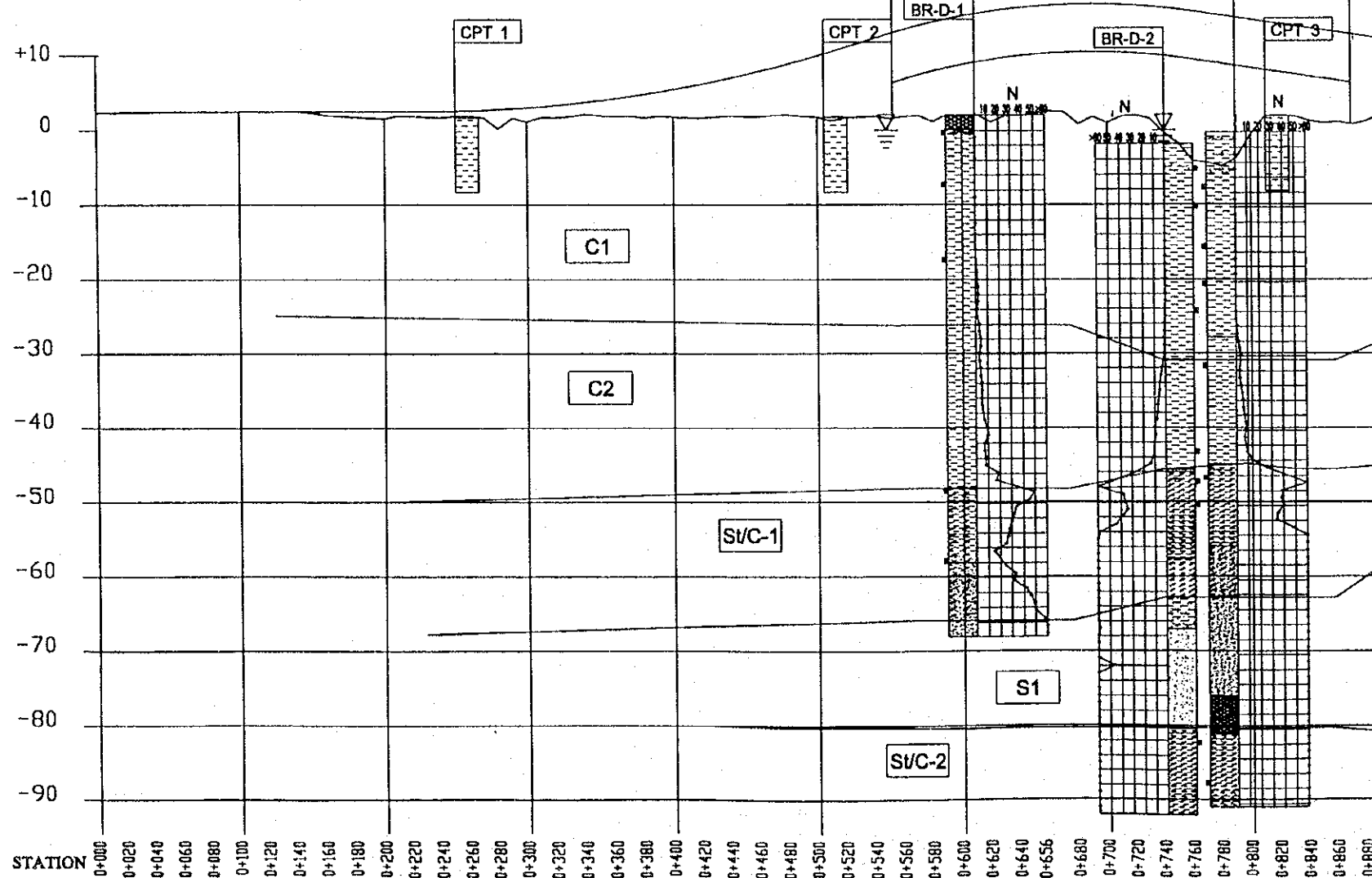
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	DESIGN SEGMENT OF SOFT GROUND TREATMENT	P1/SGT/0020

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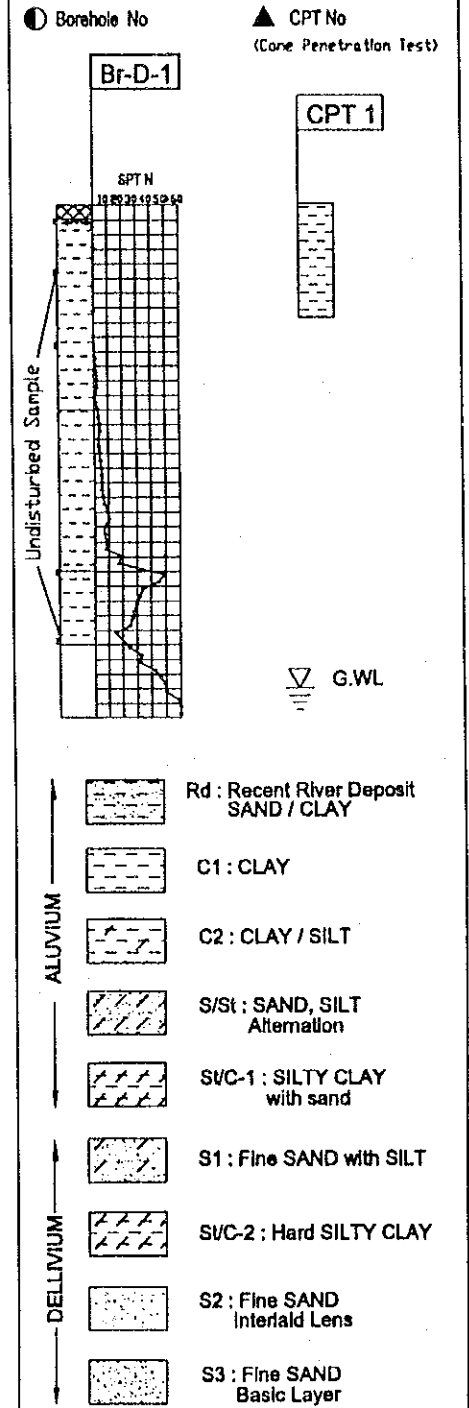


PROFILE

LARGE TRA VA BRIDGE L = 316.90m

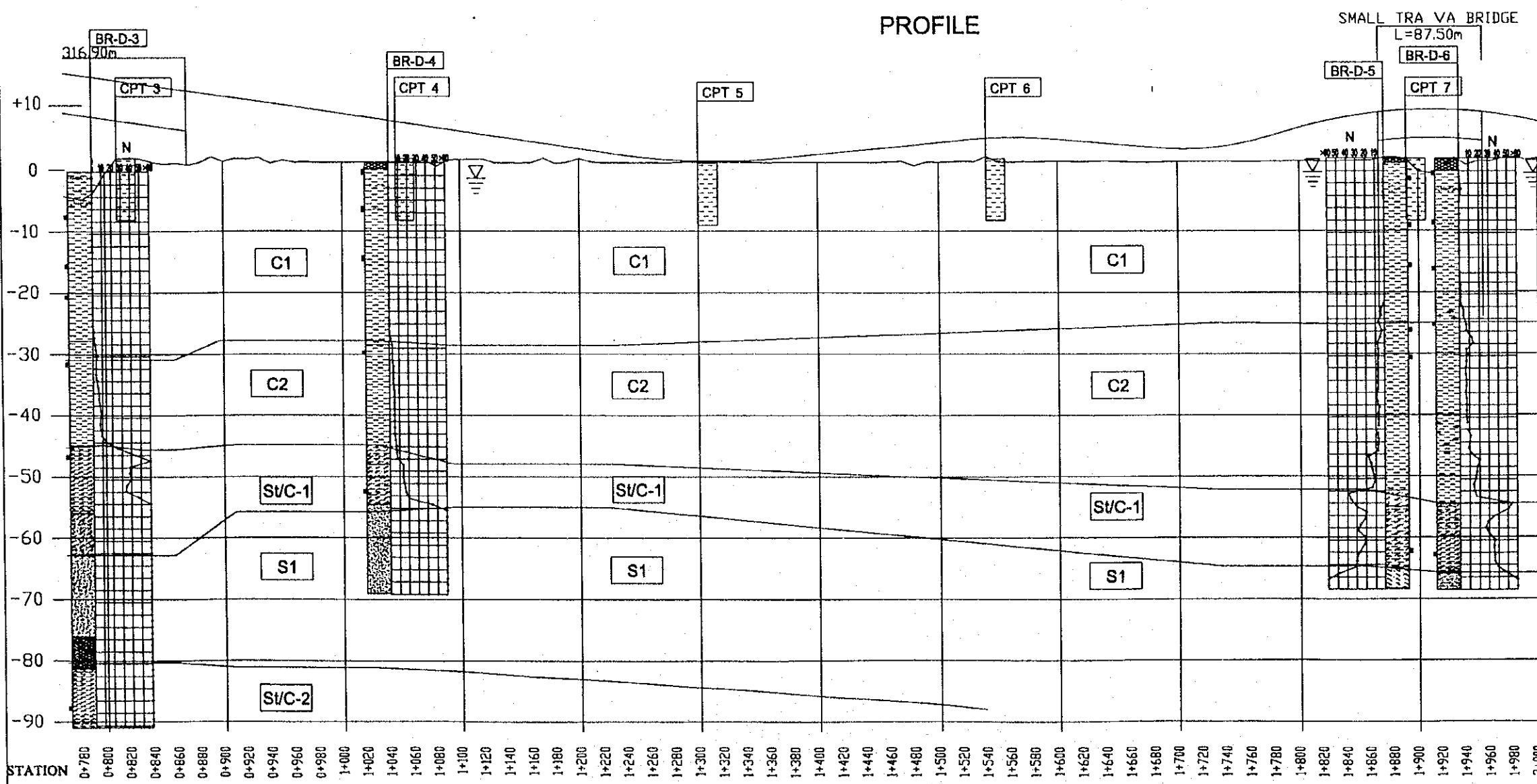
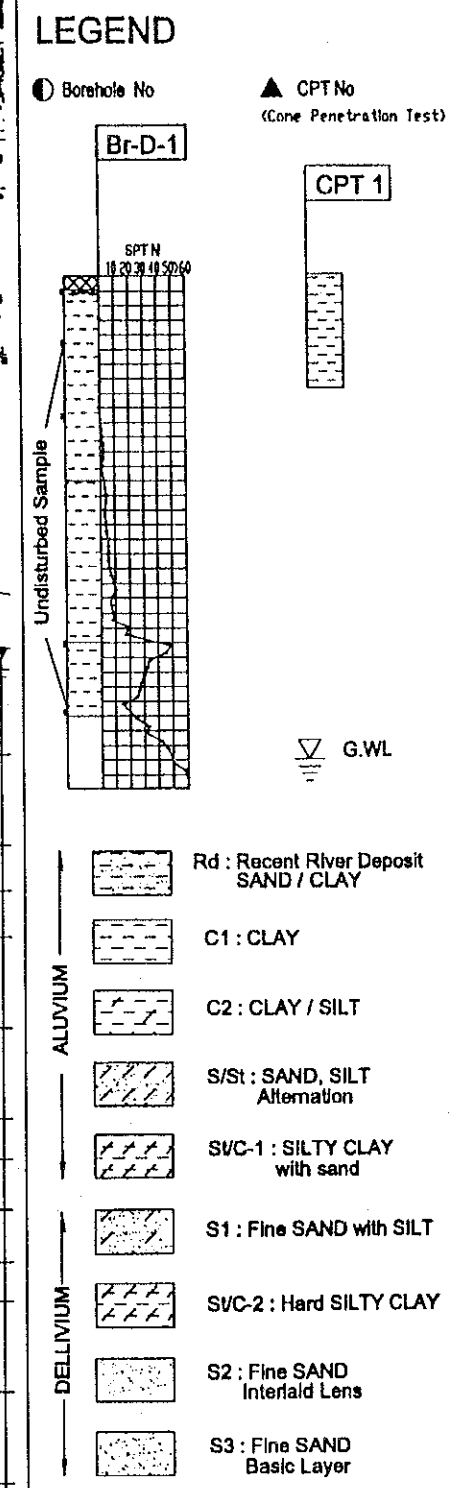
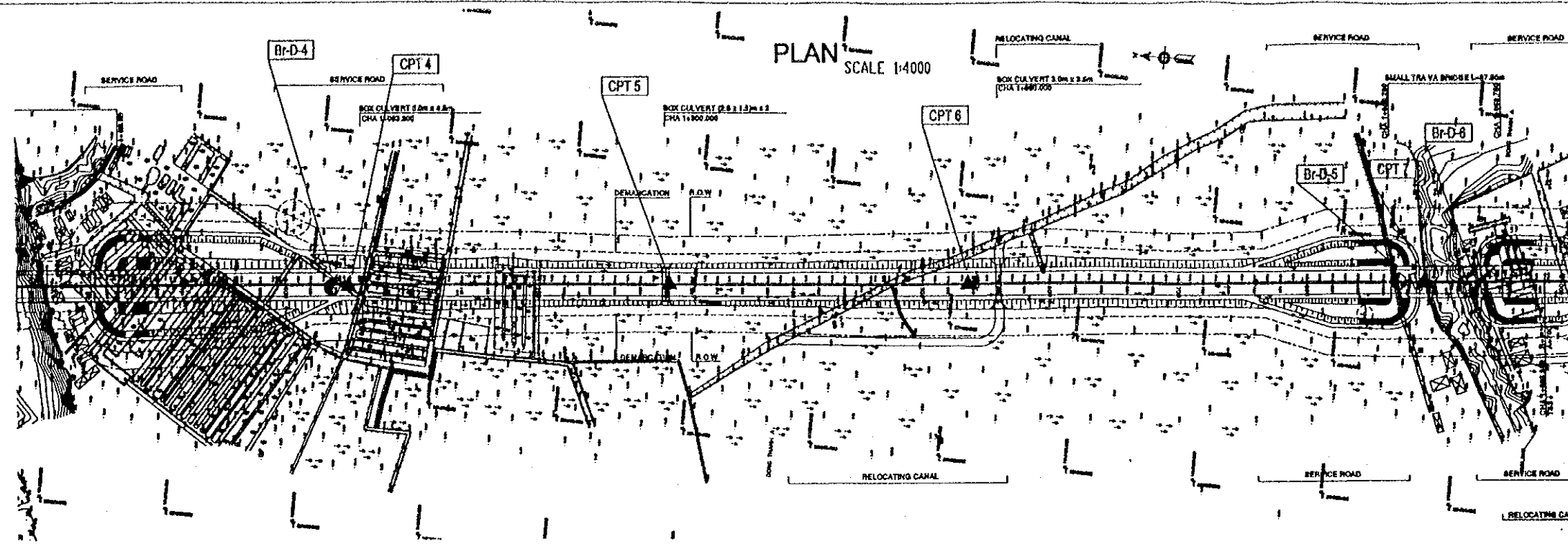


LEGEND



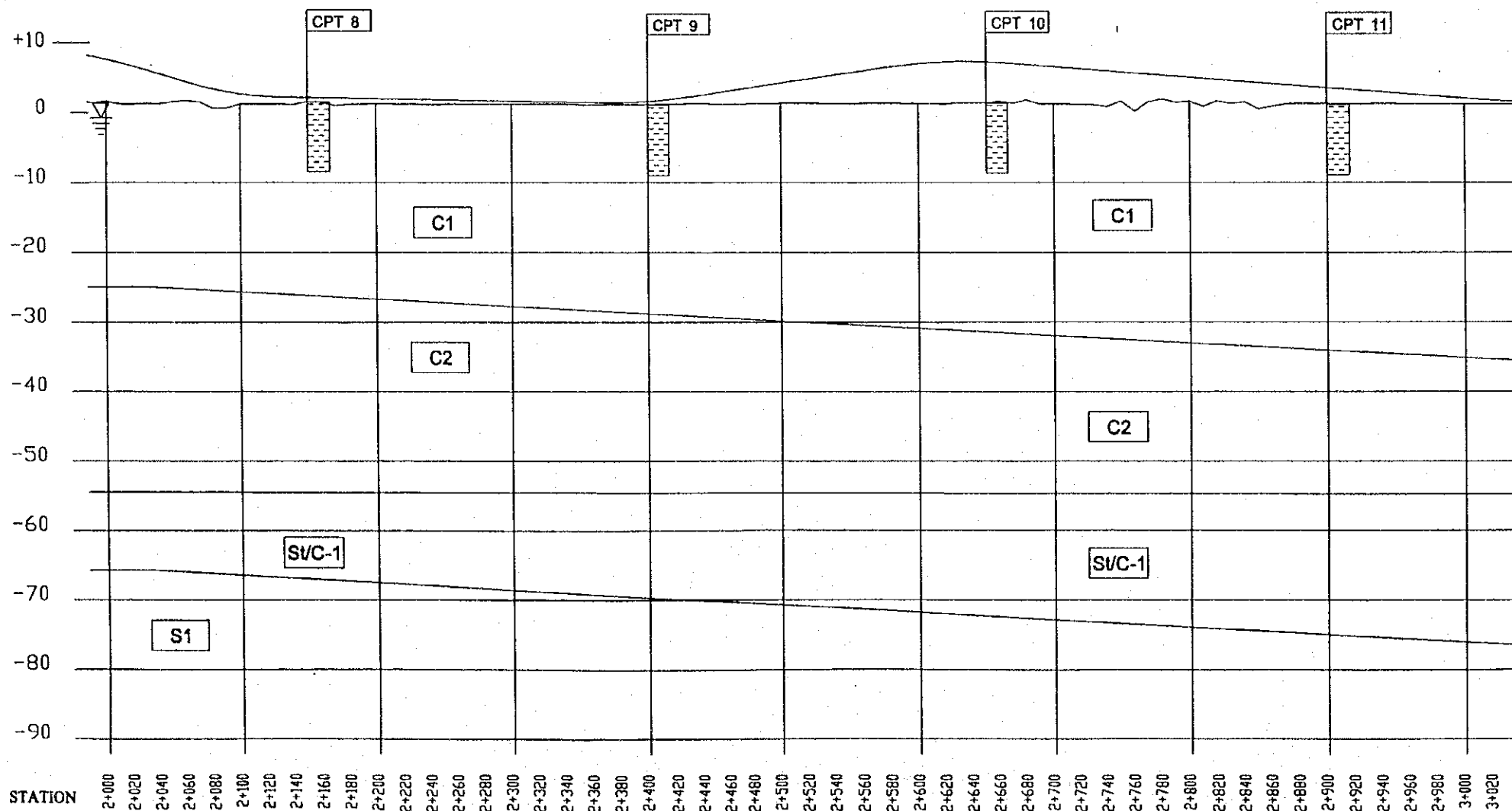
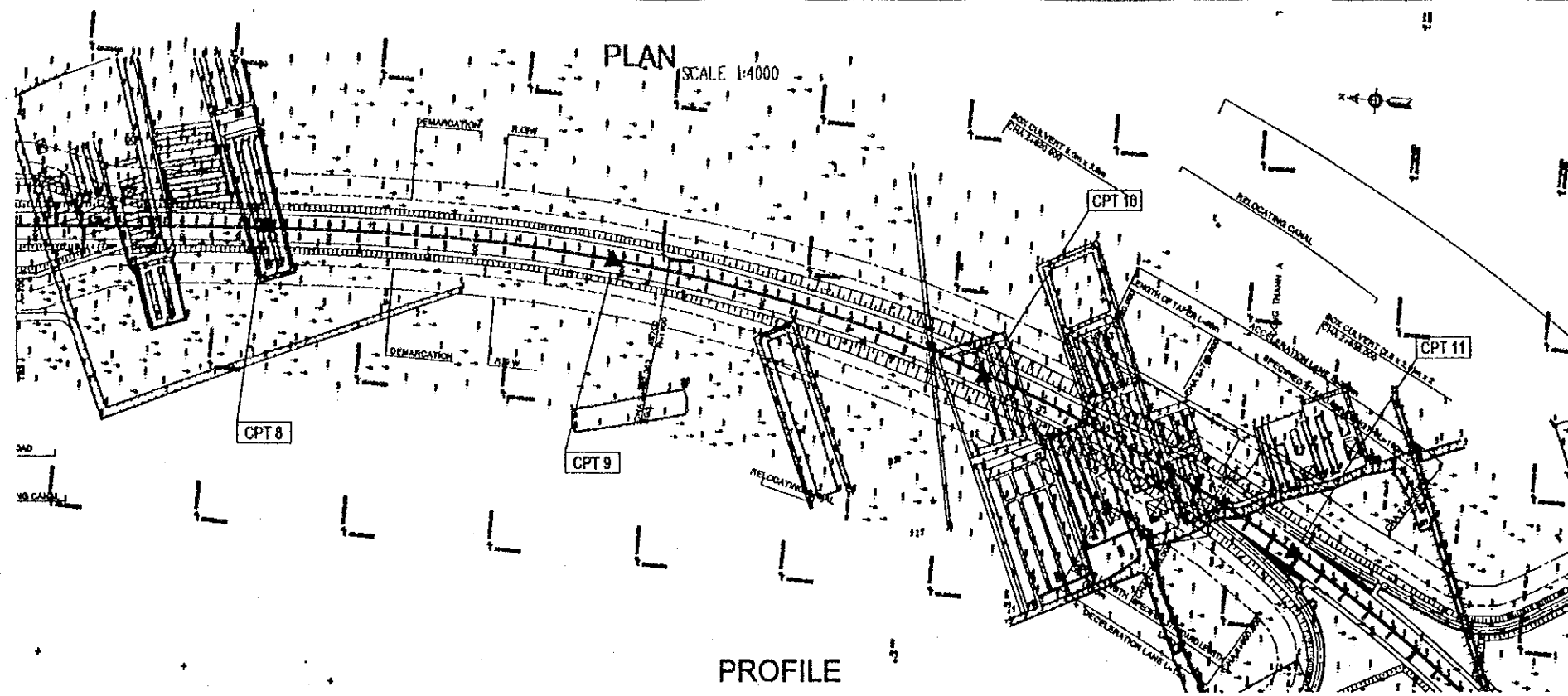
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
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PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO., LTD.	K. Nemoto	K. Nakai	K. Enomoto	GEOLOGICAL PROFILE KM0+880_KM0+200 (2/5)	P1/SGT/0040
				NAME: K. Nemoto	NAME: K. Nakai	NAME: K. Enomoto		
				SIGNATURE: <i>K. Nemoto</i>	SIGNATURE: <i>K. Nakai</i>	SIGNATURE: <i>K. Enomoto</i>		
				DATE: 20/9/2000	DATE: 29/9/2000	DATE: 5/10/2000		

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LEGEND

● Borehole No ▲ CPT No (Cone Penetration Test)

Br-D-1

SPT N
10 20 30 40 50 60

Undisturbed Sample

▽ G.W.L

ALUVIUM

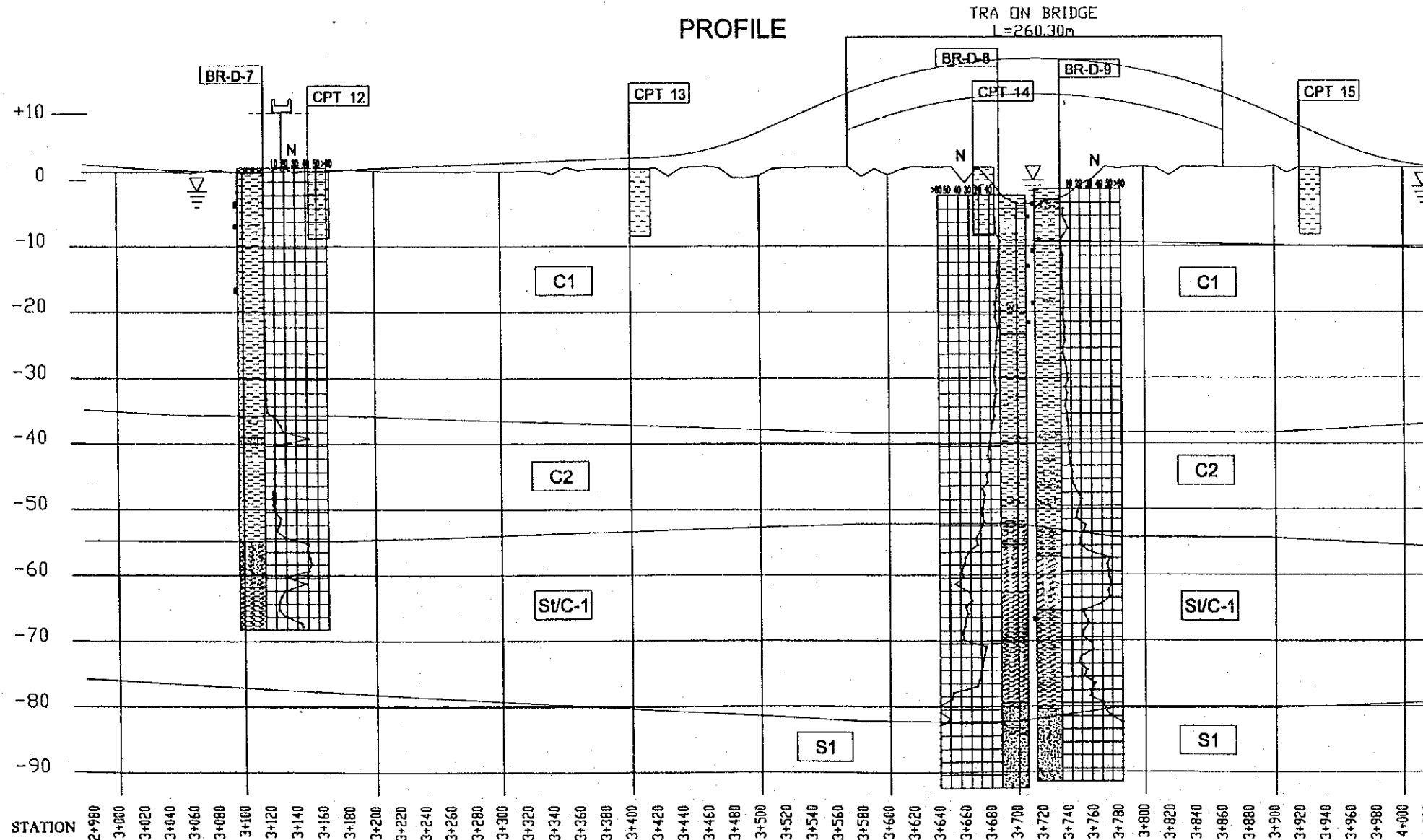
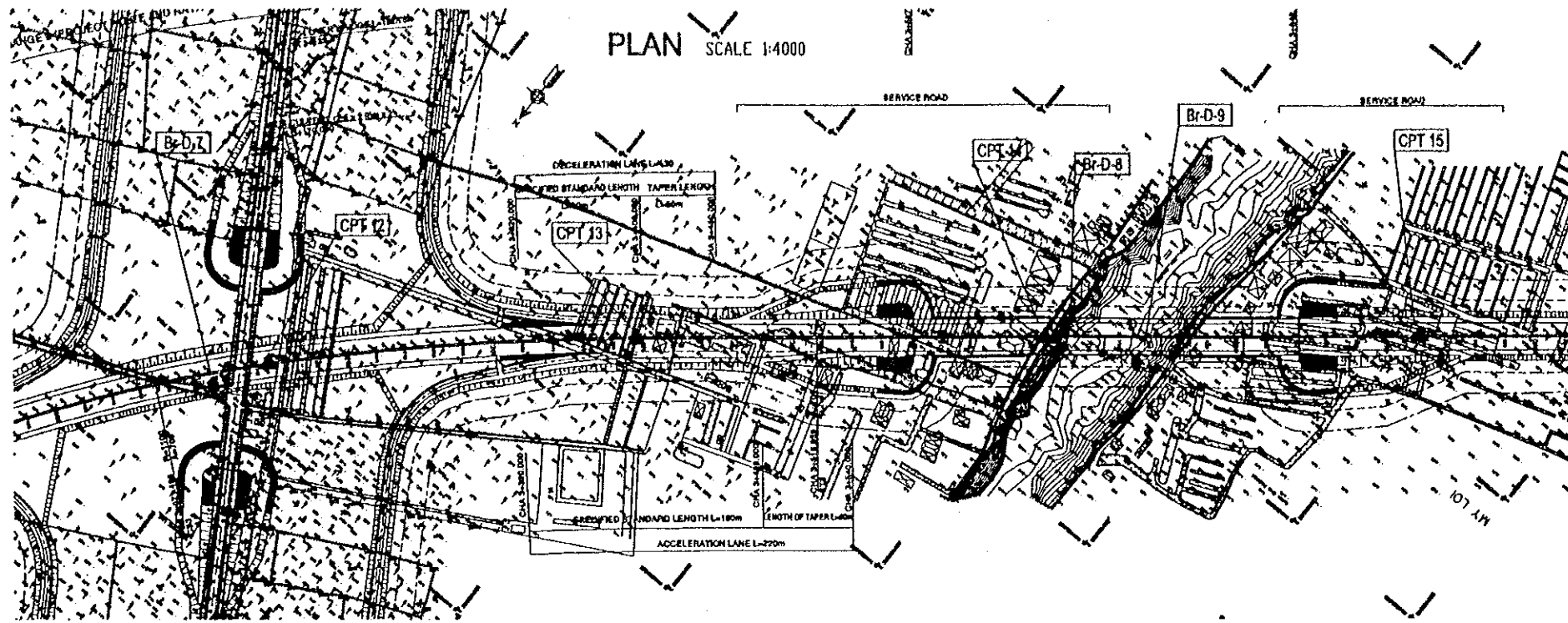
- Rd : Recent River Deposit SAND / CLAY
- C1 : CLAY
- C2 : CLAY / SILT
- S/St : SAND, SILT Alternation
- SVC-1 : SILTY CLAY with sand
- S1 : Fine SAND with SILT

DELLVIUM

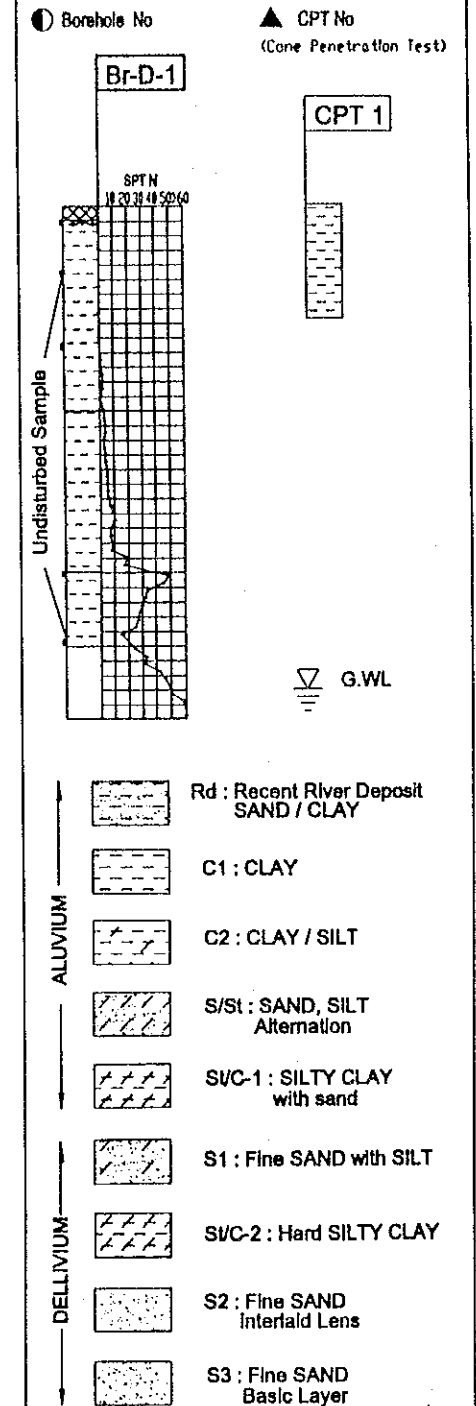
- SVC-2 : Hard SILTY CLAY
- S2 : Fine SAND Interlaid Lens
- S3 : Fine SAND Basic Layer

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
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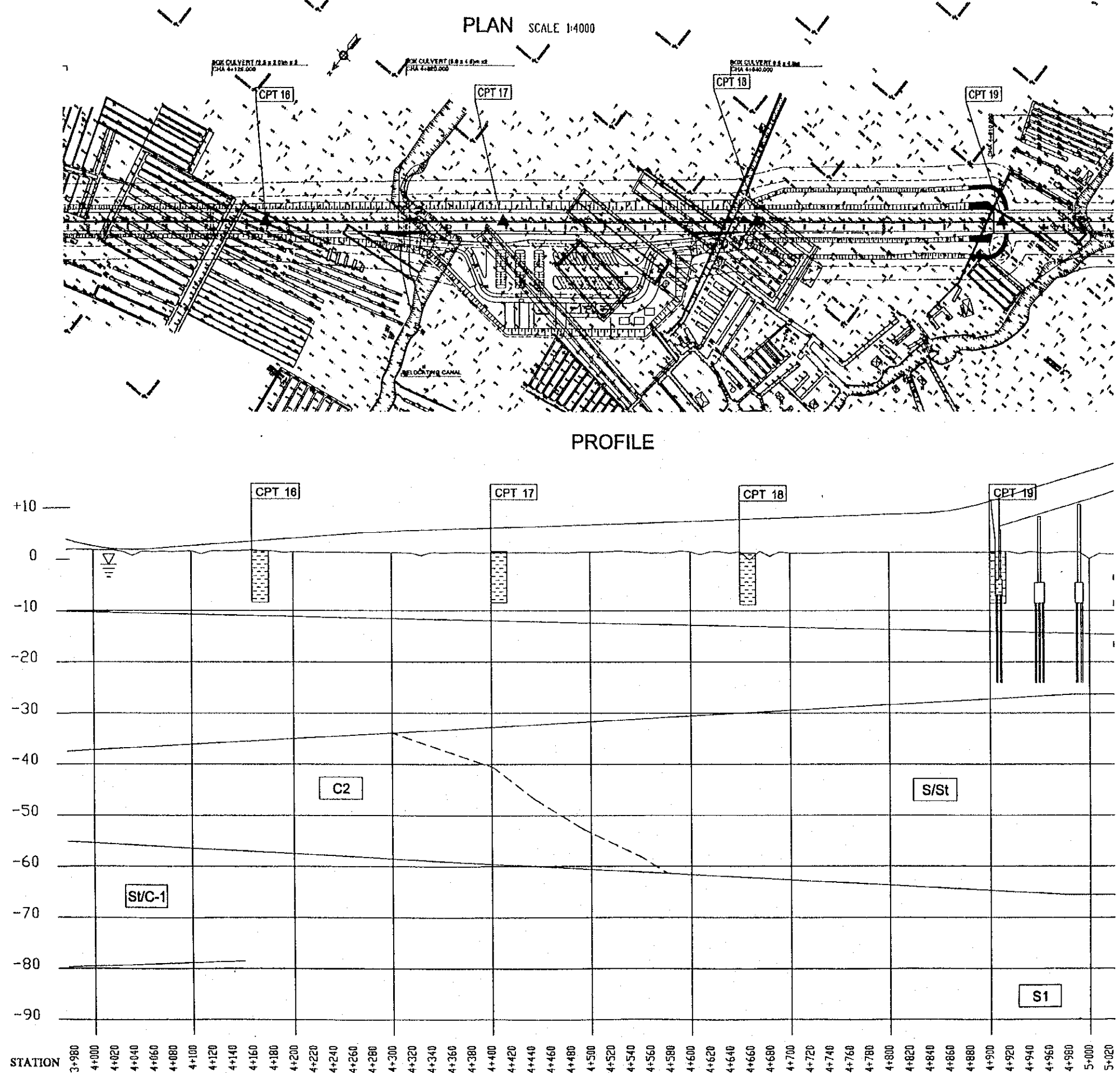


LEGEND



PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM NIPPON KOEI CO.,LTD.	PREPARED BY NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	CHECKED BY K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	APPROVED BY K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	DRAWING TITLE GEOLOGICAL PROFILE KM3+000_KM4+000 (4/5)	DWG NO. PI/SGT/0060
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LEGEND

- Borehole No
- ▲ CPT No (Cone Penetration Test)
- Br-D-1
- SPT N 11 20.38 41.50 60
- Undisturbed Sample
- G.WL
- ALUVIUM
 - Rd : Recent River Deposit SAND / CLAY
 - C1 : CLAY
 - C2 : CLAY / SILT
 - S/St : SAND, SILT Alternation
 - SVC-1 : SILTY CLAY with sand
 - S1 : Fine SAND with SILT
- DELLVIUM
 - SVC-2 : Hard SILTY CLAY
 - S2 : Fine SAND Interlaid Lens
 - S3 : Fine SAND Basic Layer

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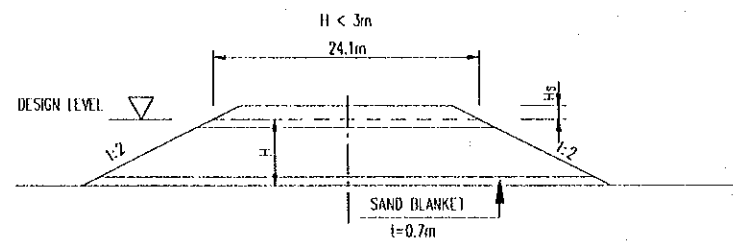
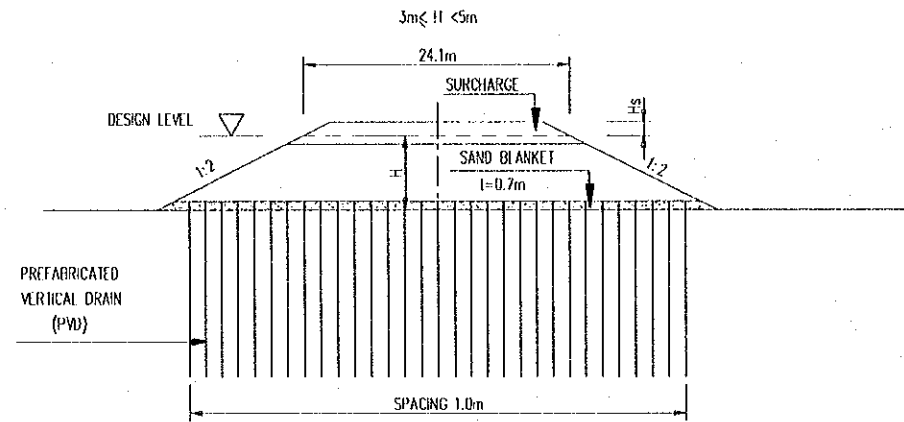
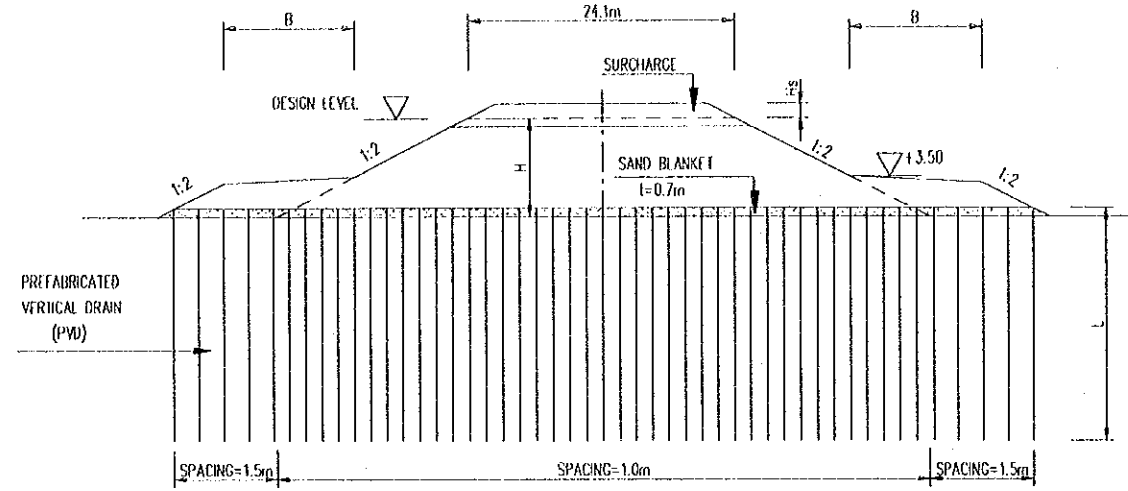
**SUMMARY OF LABORATORY TEST RESULTS OF BOREHOLES: BR-D-6 (KM1+940)
BR-D-7 (KM3+120)
BR-D-8 (KM3+690)
BR-D-9 (KM3+730)**

Layer name	No	Borehole symbol	Laboratory No	Sample depth (m)	Soil Name (ASTM D2487-83)	Particle size analysis (%)					Water content %	Unit weight g/cm ³	Dry weight g/cm ³	Specific gravity	Saturation %	Porosity %	Void ratio	Liquid Limit %	Plastic limit %	Plasticity Index	Liquidly Index	Organic matter %	Unconfined compressive strength kg/cm ²	Permeability k10 cm/s	Triaxial compression						Consolidation Test							
						Gravel	Sand			Clay															UU Type	CU Type		Consolidation Test										
						to 4.75 mm	to 2.00 mm	to 0.425 mm	to 0.075 mm	to 0.005 mm															to 0.002 mm	to 2.00 mm	to 0.425 mm	to 0.075 mm	to 0.005 mm	to 0.002 mm	Internal friction angle φ ^o	Cohesion C kg/cm ²	Internal friction angle φ ^o	Cohesion C kg/cm ²	Internal friction angle φ ^o	Cohesion C' kg/cm ²	Consolidation coefficient	Compression index
Cl-U	29	Br-D-6	930	2.0 - 3.0	CH : Fat CLAY		4.0	62.5	10.2	23.3	55.5	1.65	1.06	2.67	98	60	1.519	52.3	27.1	25.2	1.13	5.7	0.119			31'40"			0.302	~	0.967	0.69	0.05	1.28				
Cl-U	30	Br-D-6	931	10.0 - 11.0	CH : Fat CLAY with SAND		19.0	39.0	12.7	29.3	62.6	1.62	1.00	2.67	100	63	1.670	57.9	26.3	31.6	1.15	5.3			9'32"	0.065					0.951	~	1.491	0.73	0.08	0.93		
Cl	31	Br-D-6	932	17.5 - 18.5	CL : Sandy CLAY	1.0	33.0	32.7	9.0	24.3	39.7	1.69	1.21	2.68	88	55	1.215	44.9	22.3	22.6	0.77	3.5	0.331			7'49"	0.094					1.591	~	2.911	0.52	0.06	1.69	
C2	32	Br-D-6	933	26.5 - 27.0	CL : Lean CLAY		7.0	60.0	10.7	22.3	43.2	1.71	1.19	2.69	92	56	1.261	45.8	24.7	21.1	0.88												1.18	~	1.75	0.13	0.02	3.00
Sl/C-1	33	Br-D-6	934	64.0 - 64.5	CL : Lean CLAY		5.0	57.9	12.8	24.3	26.3	1.94	1.54	2.69	95	43	0.747	36.2	20.4	15.8	0.37																	
Cl-U	34	Br-D-7	859	5.0 - 6.0	CH : Fat CLAY			4.0	52.9	9.7	33.4	68.7	1.57	0.93	2.70	98	66	1.903	60.6	21.4	39.2	1.21		0.241	6.3 x 10 ⁸	3'28"	0.065						0.557	~	1.378	0.62	0.04	1.25
Cl-U	35	Br-D-7	860	8.0 - 9.0	CH : Fat CLAY			2.0	51.8	12.7	33.5	65.7	1.57	0.95	2.69	97	65	1.832	60.7	28.7	32.0	1.16	8.0	0.189	1.4 x 10 ⁷			28'38"	0.041			0.928	~	1.160	0.74	0.08	1.04	
Cl	36	Br-D-7	861	18.0 - 19.0	CL : Lean CLAY			6.6	52.7	9.1	31.6	53.8	1.67	1.09	2.69	99	59	1.468	43.4	20.6	22.8	1.46	5.6	0.348	2.9 x 10 ⁸						0.799	~	0.997	0.41	0.05	1.04		
Cl-U	37	Br-D-8	806	3.0 - 3.5	CL : Sandy CLAY			41.0	30.1	8.0	20.9	42.0	1.61	1.13	2.70	82	58	1.389	36.7	20.8	15.9	1.33		0.519	7.6 x 10 ⁶						0.72	~	1.14	0.55	0.06	0.87		
Cl-U	38	Br-D-8	807	10.5 - 11.5	CH : Fat CLAY with SAND		1.2	24.6	40.7	11.6	21.9	55.4	1.62	1.04	2.70	94	61	1.596	51.2	25.6	25.6	1.16		0.303	2.3 x 10 ⁶			17'32"	0.260			0.595	~	0.912	0.51	0.04	0.85	
Cl	39	Br-D-8	808	19.0 - 20.0	CH : Fat CLAY			2.6	42.1	26.6	28.7	54.4	1.65	1.07	2.69	97	60	1.514	55.8	28.1	27.7	0.95		0.429						0.945	~	1.560	0.82	0.06	1.33			
Cl-U	40	Br-D-9	869	2.0 - 3.0	SC-SM : Silty Clayey SAND			76.5	15.8	3.1	4.6	48.1	1.65	1.11	2.68	91	59	1.414	33.1	19.7	13.4	2.12	5.0							1.387	~	1.643	0.17	0.01	0.83			
Cl-U	41	Br-D-9	870	9.0 - 10.0	CL : Lean CLAY with SAND			27.0	37.4	8.6	27.0	57.6	1.60	1.02	2.69	95	62	1.637	39.5	20.1	19.4	1.93	6.2		3.5 x 10 ⁸	5'32"	0.097					0.833	~	1.245	0.45	0.05	1.17	
Cl	42	Br-D-9	871	17.0 - 18.0	CH : Fat CLAY			10.0	54.3	8.7	27.0	39.0			2.69	100		52.3	25.1	27.2	0.51	4.5	0.398				21'45"	0.280			0.369	~	0.781	0.81	0.07	1.30		
Sl/C-1	43	Br-D-9	877	65.0 - 66.0	CL : Lean CLAY with SAND			18.0	54.3	7.6	20.1	22.7	2.05	1.67	2.70	99	38	0.617	25.5	16.5	9.0	0.69		0.339						1.14	~	2.11	0.07	0.01	1.54			

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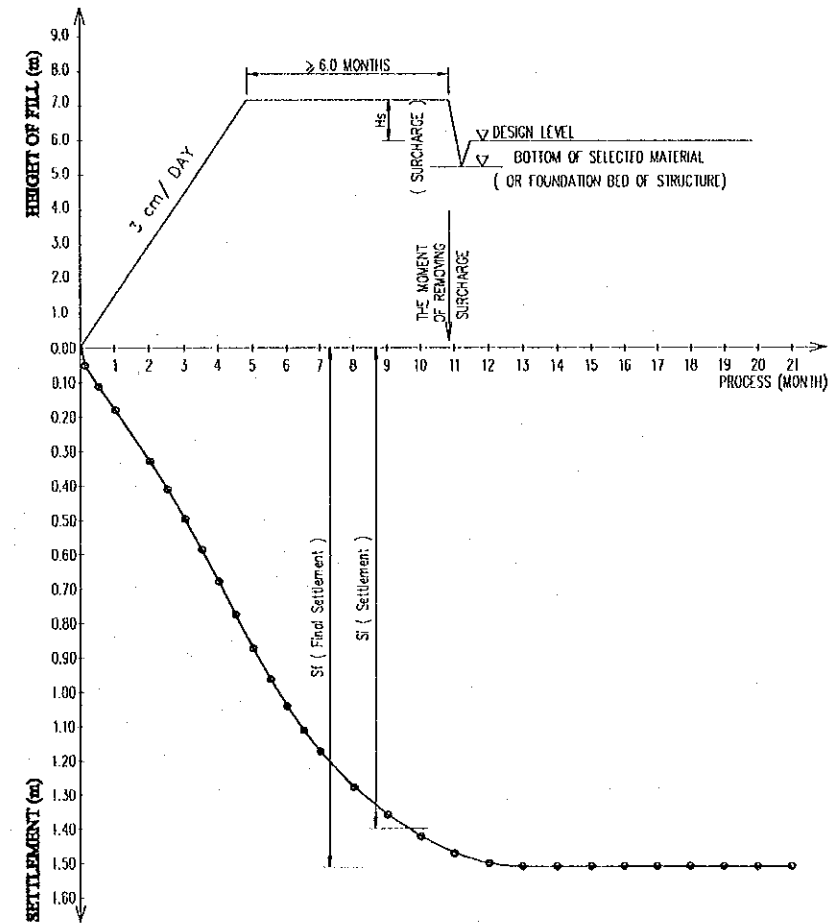
TYPICAL SECTIONS

NOT TO SCALE
H ≥ 5m



HEIGHT OF EMBANKMENT, m (H)	HEIGHT OF SURCHARGE, m (Hs)	COUNTERWEIGHT BERM WIDTH, m (B)	SPACING BETWEEN PVDs, m (D)
<3	0	-	-
3-4	1.0	-	1.0
4-5	1.5	-	1.0
5-6	2.0	10.0	1.0/1.5
6-7	2.0	12.0	1.0/1.5
7-8	2.0	12.0	1.0/1.5

STAGE CONSTRUCTION PROGRAM

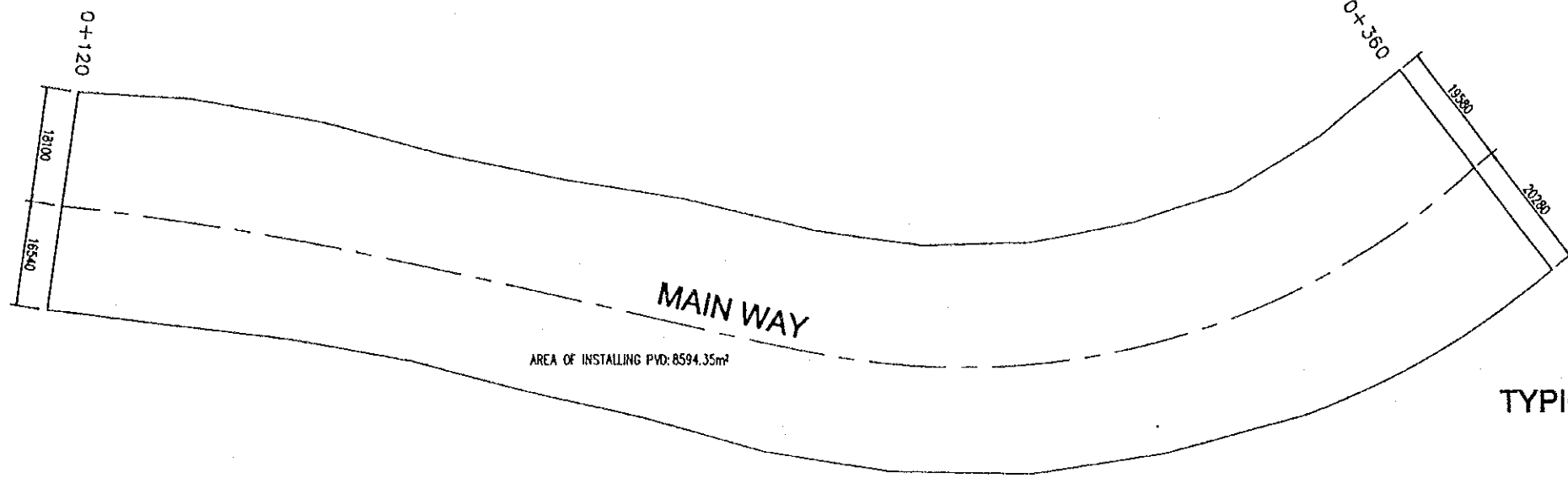


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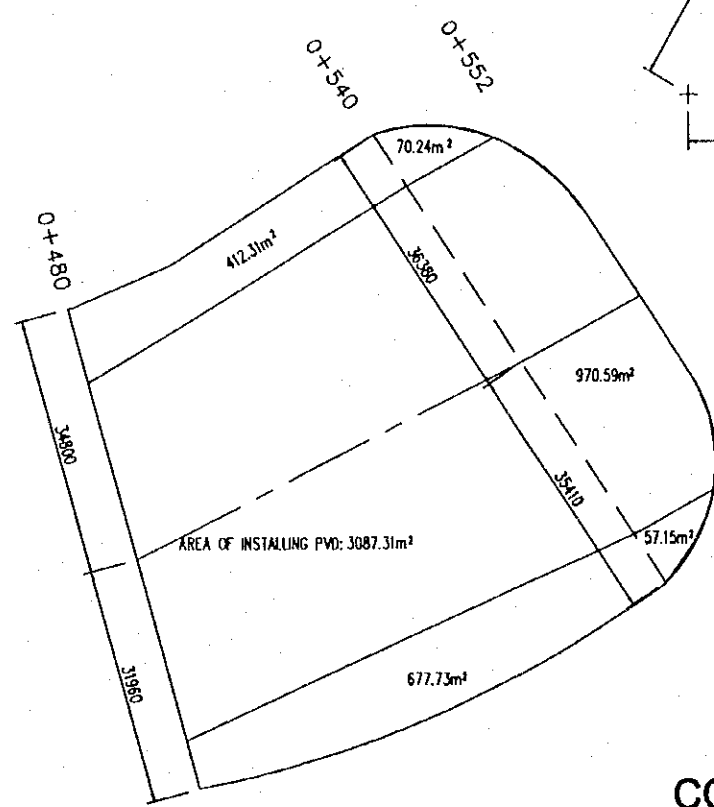
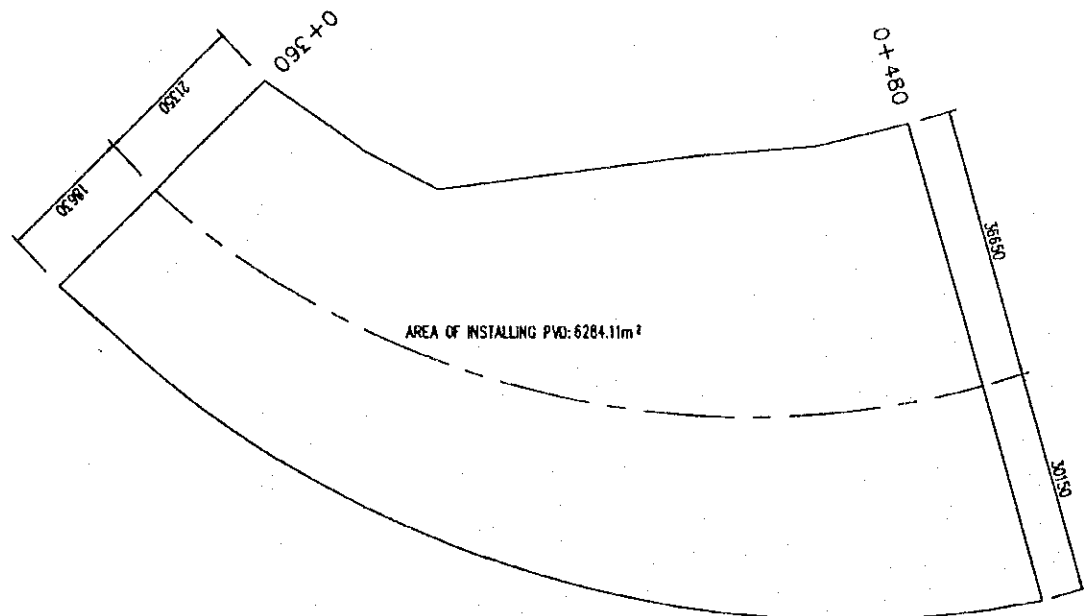
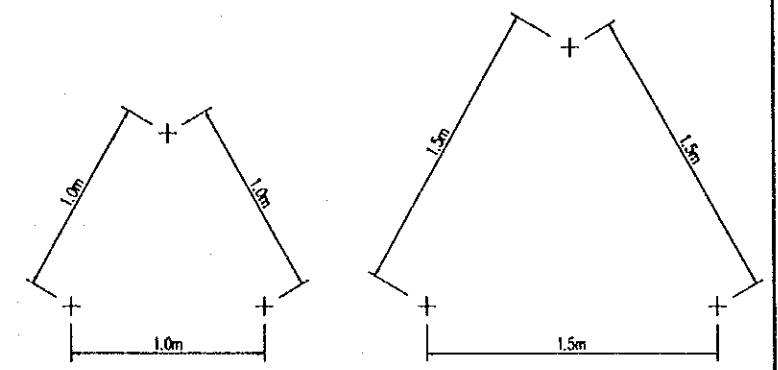
$S_1 / S_2 > 0.9$ OR $\Delta S \leq 10$ cm

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: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	TYPICAL CROSS SECTIONS AND STAGE CONSTRUCTION PROGRAM	P1/SGT/0100

D:\DUONG VAN SANG.TEDI SOUTH\Can Tho bridge Project\from Nemoto\p1\soft-ground\p1-SGT-0110...0150.dwg Sat Jun 03 15:27:36 2000



TYPICAL ARRANGEMENT OF PVD



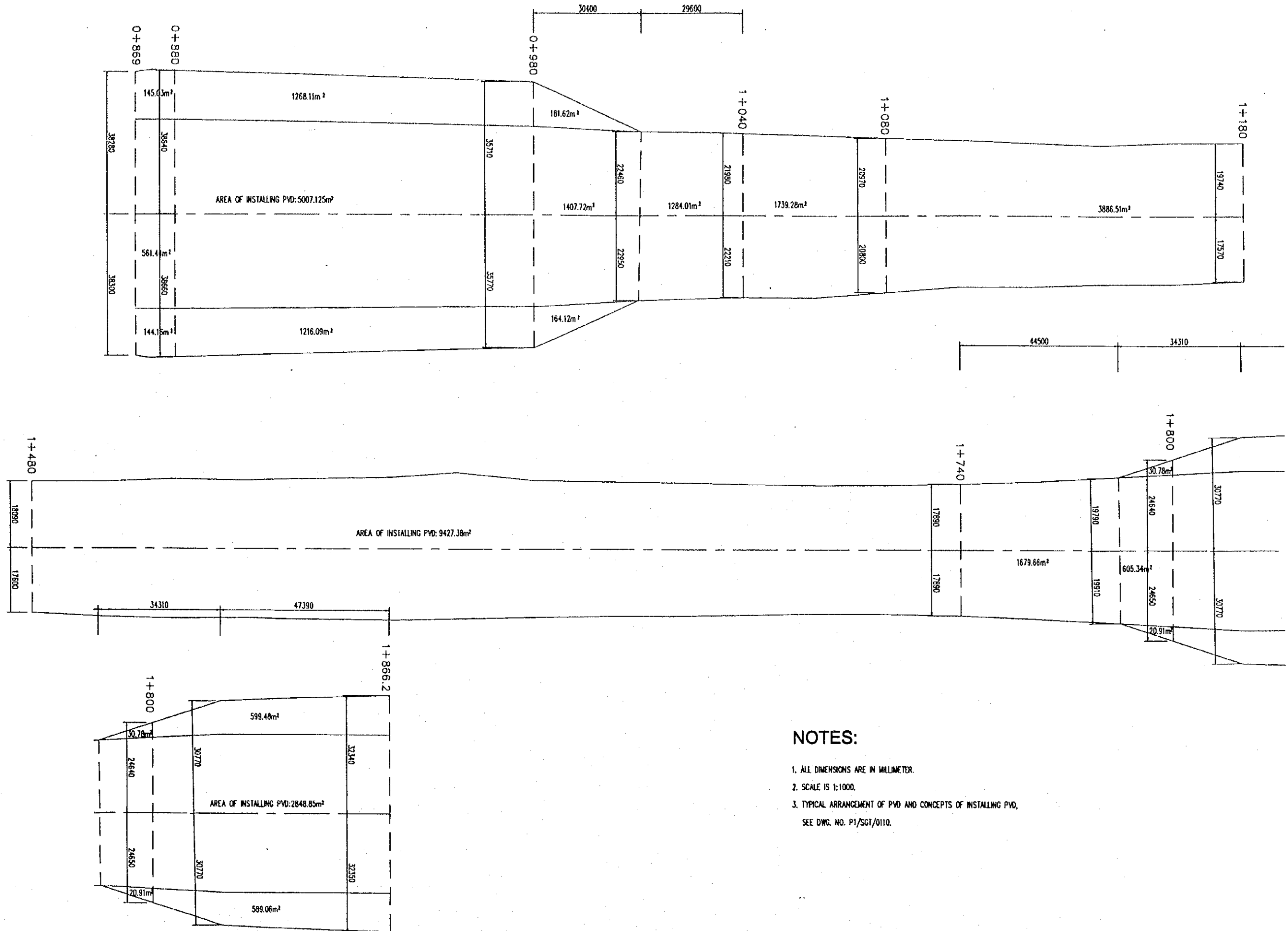
CONCEPTS OF INSTALLING PVD

No.	CHAINAGE	PVD LENGTH (m)	PVD SPACING (m)	
			UNDER EMBANKMENT	UNDER COUNTERWEIGHT BERM
1	KM-0+500 TO KM2+900	29.0	1.0	1.5
2	KM2+900 TO KM4+910	38.0	1.0	1.5

NOTES:



- ALL DIMENSIONS ARE IN MILLIMETER.
- SCALE IS 1:1000.

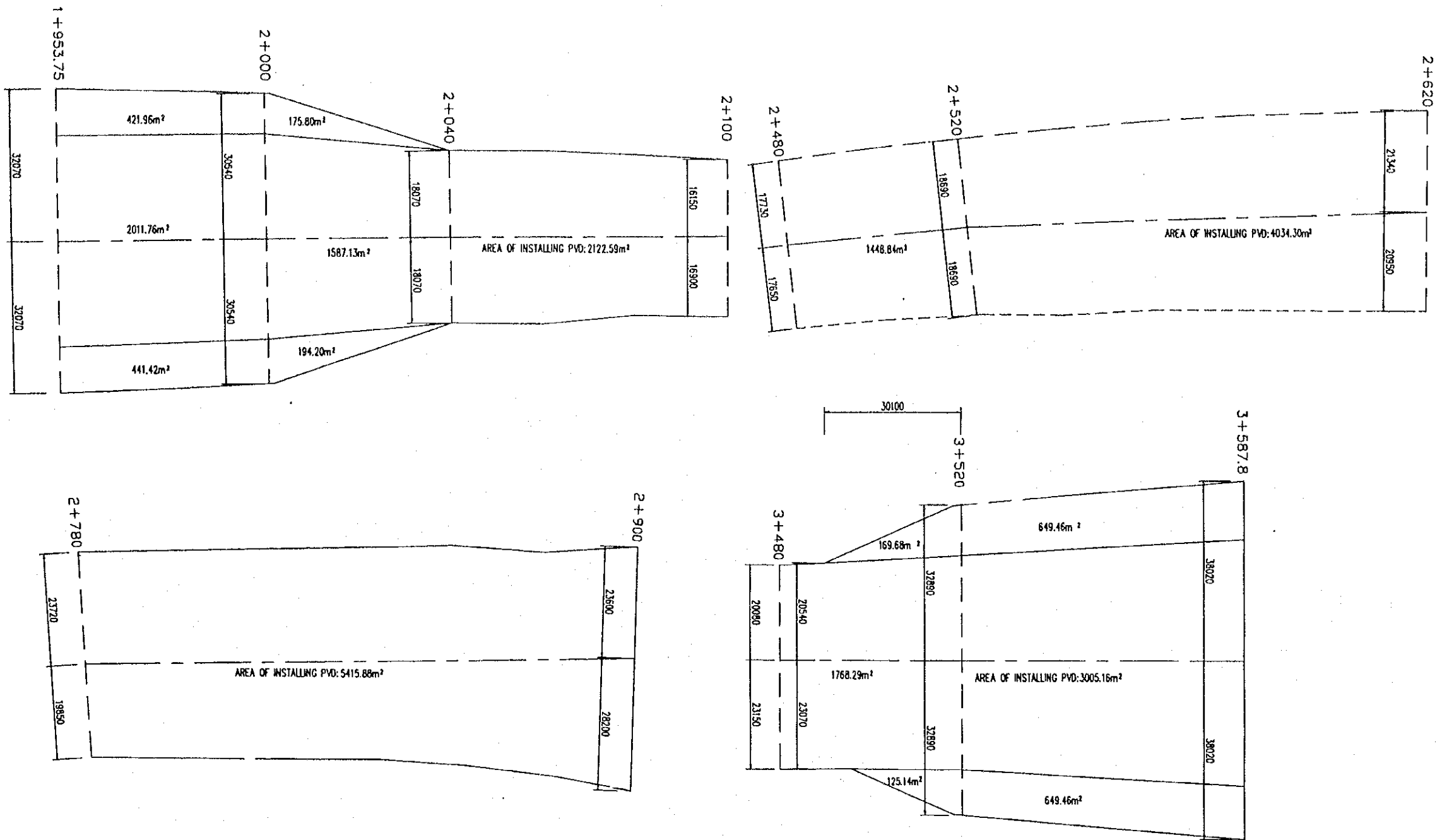
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	PLAN OF PVD (1/5)	P1/SGT/0110



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER.
2. SCALE IS 1:1000.
3. TYPICAL ARRANGEMENT OF PVD AND CONCEPTS OF INSTALLING PVD, SEE DWG. NO. P1/SG1/0110.

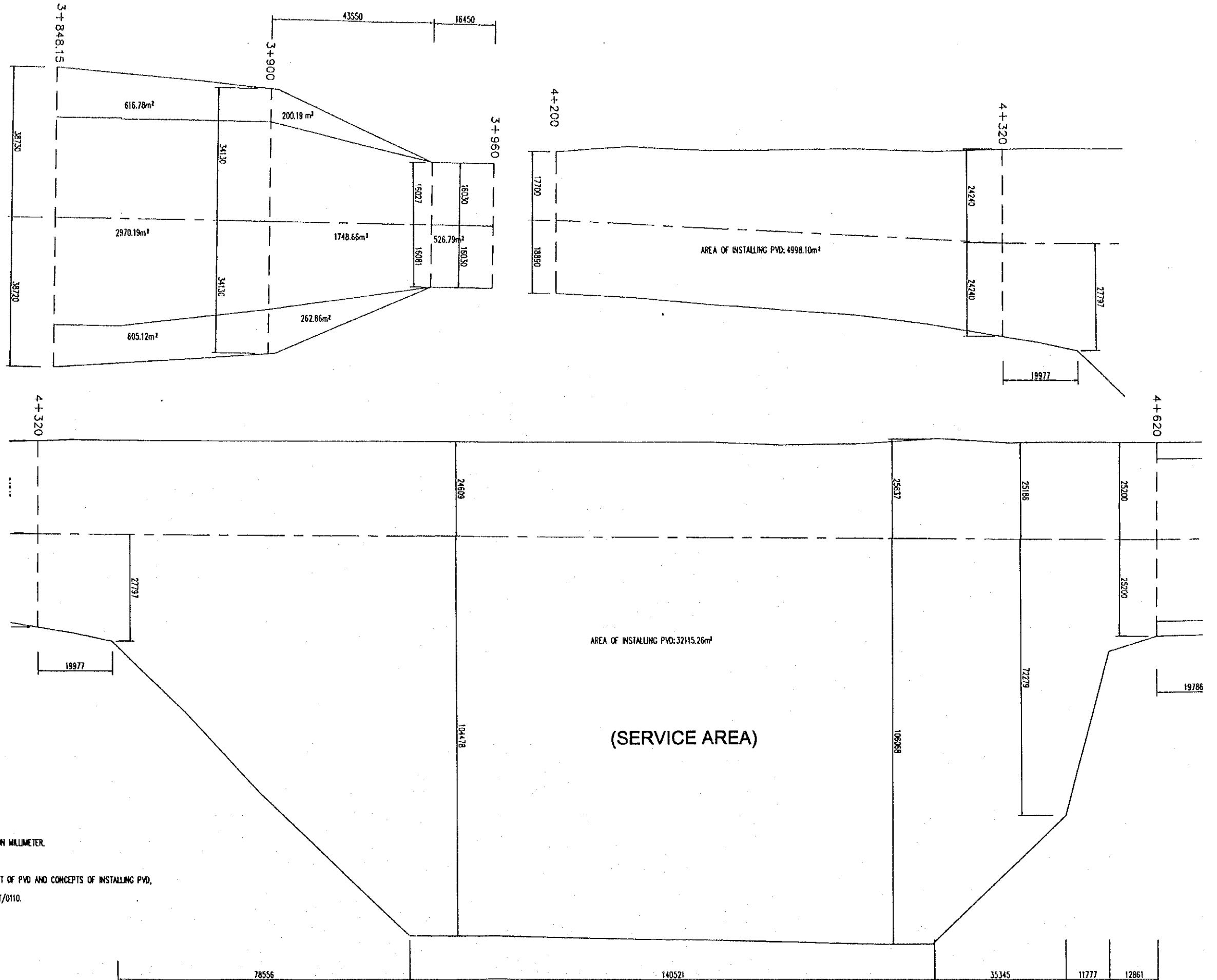
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	 NIPPON KOEI CO.,LTD.	NAME	K. Nemoto	K. Nakai	PLAN OF PVD (2/5)	P1/SGT/0120
				SIGNATURE	<i>K. Nemoto</i>	<i>K. Nakai</i>		
				DATE	20/9/2000	29/9/2000		



NOTES:



1. ALL DIMENSIONS ARE IN MILLIMETER.
2. SCALE IS 1:1000.
3. TYPICAL ARRANGEMENT OF PVD AND CONCEPTS OF INSTALLING PVD, SEE DWG. NO. P1/SGT/0110.

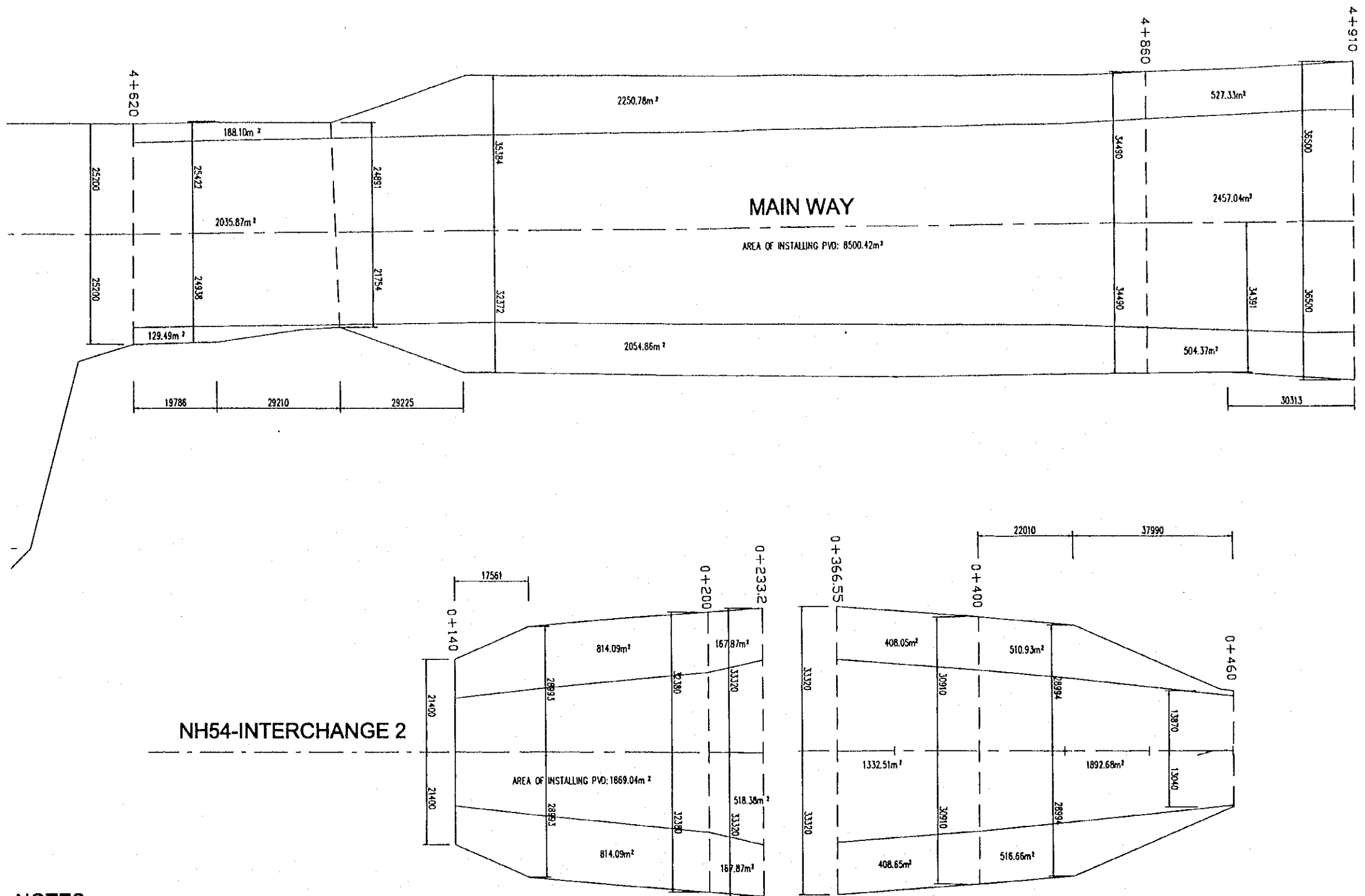
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	PLAN OF PVD (3/5)	P1/SGT/0130



NOTES:



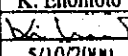
1. ALL DIMENSIONS ARE IN MILLIMETER.
2. SCALE IS 1:1000.
3. TYPICAL ARRANGEMENT OF PVD AND CONCEPTS OF INSTALLING PVD,
SEE DWG. NO. P1/SGT/0110.

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: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	PLAN OF PVD (4/5)	P1/SGT/0140



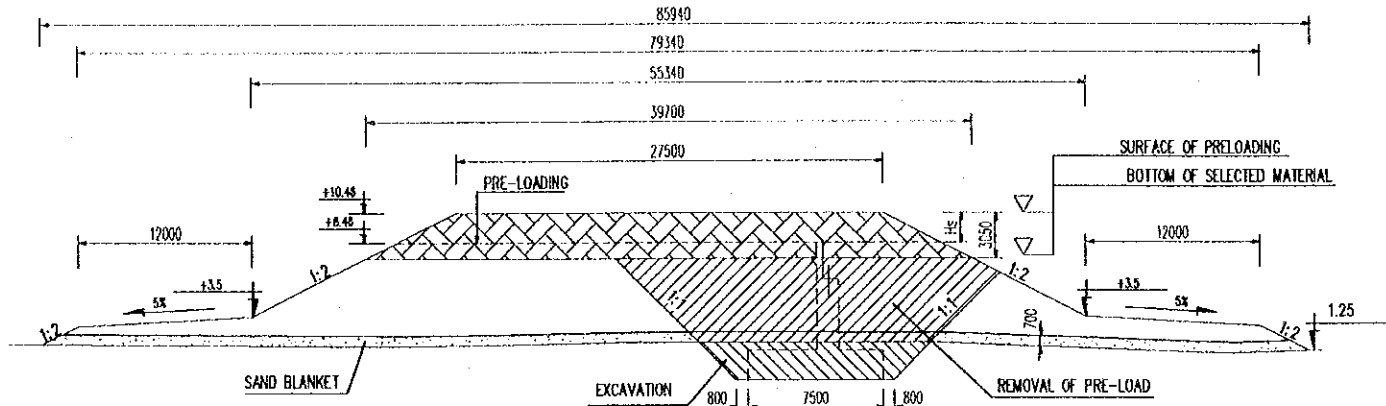
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER.
2. SCALE IS 1:1000.
3. TYPICAL ARRANGEMENT OF PVD AND CONCEPTS OF INSTALLING PVD, SEE DWG. NO. P1/SGT/0110.

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	K. Nemoto	K. Nakai	PLAN OF PVD (5/5)	P1/SGT/0150
				SIGNATURE	<i>K. Nemoto</i>	<i>K. Nakai</i>		
				DATE	20/9/2000	24/9/2000		
				APPROVED BY	 K. Enomoto			

LONGITUDINAL SECTION B-B

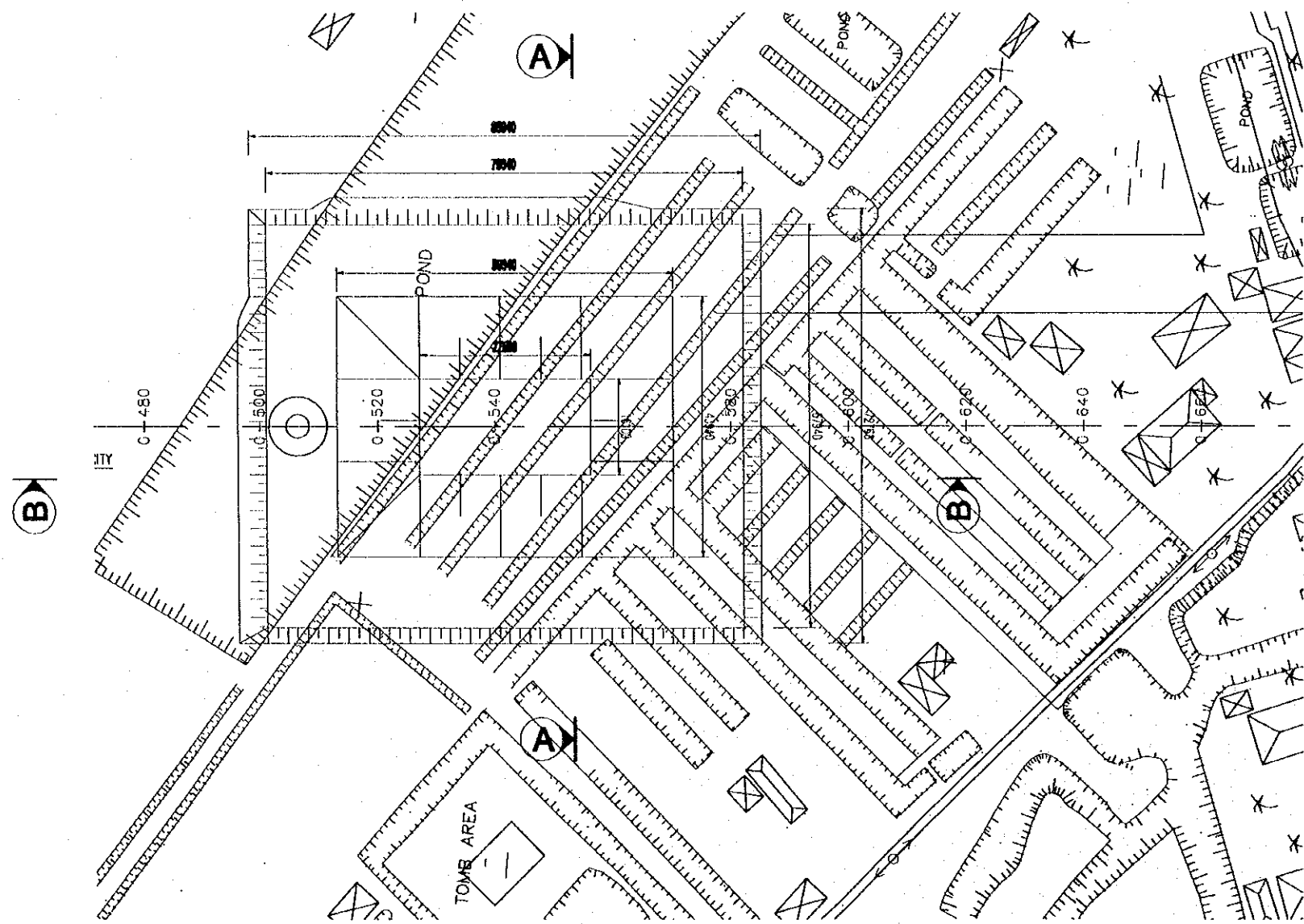
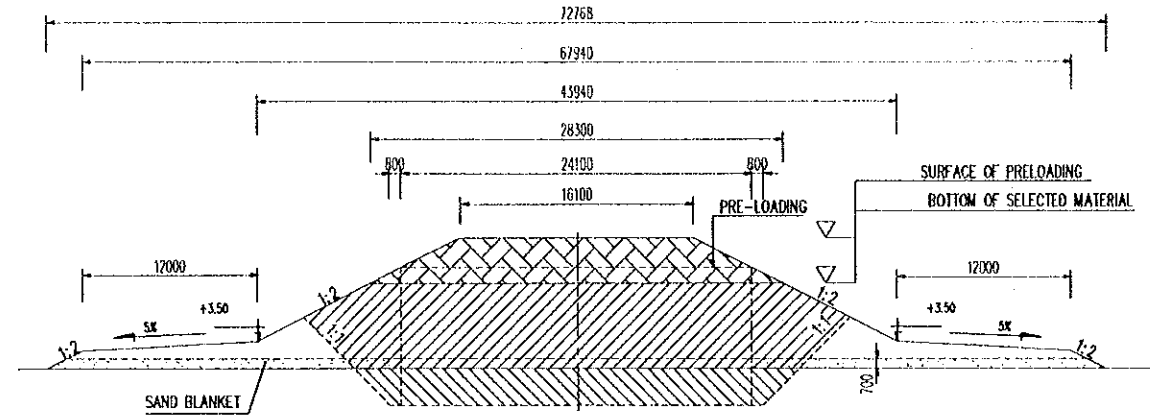
SCALE 1:500



PLAN
SCALE 1:1000

CROSS SECTION A-A

SCALE 1:500



LEGEND

- PRE-LOADING
- REMOVAL OF PRE-LOAD
- EXCAVATION

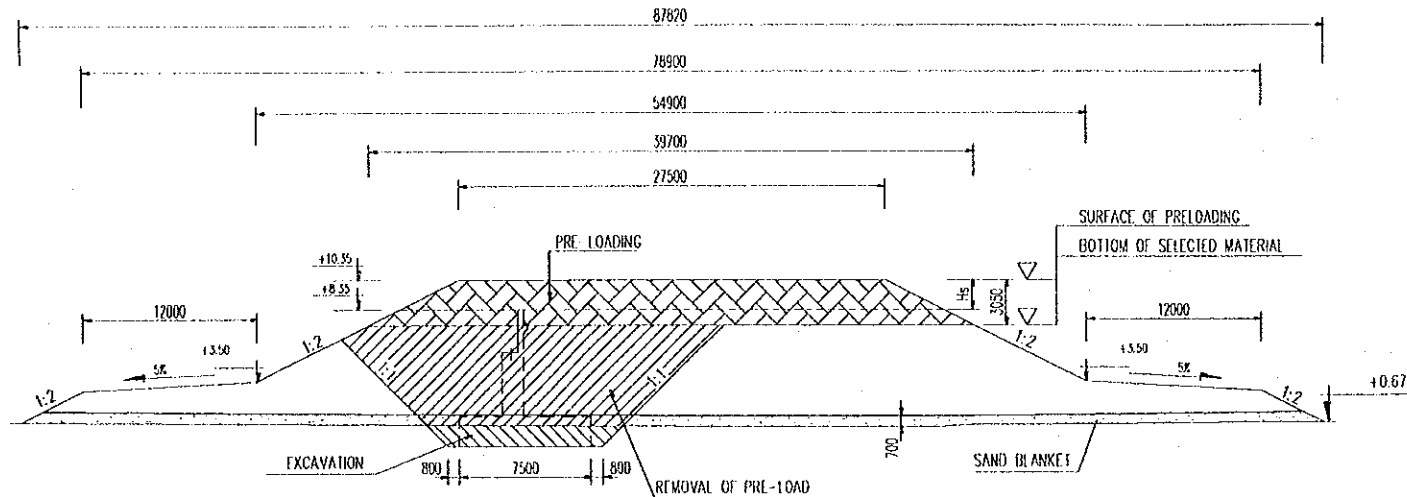
NOTE

ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE INDICATED.

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: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	LARGE TRA VA BRIDGE PRELOADING AT ABUTMENT "A1"	F1/SGT/0160

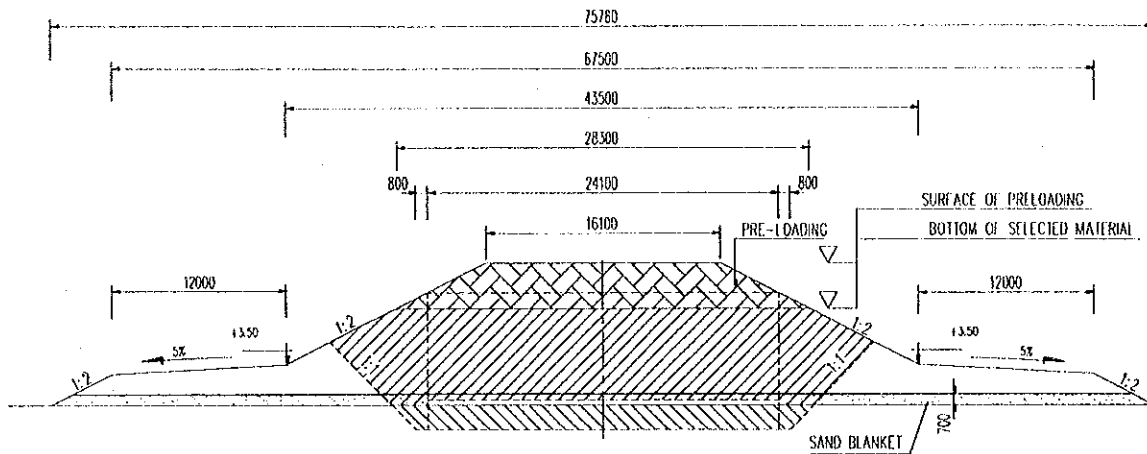
LONGITUDINAL SECTION B-B

SCALE 1:500



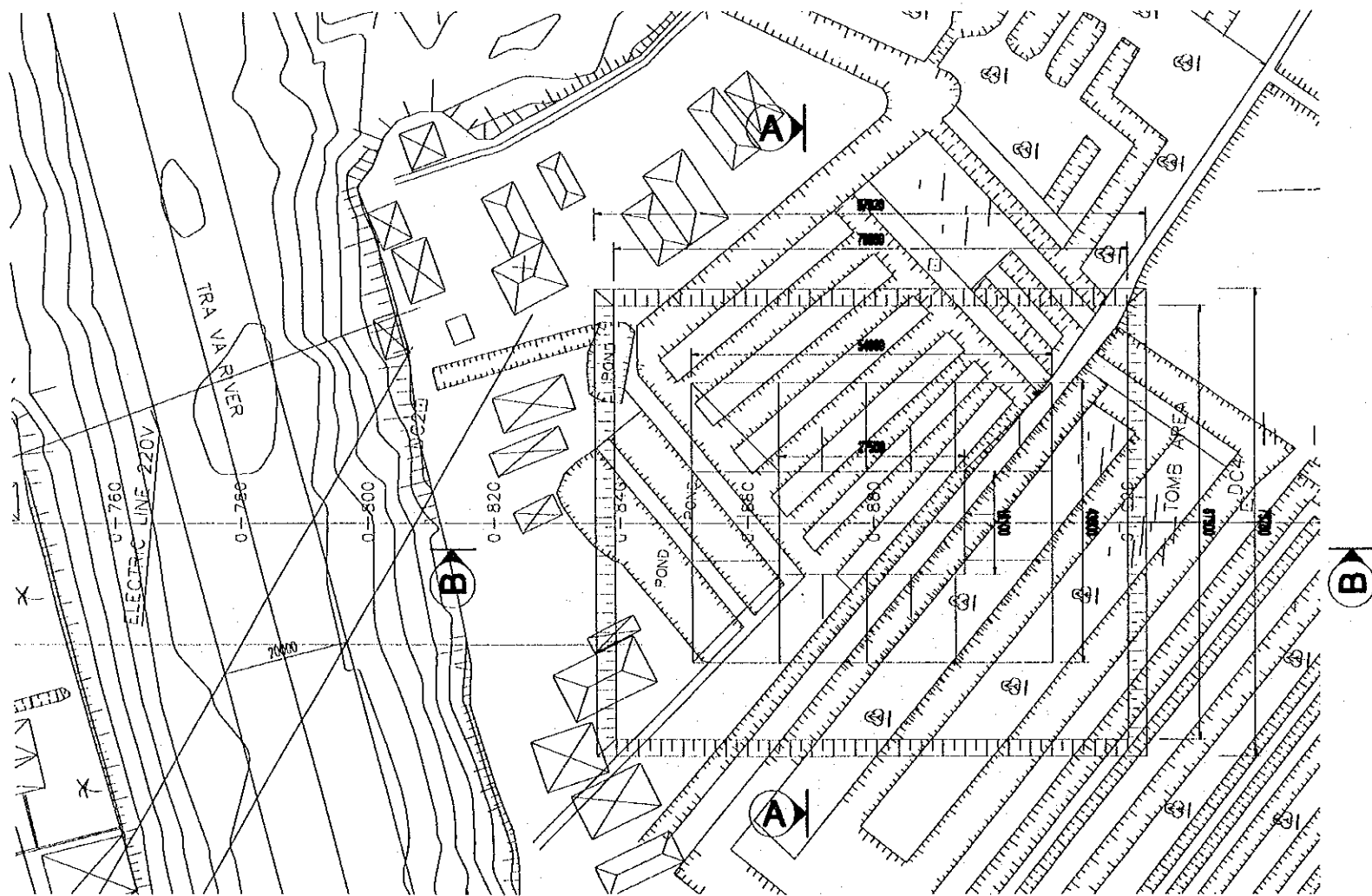
CROSS SECTION A-A

SCALE 1:500






PLAN

SCALE 1:1000





LEGEND

-  PRE-LOADING
-  REMOVAL OF PRE-LOAD
-  EXCAVATION

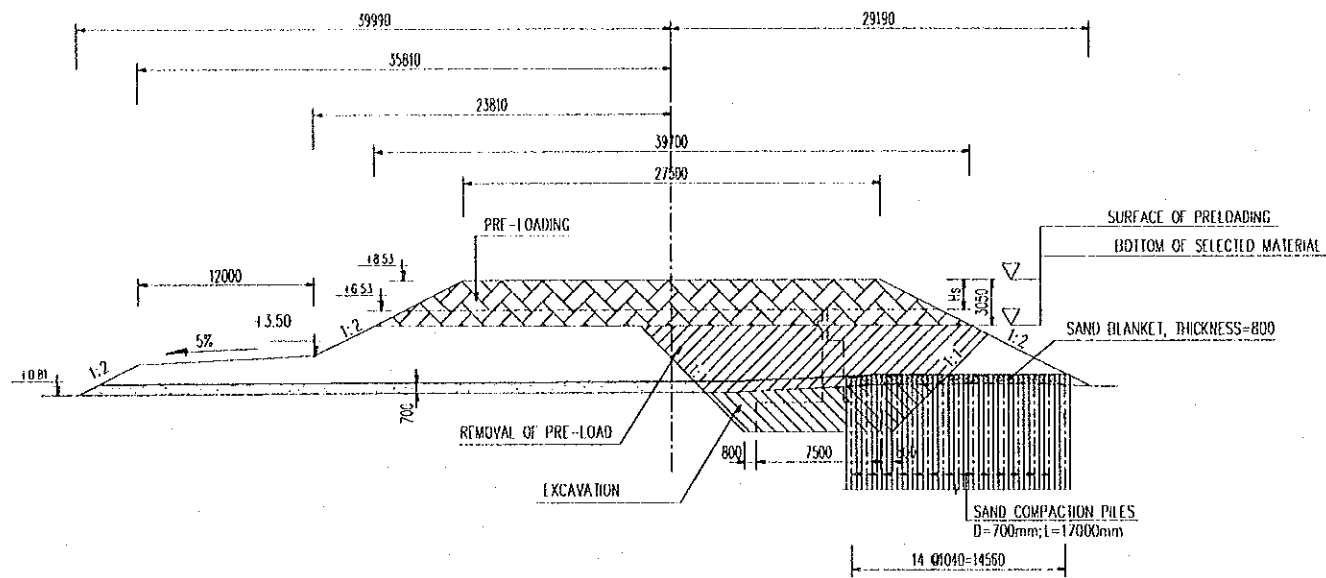
NOTE

ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE INDICATED.

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 K. Nemoto SIGNATURE <i>K. Nemoto</i> DATE 20/9/2000	NAME K. Nakai SIGNATURE <i>K. Nakai</i> DATE 24/9/2000	NAME K. Enomoto SIGNATURE <i>K. Enomoto</i> DATE 5/10/2000	LARGE TRAVA BRIDGE PRELOADING AT ABUTMENT "A2"	P1/SGT/0170

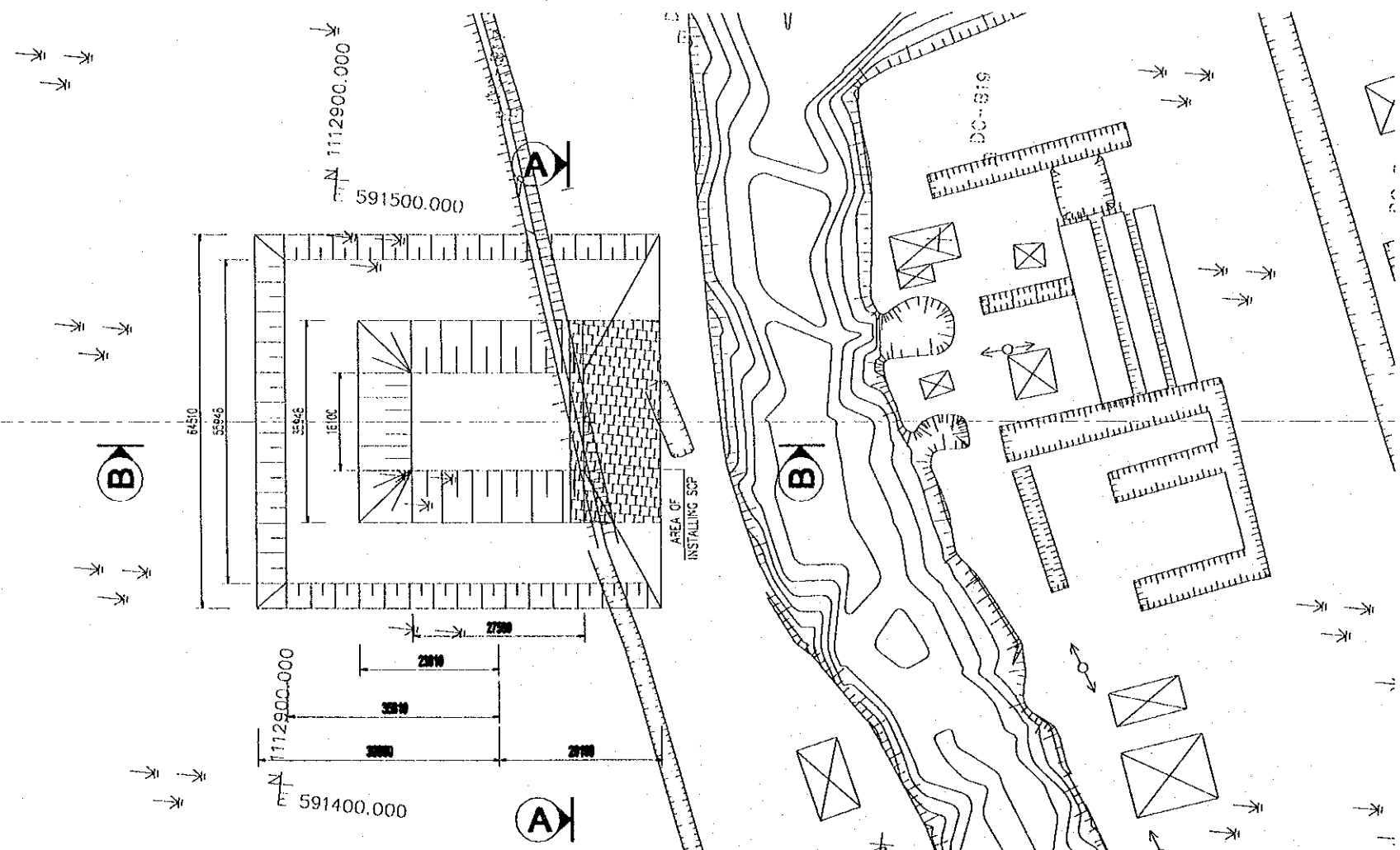
LONGITUDINAL SECTION B-B

SCALE 1:500



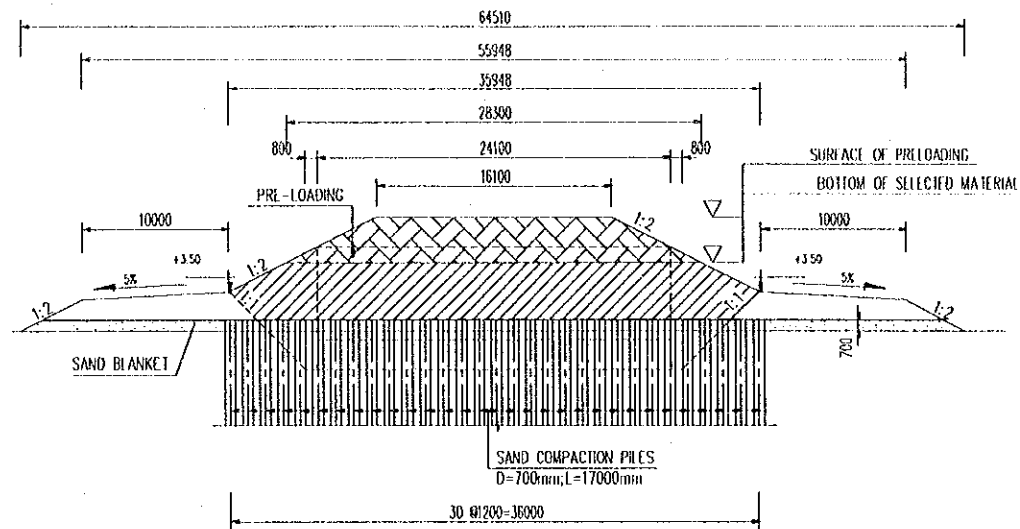
PLAN

SCALE 1:1000



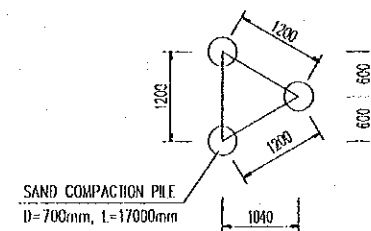
CROSS SECTION A-A

SCALE 1:500


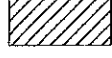
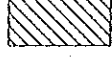



LAYOUT OF SCP

SCALE 1:10



LEGEND

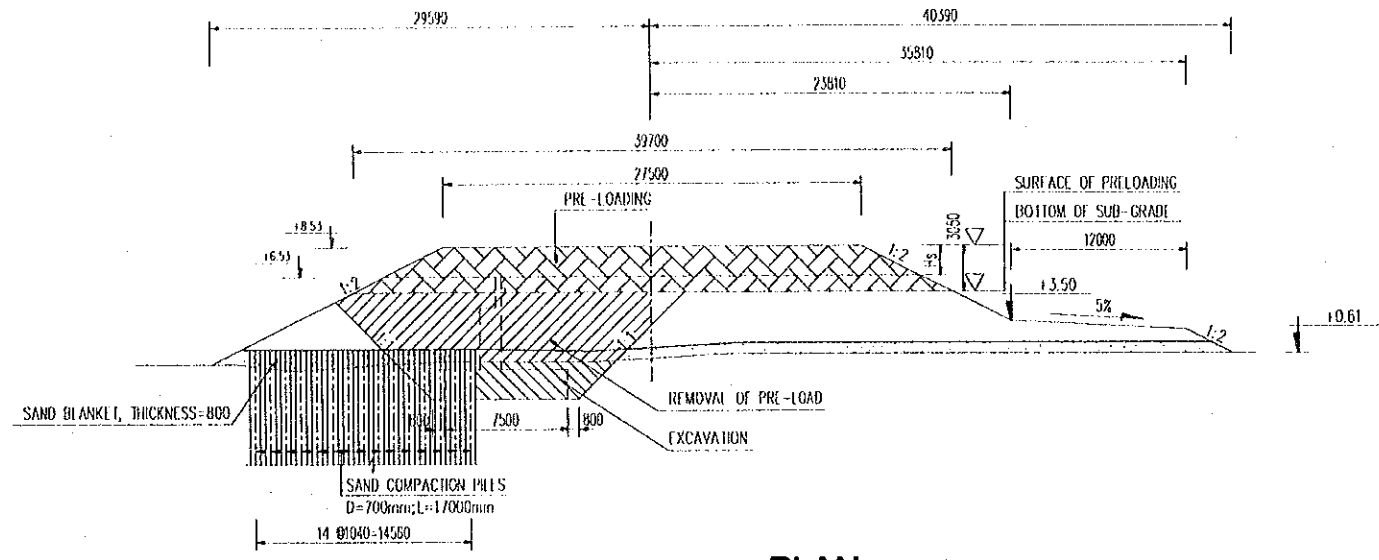
-  PRE-LOADING
-  REMOVAL OF PRE-LOAD
-  EXCAVATION
-  AREA TO INSTALL SAND COMPACTION PILE

NOTE

ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE INDICATED.

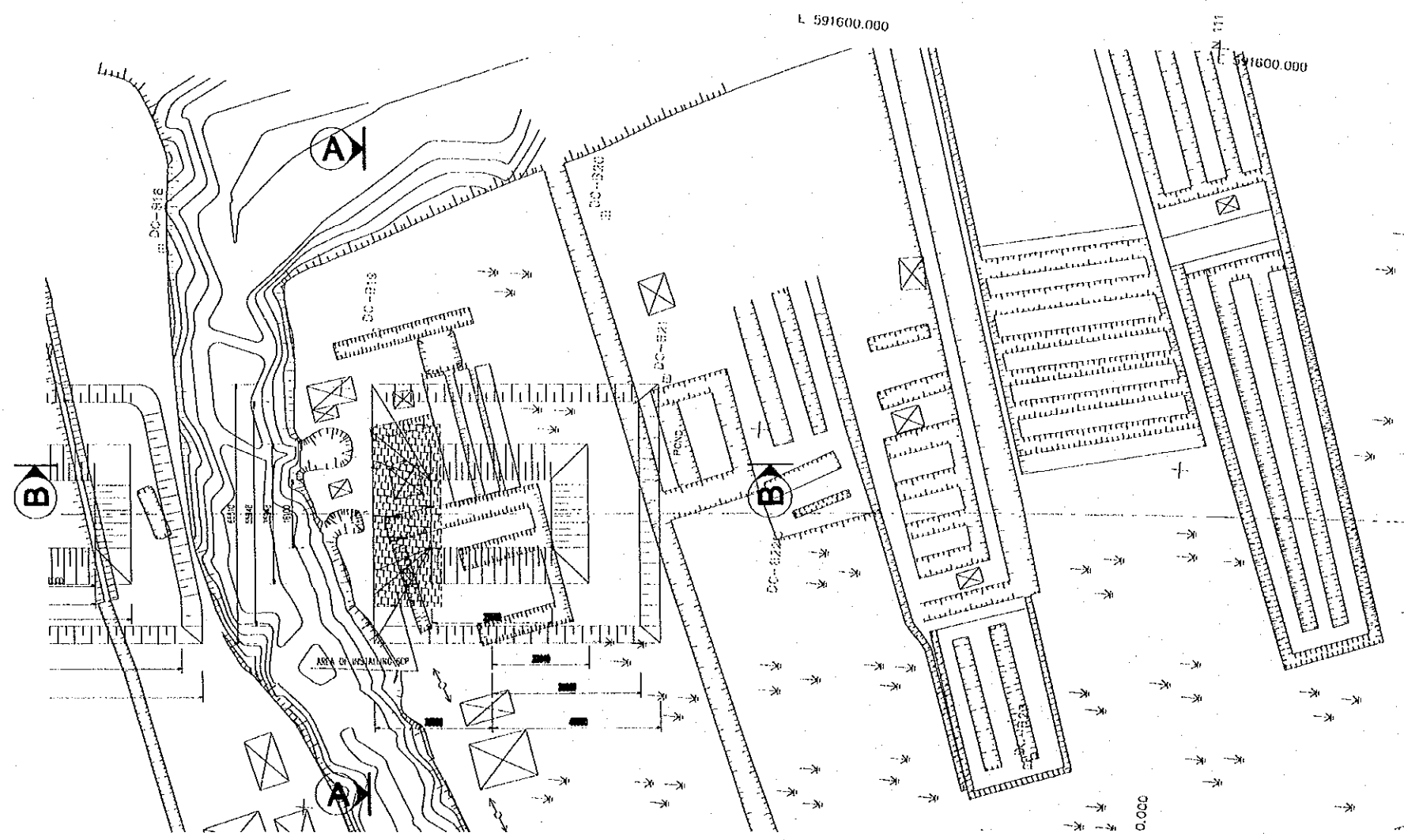
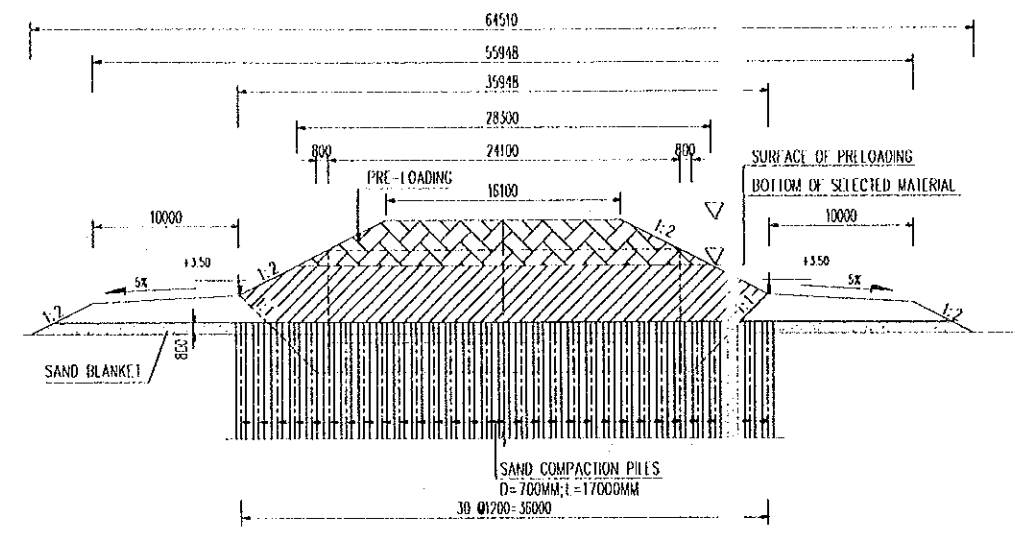
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NK NIPPON KOEI CO.,LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	SMALL TRA VA BRIDGE PRELOADING AT ABUTMENT "A1"	P1/SGT/0180

LONGITUDINAL SECTION B-B
SCALE 1:500

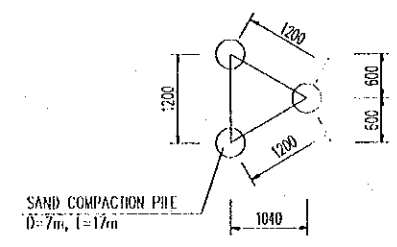


PLAN
SCALE 1:1000

CROSS SECTION A-A
SCALE 1:500



LAYOUT C = SCP
SCALE 1:100



LEGEND

- PRE-LOADING
- REMOVAL OF PRE-LOAD
- EXCAVATION
- AREA TO INSTALL SAND COMPACTION PILE

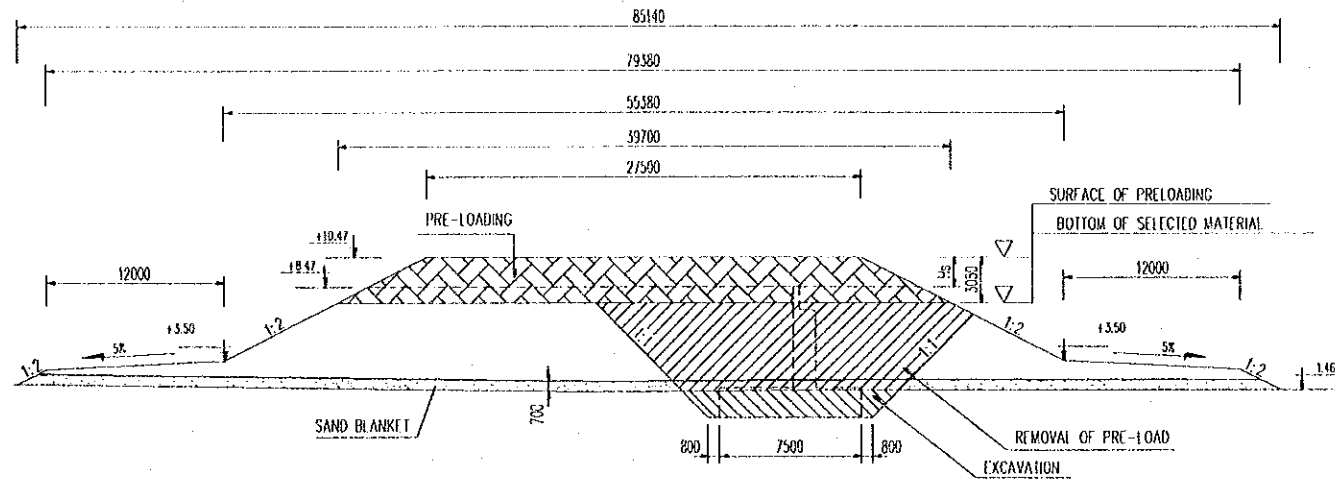
NOTI :

ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE INDICATED.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 24/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	SM ALL TRA VA BRIDGE PRELOADING AT ABUTMENT "A2"	P1/SGT/0190

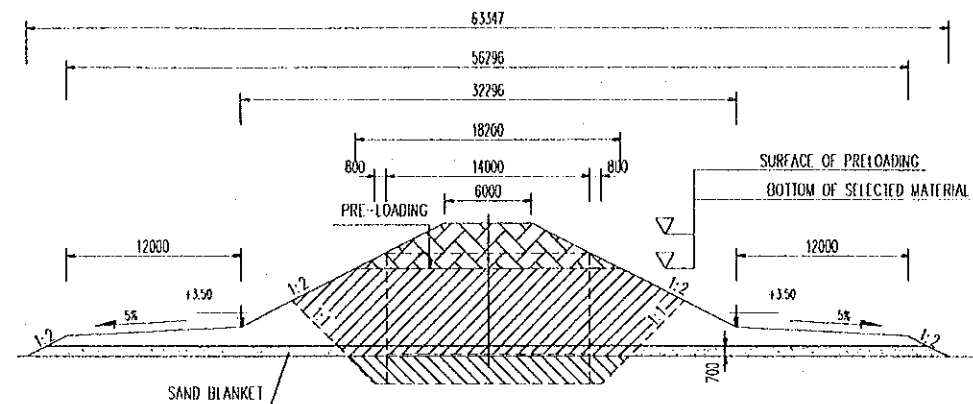
LONGITUDINAL SECTION B-B

SCALE 1:500



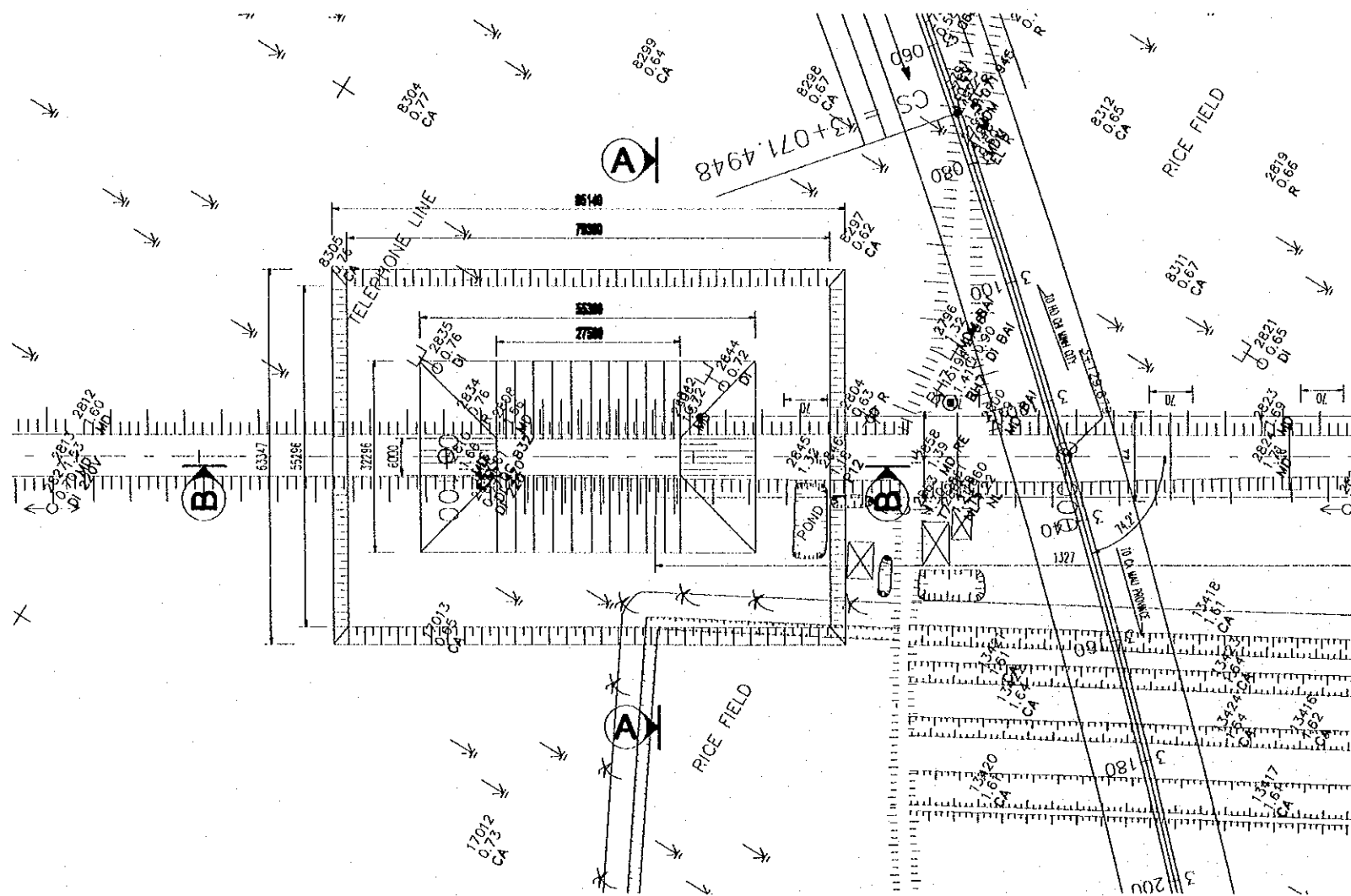
CROSS SECTION A-A

SCALE 1:500



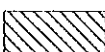


PLAN

SCALE 1:1000




LEGEND

-  PRE-LOADING
-  REMOVAL OF PRE-LOAD
-  EXCAVATION

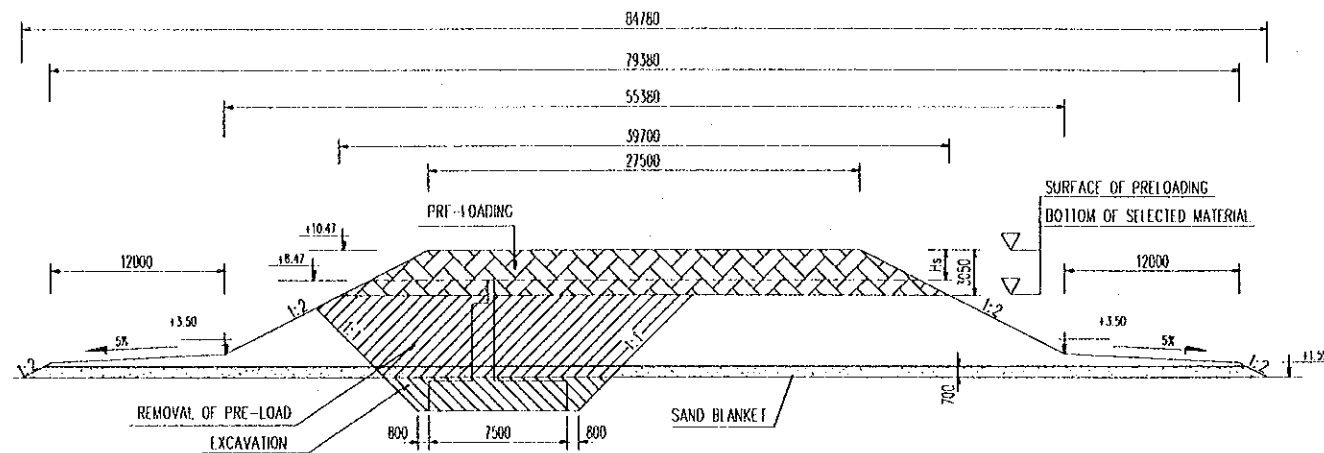
NOTE

ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE INDICATED.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	 NIPPON KOEI CO., LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	INTERCHANGE 2 FLYOVER BRIDGE PRELOADING AT ABUTMENT "A1"	P1/SGT/0200

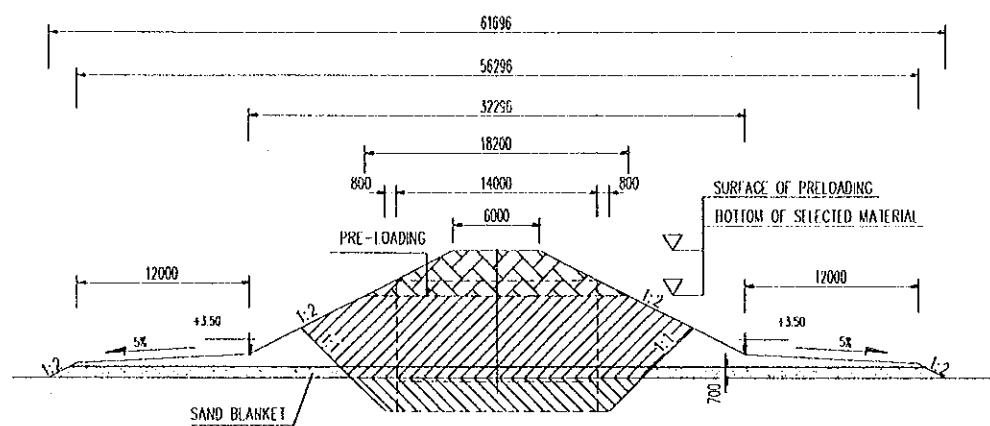
LONGITUDINAL SECTION B-B

SCALE 1:500



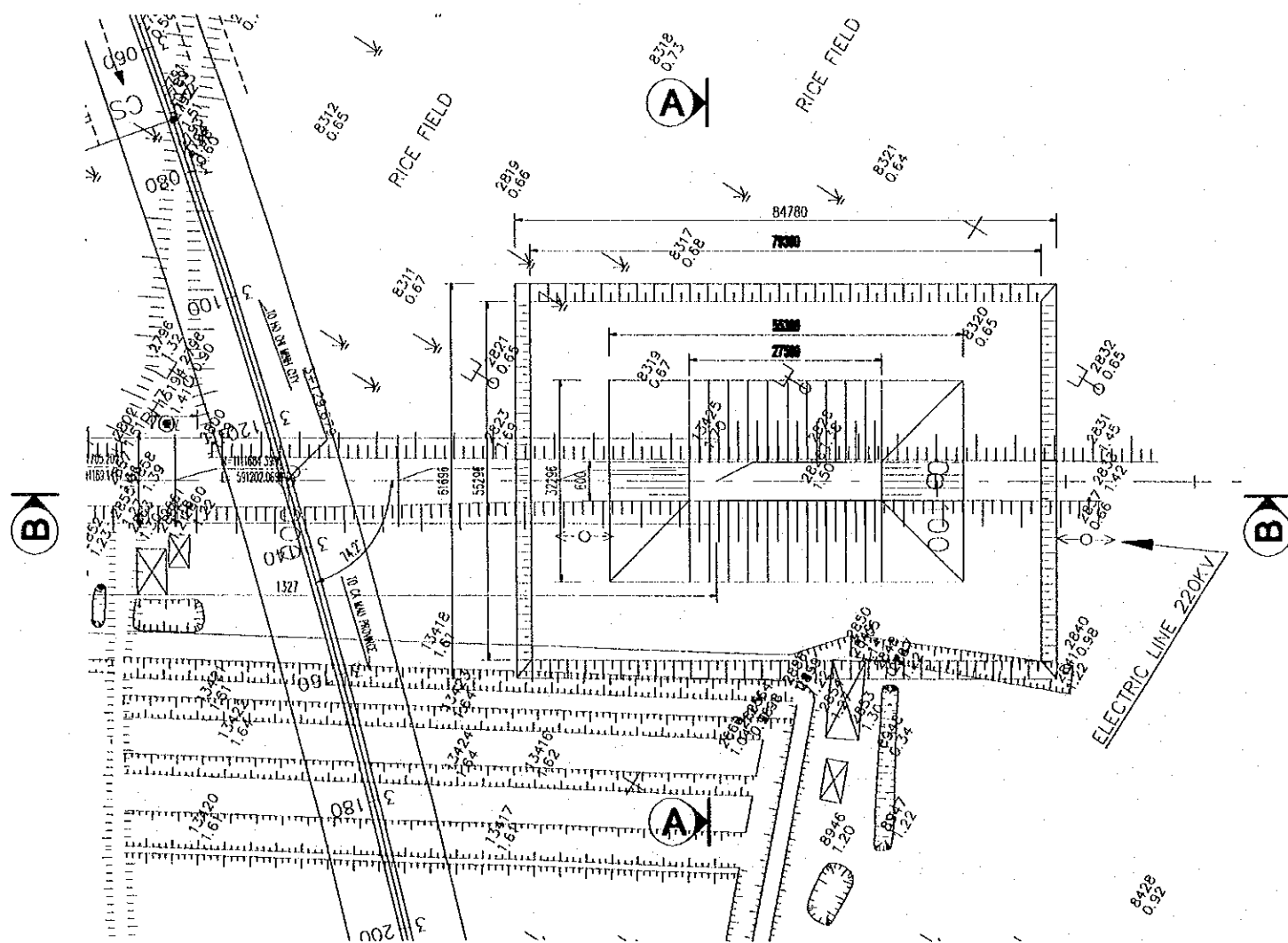
CROSS SECTION A-A

SCALE 1:500



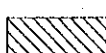


PLAN

SCALE 1:1000



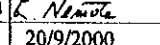

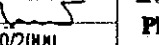


LEGEND

-  PRE-LOADING
-  REMOVAL OF PRE-LOAD
-  EXCAVATION

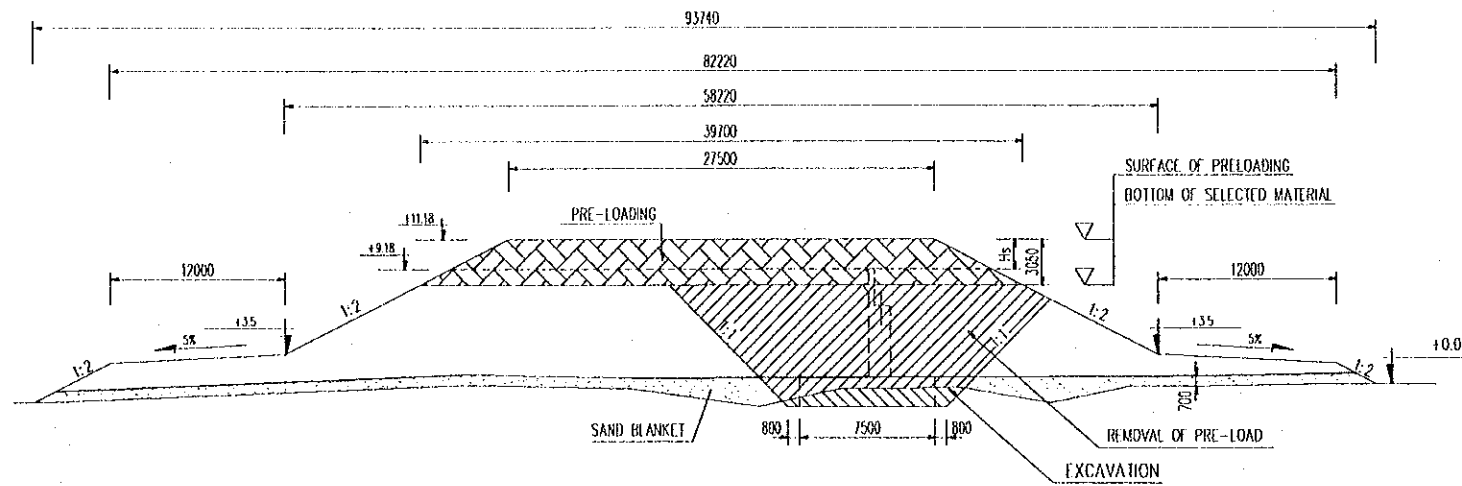
NOTE

ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE INDICATED.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	 NIPPON KORI CO.,LTD.	NAME: K. Nemoto SIGNATURE:  DATE: 20/9/2000	NAME: K. Nakai SIGNATURE:  DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE:  DATE: 5/10/2000	INTERCHANGE 2 FLYOVER BRIDGE PRELOADING AT ABUTMENT "A2"	P1/SGT/0210

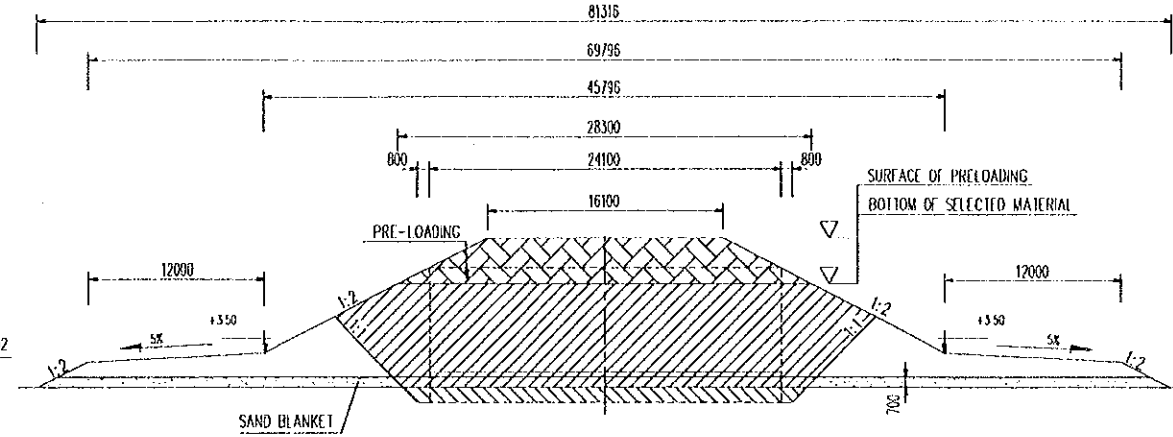
LONGITUDINAL SECTION B-B

SCALE 1:500



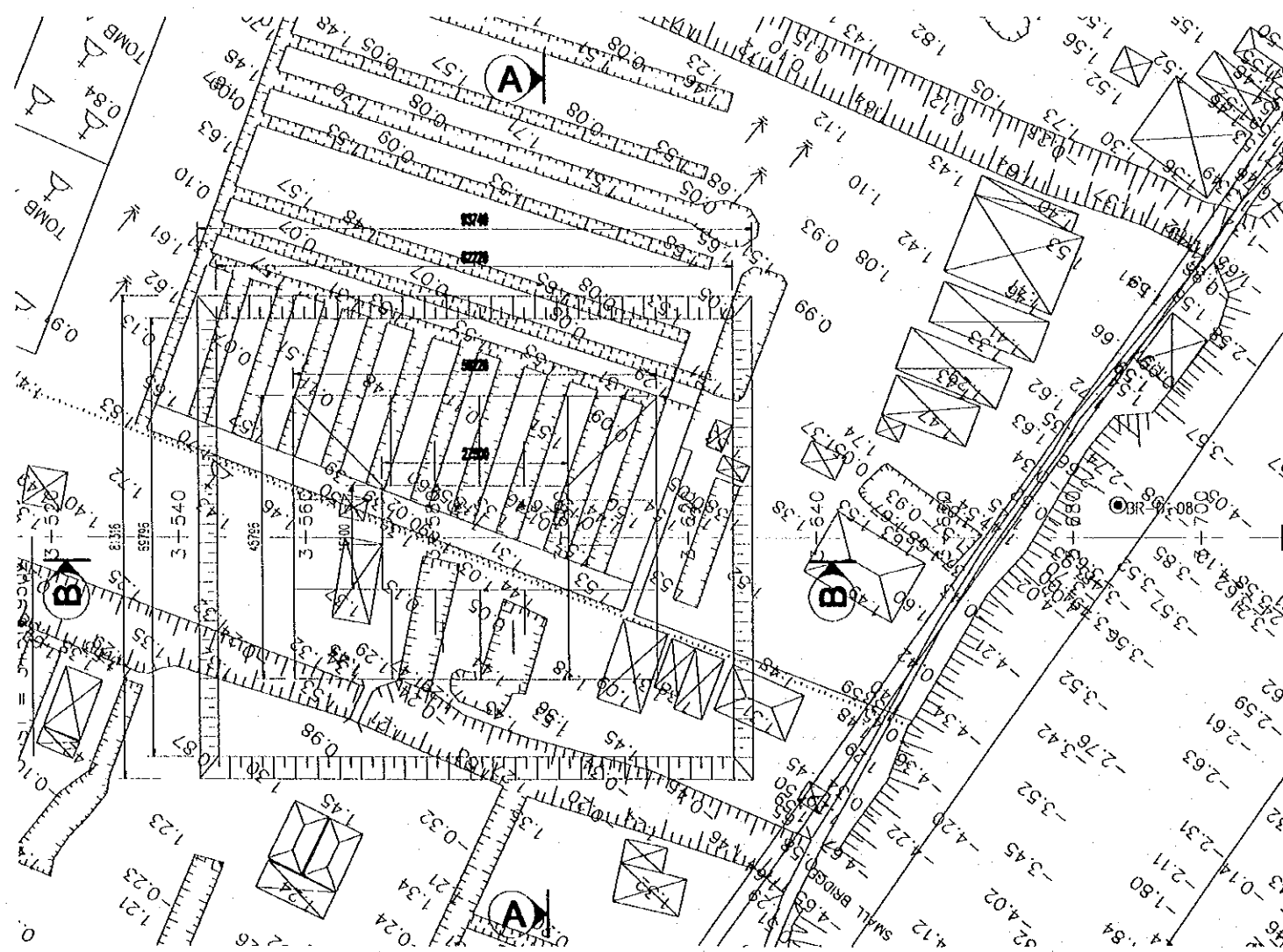
CROSS SECTION A-A

SCALE 1:300


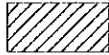



PLAN

SCALE 1:1000



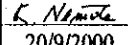
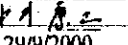
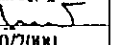


LEGEND

-  RE-LOADING
-  REMOVAL OF PRE-LOAD
-  EXCAVATION

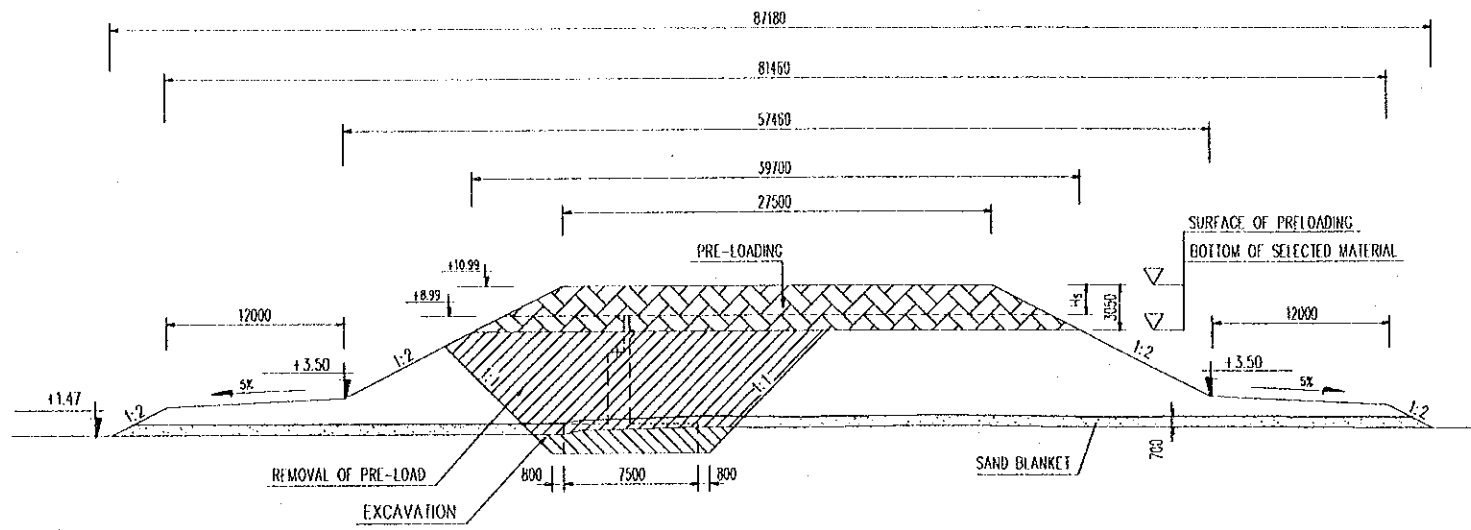
NOTE

ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE INDICATED.

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: K. Nemoto SIGNATURE:  DATE: 20/9/2000	NAME: K. Nakai SIGNATURE:  DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE:  DATE: 5/10/2000	TRA ON BRIDGE PRELOADING AT ABUTMENT "A1"	P1/SGT/0220

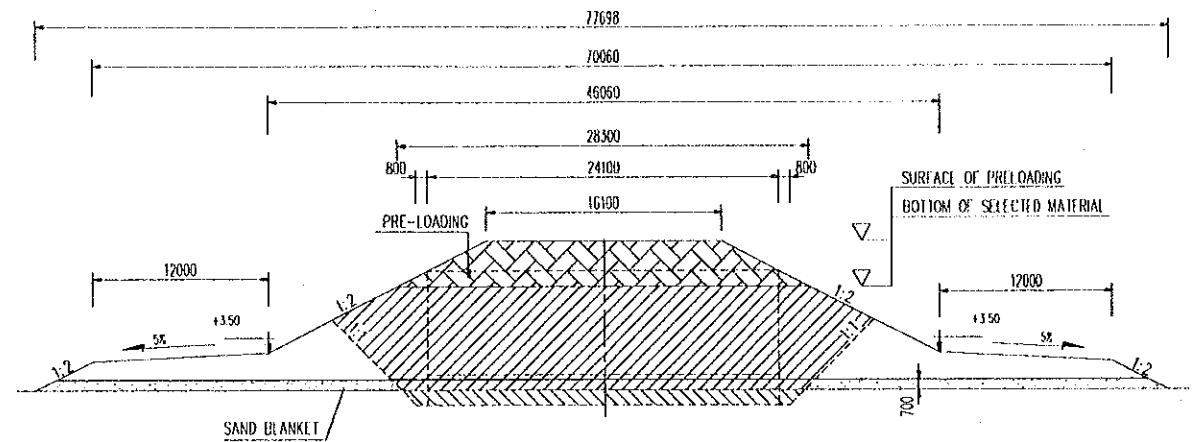
LONGITUDINAL SECTION B-B

SCALE 1:500



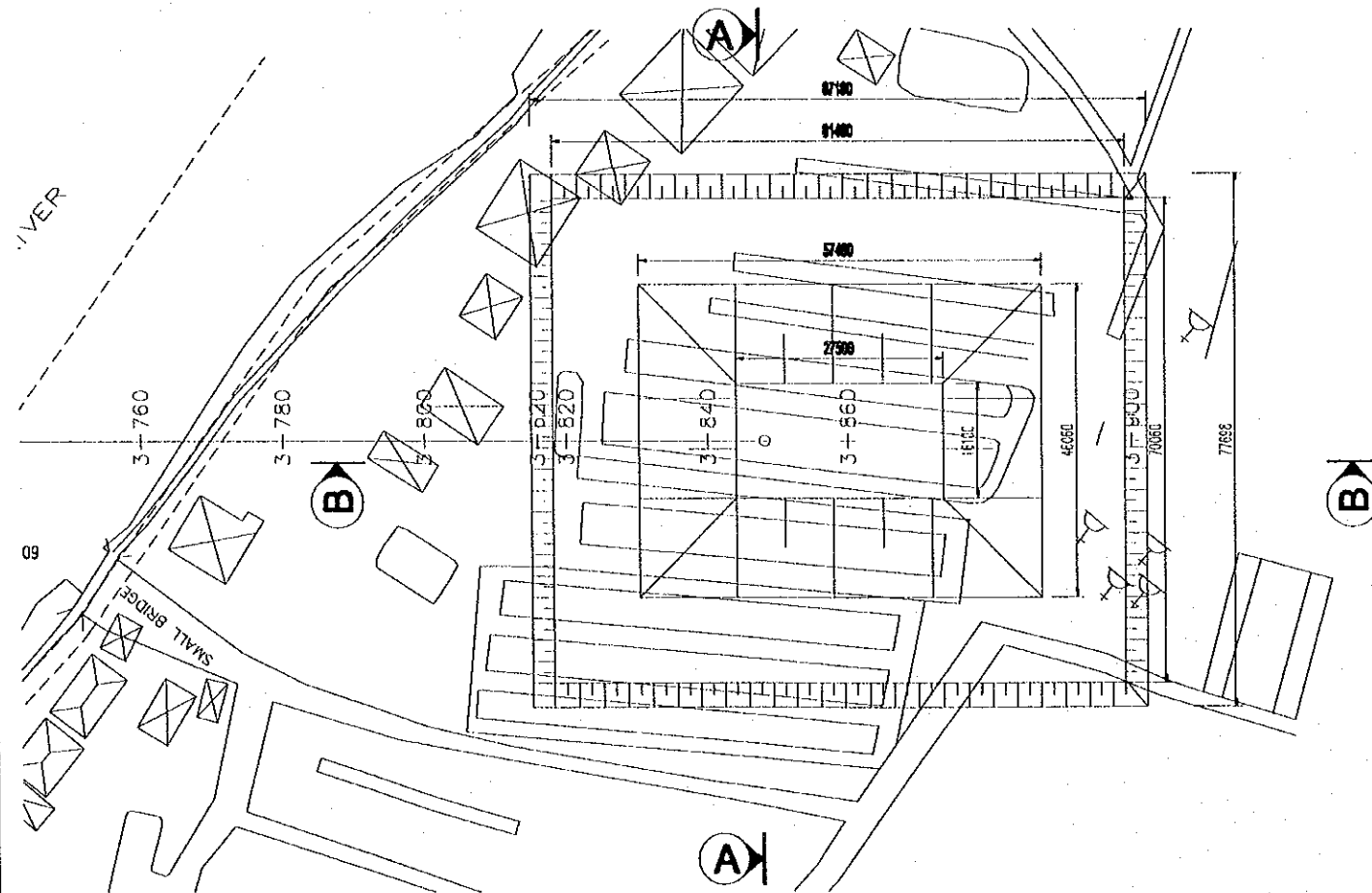
CROSS SECTION A-A

SCALE 1:500

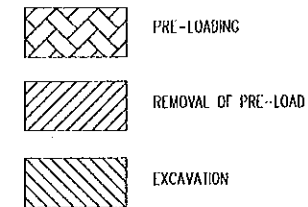


PLAN

SCALE 1:1000



LEGEND



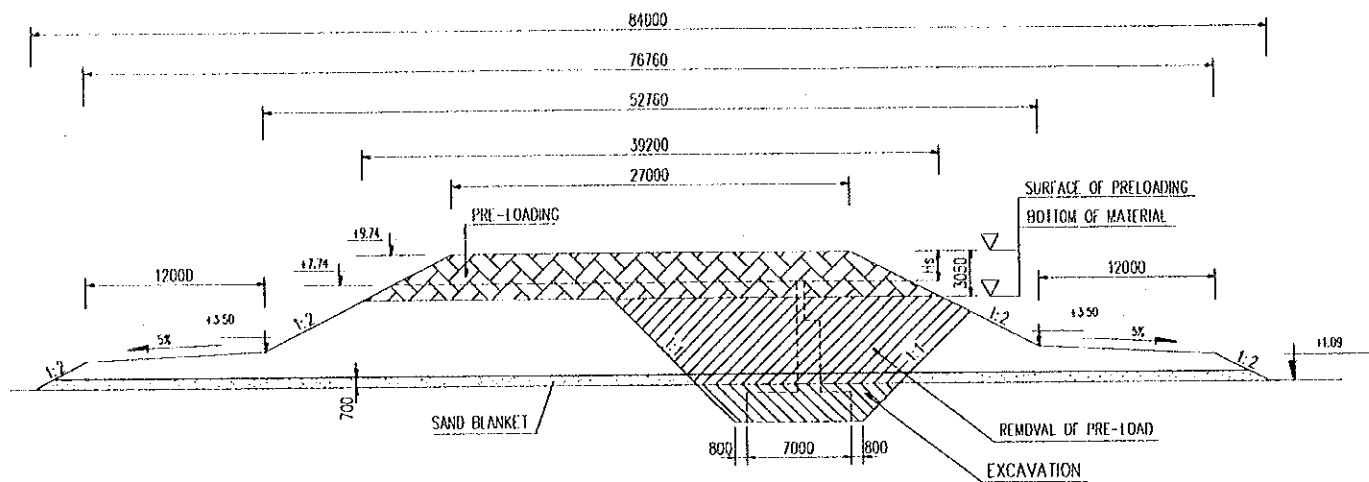
NOTE

ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE INDICATED.

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: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	TRA ON BRIDGE PRELOADING AT ABUTMENT "A2"	P1/SGT/0230

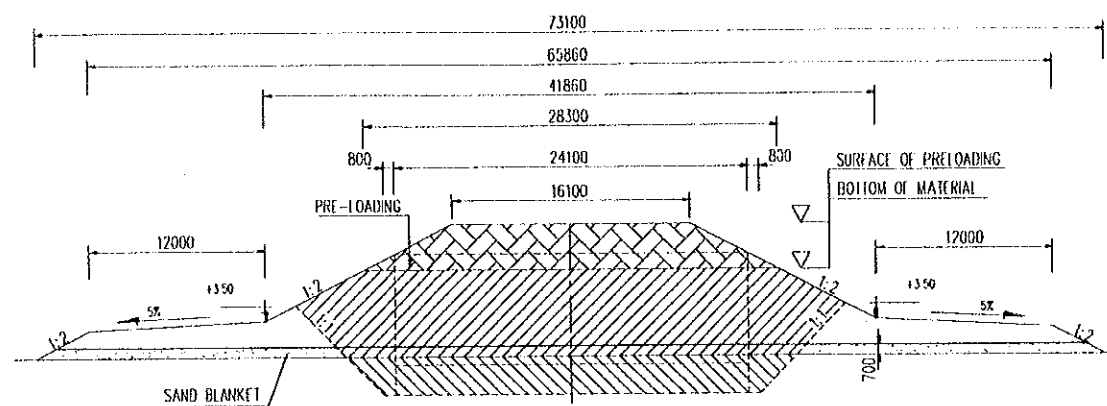
LONGITUDINAL SECTION B-B

SCALE 1:500



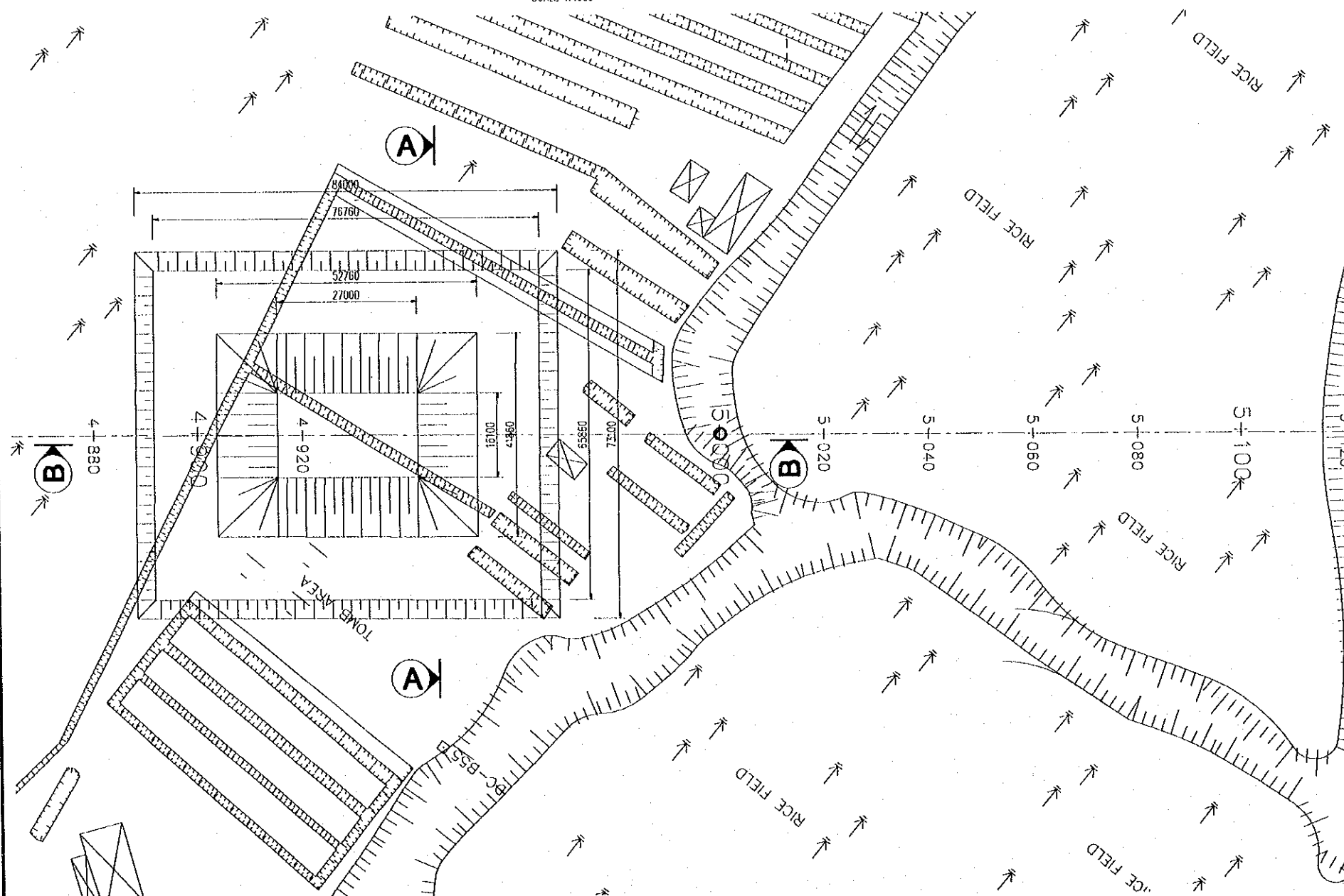
CROSS SECTION A-A

SCALE 1:500






PLAN

SCALE 1:1000





LEGEND

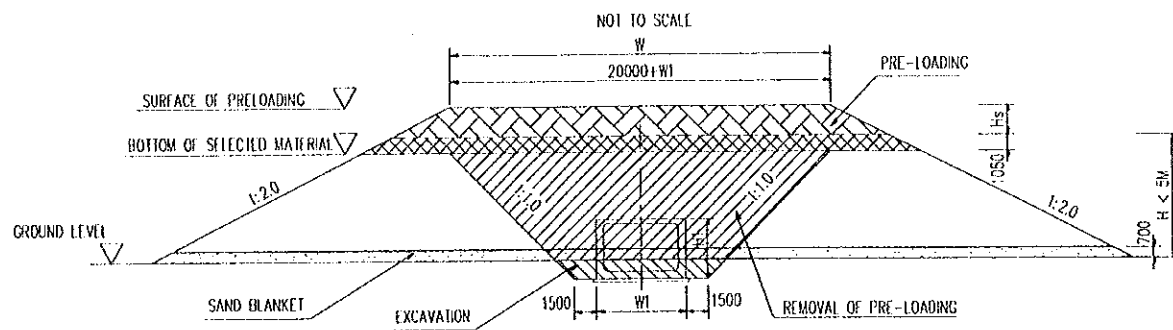
-  PRE-LOADING
-  REMOVAL OF PRE-LOAD
-  EXCAVATION

NOTE

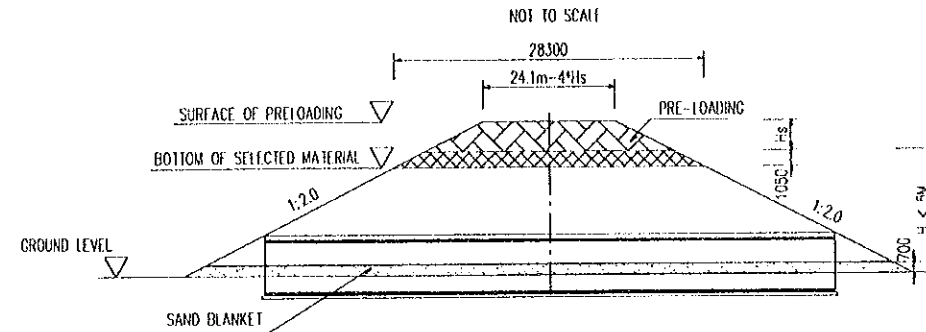
ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE INDICATED.

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 NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	CHECKED BY K. Nakai <i>K. Nakai</i> 29/9/2000	APPROVED BY K. Enomoto <i>K. Enomoto</i> 5/10/2000	DRAWING TITLE CAN THO BRIDGE PRELOADING AT ABUTMENT "A1"	DWG NO. P1/SGT/0240
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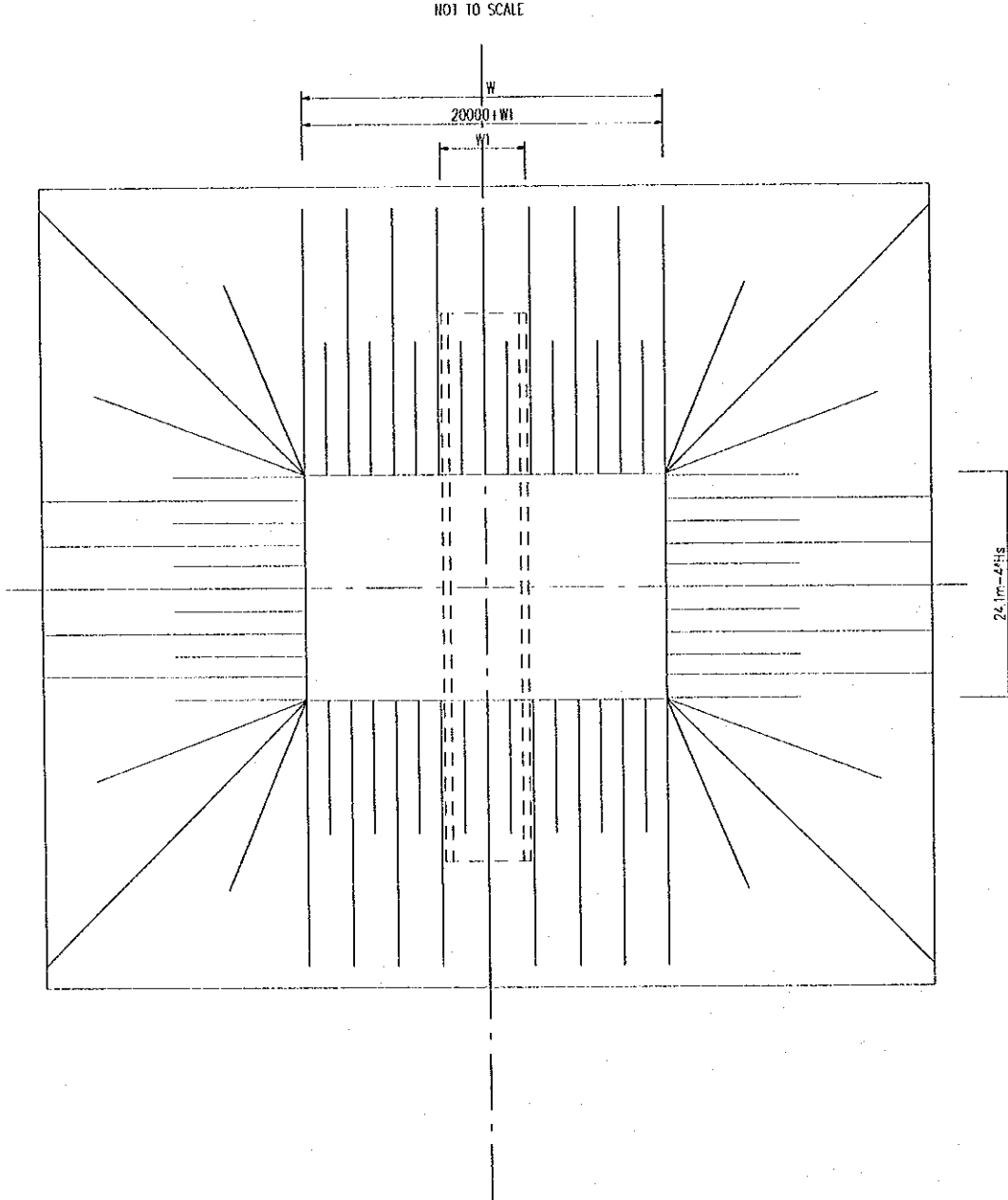
LONGITUDINAL SECTION



CROSS SECTION



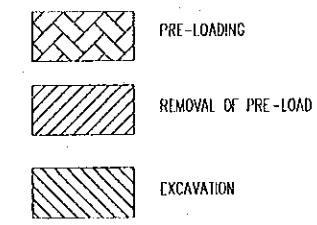
PLAN



LIST OF CULVERTS

No.	Chainage	Dimension W1 x H1 (m)	Type	Dimension		Height of PRE-LOADING Hs (m)
				W (m)	H (m)	
1	MAIN WAY					
1	Km 0+51.8	D1.5m	Single	21.78	3.49	1.0
2	Km 0+183.7	3.0 x 3.2	Single	23.70	4.25	1.5
3	Km 0+369.5	3.0 x 3.2	Single	23.70	4.58	1.5
4	Km 1+300	2.5 x 1.5	Double	25.90	2.50	0.0
5	Km 1+560	3.0 x 3.50	Single	23.70	4.58	1.5
6	Km 2+150	2.5 x 2.0	Double	25.90	2.99	1.0
7	Km 2+620	5.0 x 3.8	Single	25.80	4.93	1.5
8	Km 2+835	2.5 x 2.0	Double	25.90	4.09	1.5
9	Km 3+170	2.5 x 1.5	Double	25.90	2.62	0.0
10	Km 4+125	2.5 x 1.5	Double	25.90	3.02	1.0
11	Km 4+318	5.0 x 4.5	Double	51.20	4.67	1.5
12	INTERCHANGE 2					
1	Ramp "A" - Km 0+300	2.5x1.5	Single	23.10	2.36	0.0
2	Ramp "B" - Km 0+220	2.5x1.5	Single	23.10	2.36	0.0
3	Ramp "C" - Km 0+240	2.5x1.5	Single	23.10	2.36	0.0
4	Ramp "D" - Km 0+300	2.5x1.5	Single	23.10	2.36	0.0

LEGEND

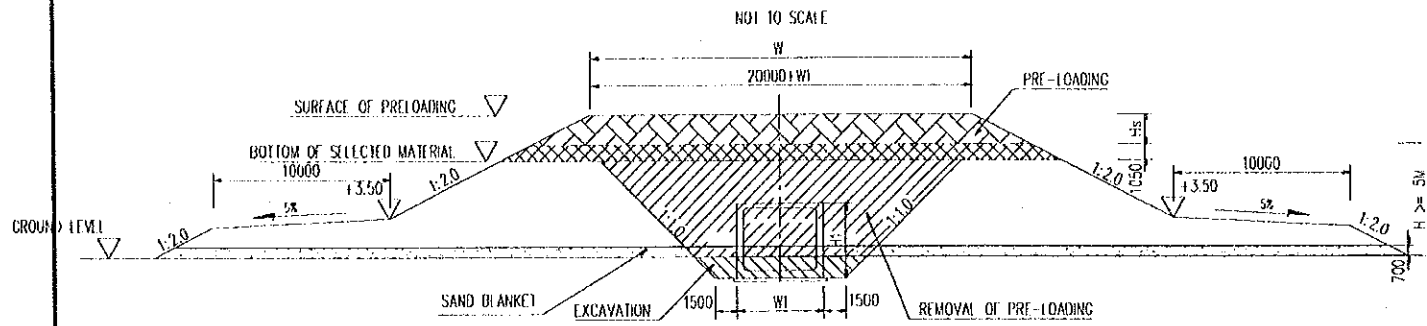


NOTE

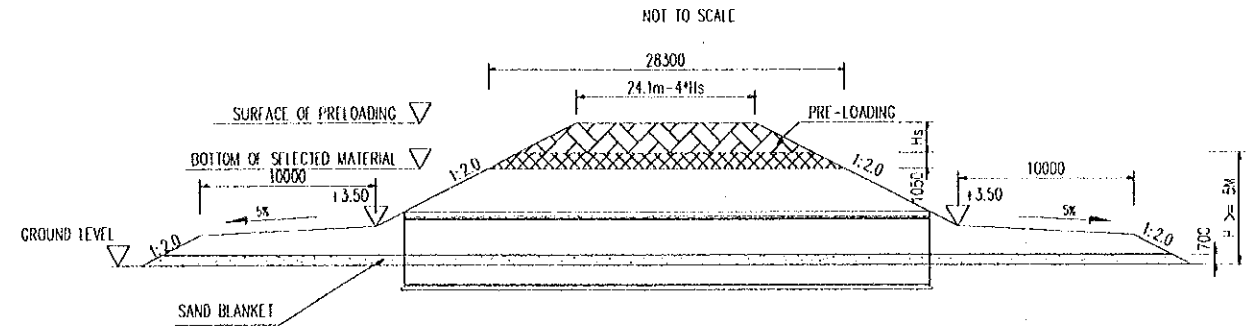
ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE INDICATED.

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: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	PRELOADING AT CULVERTS KM 0+051.8 TO KM 4+640 (1/2)	P1/SGT/0250

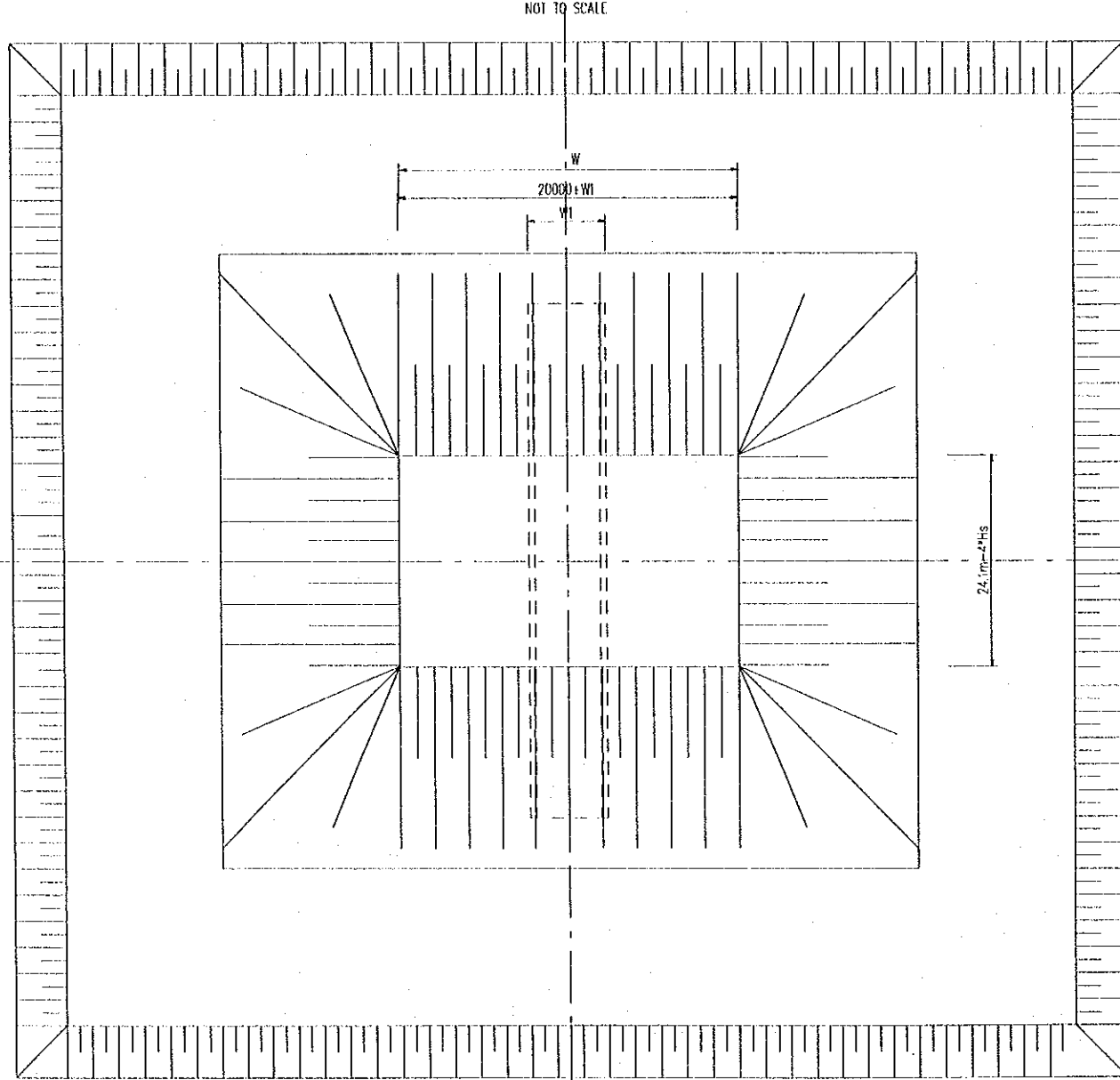
LONGITUDINAL SECTION



CROSS SECTION



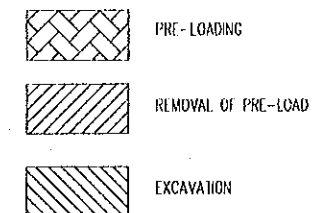
PLAN



LIST OF CULVERTS

No.	Chainage	Dimension W1 x H1 (m)	Type	Dimension		Height of PRE-LOADING Hs (m)
				W (m)	H (m)	
1	MAIN WAY	5.0 x 4.5	Single	25.80	5.64	2.0
	Km 1+063.2					
2	Km 4+640	6.5 x 4.5	Single	27.4	5.81	2.0

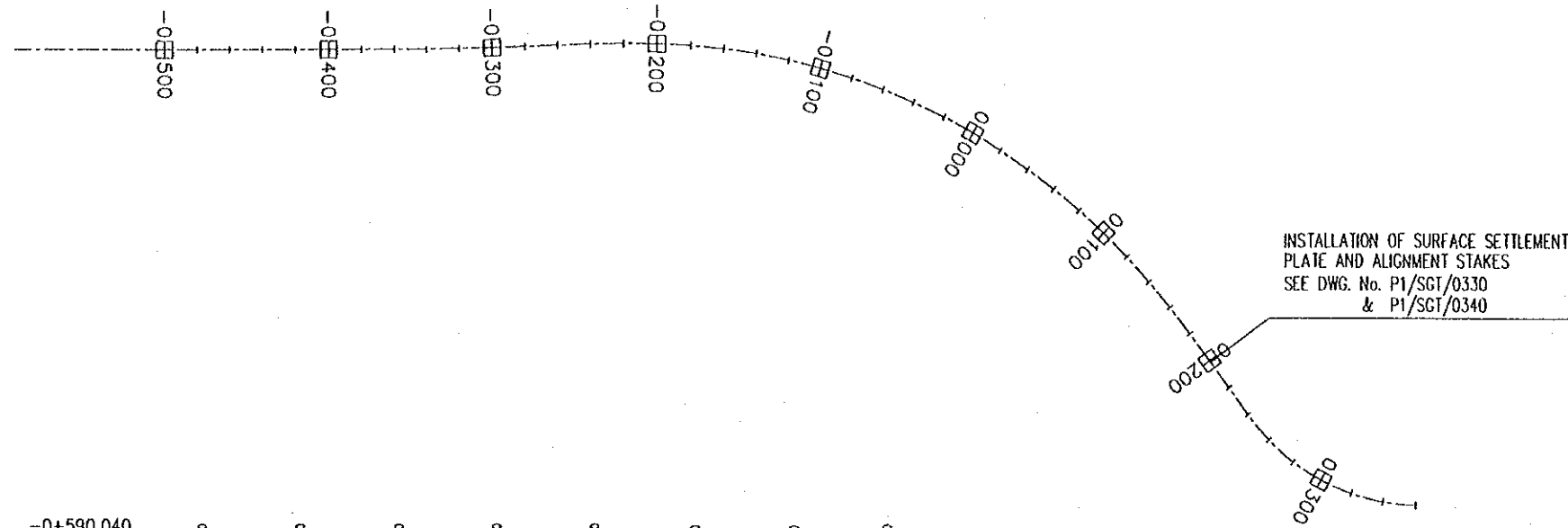
LEGEND



NOTE

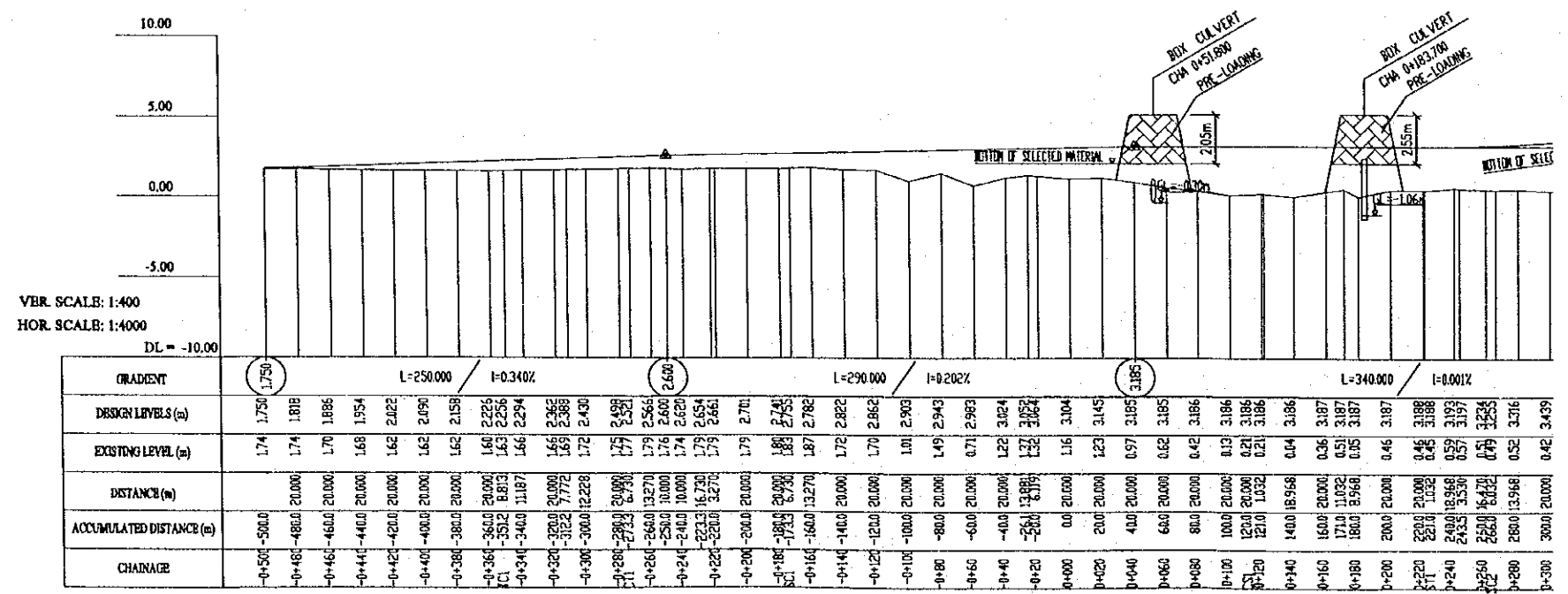
ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE INDICATED.

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: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	PRELOADING AT CULVERTS KM 0+051.8 TO KM 4+640 (2/2)	P1/SGT/0260



	-0+590.040	0+480	0+420	0+360	0+300	0+240	0+180	0+120	0+060	0+000	0+060	0+120	0+180	0+240	0+300
SDB															
SURG											1.0	1.0	1.5	1.5	1.5
CWB : Height		0	0	0	0	0	0	0	0	0	0	0	0	0	0
CWB : Width		0	0	0	0	0	0	0	0	0	0	0	0	0	0
PVD : Length		0	0	0	0	0	0	0	0	0	0	29	29	29	29
PVD : Spacing		0	0	0	0	0	0	0	0	0	0	3.0/1.5	3.0/1.5	3.0/1.5	3.0/1.5
SSP	Right												APP	APP	APP
	Center										APP	APP	APP	APP	APP
	Left														
AS	Right									APP	APP	APP	APP	APP	APP
	Left									APP	APP	APP	APP	APP	APP
DSP															
INC															
EP															
OW															

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- △
- ▲
-
- ◎



LEGEND

- △ : COUNTER BERM IS USED
- ▽ : COUNTER BERM IS NOT USED

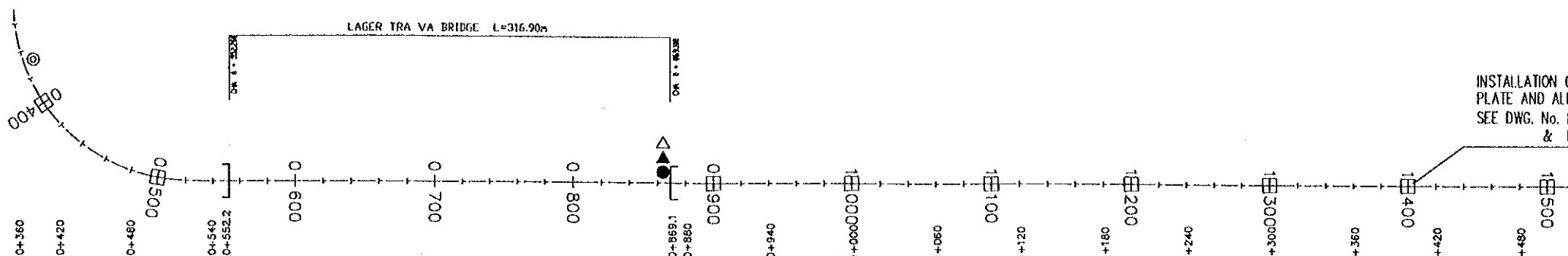
NOTES :

- SSP (□) AND AS (X) NOT SHOWN ON THE PLAN FOR CLARITY.
- △ SYMBOL FOR CHAINAGE OF EVERY 100M.

ABBREVIATION

- SDB: SURFACE LEVEL OF SAND DRAINAGE BLANKET
- SURG: SURCHARGE
- CWB: COUNTERWEIGHT BERM
- PVD: PREFABRICATED VERTICAL DRAIN
- APP: APPLICABLE
- SSP: SURFACE SETTLEMENT PLATE
- AS: ALIGNMENT STAKES
- DSP: DEEP SETTLEMENT PLATE
- INC: INCLINOMETER
- EP: ELECTRICAL PIEZOMETER
- OW: OBSERVATION WELL

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 K. Nemoto SIGNATURE DATE 20/9/2000	K. Nakai 29/9/2000	K. Enomoto 5/10/2000	GENERAL LAYOUT OF MOVEMENT OBSERVATION DEVICES KM -0+500 TO KM 0+300 (1/6)	P1/SGT/0270



INSTALLATION OF SURFACE SETTLEMENT PLATE AND ALIGNMENT STAKES
SEE DWG. No. P1/SGT/0330 & P1/SGT/0340

SDB																				
SURG																				
CWB : Height																				
CWB : Width																				
PVD : Length																				
PVD : Spacing																				
SSP	Right		APP																	
	Center		APP		APP		APP		APP		APP		APP		APP		APP		APP	
	Left		APP		APP		APP		APP		APP		APP		APP		APP		APP	
AS	Right		APP		APP		APP		APP		APP		APP		APP		APP		APP	
	Left		APP		APP		APP		APP		APP		APP		APP		APP		APP	
DSP																				
INC																				
EP																				
OW	APP																			

-
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LEGEND

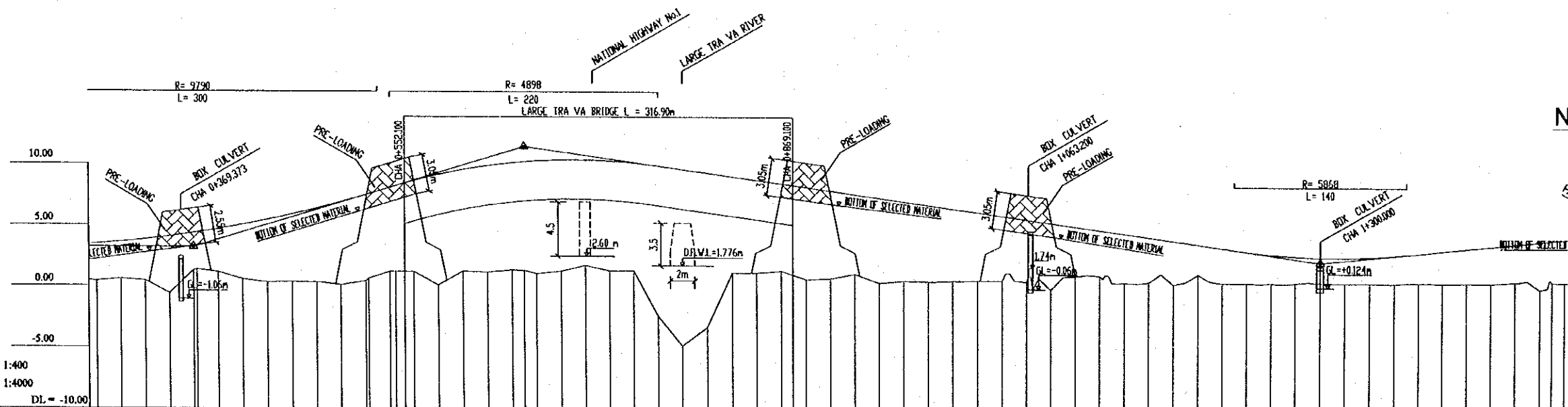
- ▲ : COUNTER BERM IS USED
- △ : COUNTER BERM IS NOT USED

NOTES :

- SSP (□) AND AS (⊗) NOT SHOWN ON THE PLAN FOR CLARITY.
- ⊞ SYMBOL FOR CHAINAGE OF EVERY 100M.

ABBREVIATION

- SDB: SURFACE LEVEL OF SAND DRAINAGE BLANKET
 SURG: SURCHARGE
 CWB: COUNTERWEIGHT BERM
 PVD: PREFABRICATED VERTICAL DRAIN
 APP: APPLICABLE
 SSP: SURFACE SETTLEMENT PLATE
 AS: ALIGNMENT STAKES
 DSP: DEEP SETTLEMENT PLATE
 INC: INCLINOMETER
 EP: ELECTRICAL PIEZOMETER
 OW: OBSERVATION WELL



VER. SCALE: 1:400
HOR. SCALE: 1:4000
DL = -10.00

GRADIENT	1:1.9%		L=270000														I=3.067%														L=650000														T=-1.426%		L=260000														I=0.960%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
DESIGN LEVELS (m)	0.42	0.43	0.45	0.47	0.49	0.51	0.53	0.55	0.57	0.59	0.61	0.63	0.65	0.67	0.69	0.71	0.73	0.75	0.77	0.79	0.81	0.83	0.85	0.87	0.89	0.91	0.93	0.95	0.97	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.13	1.15	1.17	1.19	1.21	1.23	1.25	1.27	1.29	1.31	1.33	1.35	1.37	1.39	1.41	1.43	1.45	1.47	1.49	1.51	1.53	1.55	1.57	1.59	1.61	1.63	1.65	1.67	1.69	1.71	1.73	1.75	1.77	1.79	1.81	1.83	1.85	1.87	1.89	1.91	1.93	1.95	1.97	1.99	2.01	2.03	2.05	2.07	2.09	2.11	2.13	2.15	2.17	2.19	2.21	2.23	2.25	2.27	2.29	2.31	2.33	2.35	2.37	2.39	2.41	2.43	2.45	2.47	2.49	2.51	2.53	2.55	2.57	2.59	2.61	2.63	2.65	2.67	2.69	2.71	2.73	2.75	2.77	2.79	2.81	2.83	2.85	2.87	2.89	2.91	2.93	2.95	2.97	2.99	3.01	3.03	3.05	3.07	3.09	3.11	3.13	3.15	3.17	3.19	3.21	3.23	3.25	3.27	3.29	3.31	3.33	3.35	3.37	3.39	3.41	3.43	3.45	3.47	3.49	3.51	3.53	3.55	3.57	3.59	3.61	3.63	3.65	3.67	3.69	3.71	3.73	3.75	3.77	3.79	3.81	3.83	3.85	3.87	3.89	3.91	3.93	3.95	3.97	3.99	4.01	4.03	4.05	4.07	4.09	4.11	4.13	4.15	4.17	4.19	4.21	4.23	4.25	4.27	4.29	4.31	4.33	4.35	4.37	4.39	4.41	4.43	4.45	4.47	4.49	4.51	4.53	4.55	4.57	4.59	4.61	4.63	4.65	4.67	4.69	4.71	4.73	4.75	4.77	4.79	4.81	4.83	4.85	4.87	4.89	4.91	4.93	4.95	4.97	4.99	5.01	5.03	5.05	5.07	5.09	5.11	5.13	5.15	5.17	5.19	5.21	5.23	5.25	5.27	5.29	5.31	5.33	5.35	5.37	5.39	5.41	5.43	5.45	5.47	5.49	5.51	5.53	5.55	5.57	5.59	5.61	5.63	5.65	5.67	5.69	5.71	5.73	5.75	5.77	5.79	5.81	5.83	5.85	5.87	5.89	5.91	5.93	5.95	5.97	5.99	6.01	6.03	6.05	6.07	6.09	6.11	6.13	6.15	6.17	6.19	6.21	6.23	6.25	6.27	6.29	6.31	6.33	6.35	6.37	6.39	6.41	6.43	6.45	6.47	6.49	6.51	6.53	6.55	6.57	6.59	6.61	6.63	6.65	6.67	6.69	6.71	6.73	6.75	6.77	6.79	6.81	6.83	6.85	6.87	6.89	6.91	6.93	6.95	6.97	6.99	7.01	7.03	7.05	7.07	7.09	7.11	7.13	7.15	7.17	7.19	7.21	7.23	7.25	7.27	7.29	7.31	7.33	7.35	7.37	7.39	7.41	7.43	7.45	7.47	7.49	7.51	7.53	7.55	7.57	7.59	7.61	7.63	7.65	7.67	7.69	7.71	7.73	7.75	7.77	7.79	7.81	7.83	7.85	7.87	7.89	7.91	7.93	7.95	7.97	7.99	8.01	8.03	8.05	8.07	8.09	8.11	8.13	8.15	8.17	8.19	8.21	8.23	8.25	8.27	8.29	8.31	8.33	8.35	8.37	8.39	8.41	8.43	8.45	8.47	8.49	8.51	8.53	8.55	8.57	8.59	8.61	8.63	8.65	8.67	8.69	8.71	8.73	8.75	8.77	8.79	8.81	8.83	8.85	8.87	8.89	8.91	8.93	8.95	8.97	8.99	9.01	9.03	9.05	9.07	9.09	9.11	9.13	9.15	9.17	9.19	9.21	9.23	9.25	9.27	9.29	9.31	9.33	9.35	9.37	9.39	9.41	9.43	9.45	9.47	9.49	9.51	9.53	9.55	9.57	9.59	9.61	9.63	9.65	9.67	9.69	9.71	9.73	9.75	9.77	9.79	9.81	9.83	9.85	9.87	9.89	9.91	9.93	9.95	9.97	9.99	10.01	10.03	10.05	10.07	10.09	10.11	10.13	10.15	10.17	10.19	10.21	10.23	10.25	10.27	10.29	10.31	10.33	10.35	10.37	10.39	10.41	10.43	10.45	10.47	10.49	10.51	10.53	10.55	10.57	10.59	10.61	10.63	10.65	10.67	10.69	10.71	10.73	10.75	10.77	10.79	10.81	10.83	10.85	10.87	10.89	10.91	10.93	10.95	10.97	10.99	11.01	11.03	11.05	11.07	11.09	11.11	11.13	11.15	11.17	11.19	11.21	11.23	11.25	11.27	11.29	11.31	11.33	11.35	11.37	11.39	11.41	11.43	11.45	11.47	11.49	11.51	11.53	11.55	11.57	11.59	11.61	11.63	11.65	11.67	11.69	11.71	11.73	11.75	11.77	11.79	11.81	11.83	11.85	11.87	11.89	11.91	11.93	11.95	11.97	11.99	12.01	12.03	12.05	12.07	12.09	12.11	12.13	12.15	12.17	12.19	12.21	12.23	12.25	12.27	12.29	12.31	12.33	12.35	12.37	12.39	12.41	12.43	12.45	12.47	12.49	12.51	12.53	12.55	12.57	12.59	12.61	12.63	12.65	12.67	12.69	12.71	12.73	12.75	12.77	12.79	12.81	12.83	12.85	12.87	12.89	12.91	12.93	12.95	12.97	12.99	13.01	13.03	13.05	13.07	13.09	13.11	13.13	13.15	13.17	13.19	13.21	13.23	13.25	13.27	13.29	13.31	13.33	13.35	13.37	13.39	13.41	13.43	13.45	13.47	13.49	13.51	13.53	13.55	13.57	13.59	13.61	13.63	13.65	13.67	13.69	13.71	13.73	13.75	13.77	13.79	13.81	13.83	13.85	13.87	13.89	13.91	13.93	13.95	13.97	13.99	14.01	14.03	14.05	14.07	14.09	14.11	14.13	14.15	14.17	14.19	14.21	14.23	14.25	14.27	14.29	14.31	14.33	14.35	14.37	14.39	14.41	14.43	14.45	14.47	14.49	14.51	14.53	14.55	14.57	14.59	14.61	14.63	14.65	14.67	14.69	14.71	14.73	14.75	14.77	14.79	14.81	14.83	14.85	14.87	14.89	14.91	14.93	14.95	14.97	14.99	15.01	15.03	15.05	15.07	15.09	15.11	15.13	15.15	15.17	15.19	15.21	15.23	15.25	15.27	15.29	15.31	15.33	15.35	15.37	15.39	15.41	15.43	15.45	15.47	15.49	15.51	15.53	15.55	15.57	15.59	15.61	15.63	15.65	15.67	15.69	15.71	15.73	15.75	15.77	15.79	15.81	15.83	15.85	15.87	15.89	15.91	15.93	15.95	15.97	15.99	16.01	16.03	16.05	16.07	16.09	16.11	16.13	16.15	16.17	16.19	16.21	16.23	16.25	16.27	16.29	16.31	16.33	16.35	16.37	16.39	16.41	16.43	16.45	16.47	16.49	16.51	16.53	16.55	16.57	16.59	16.61	16.63	16.65	16.67	16.69	16.71	16.73	16.75	16.77	16.79	16.81	16.83	16.85	16.87	16.89	16.91	16.93	16.95	16.97	16.99	17.01	17.03	17.05	17.07	17.09	17.11	17.13	17.15	17.17	17.19	17.21	17.23	17.25	17.27	17.29	17.31	17.33	17.35	17.37	17.39	17.41	17.43	17.45	17.47	17.49	17.51	17.53	17.55	17.57	17.59	17.61	17.63	17.65	17.67	17.69	17.71	17.73	17.75	17.77	17.79	17.81	17.83	17.85	17.87	17.89	17.91	17.93	17.95	17.97	17.99	18.01	18.03	18.05	18.07	18.09	18.11	18.13	18.15	18.17	18.19	18.21	18.23	18.25	18.27	18.29	18.31	18.33	18.35	18.37	18.39	18.41	18.43	18.45	18.47	18.49	18.51	18.53	18.55	18.57	18.59	18.61	18.63	18.65	18.67	18.69	18.71	18.73	18.75	18.77	18.79	18.81	18.83	18.85	18.87	18.89	18.91	18.93	18.95	18.97	18.99	19.01	19.03	19.05	19.07	19.09	19.11	19.13	19.15	19.17	19.19	19.21	19.23	19.25	19.27	19.29	19.31	19.33	19.35	19.37	19.39	19.41	19.43	19.45	19.47	19.49	19.51	19.53	19.55	19.57	19.59	19.61	19.63	19.65	19.67	19.69	19.71	19.73	19.75	19.77	19.79	19.81	19.83	19.85	19.87	19.89	19.91	19.93	19.95	19.97	19.99	20.01	20.03	20.05	20.07	20.09	20.11	20.13	20.15	20.17	20.19	20.21	20.23	20.25	20.27

SDB	SURG	CWB : Height	CWB : Width	PVD : Length	PVD : Spacing	SSP	AS	DSP	INC	EP	OW
	1.0	0	0	29	10/1.5	APP	APP				
	1.5	0	0	29	10/1.5	APP	APP				
	1.5	0	0	29	10/1.5	APP	APP				
	1.0	0	0	29	10/1.5	APP	APP				
	2.74	10	10	29	10/1.5	APP	APP				
	2.74	10	10	29	10/1.5	APP	APP				
	2.0	10	10	29	10/1.5	APP	APP				
	2.74	10	10	29	10/1.5	APP	APP				
	2.0	10	10	29	10/1.5	APP	APP				
	2.74	10	10	29	10/1.5	APP	APP				
	1.0	0	0	0	0		APP				
	1.0	0	0	0	0		APP				
	1.0	0	0	0	0		APP				
	1.0	0	0	0	0		APP				
	1.0	0	0	0	0		APP				
	5.1	0	0	29	10/1.5	APP	APP				
	2.0	10	10	29	10/1.5	APP	APP				
	2.0	10	10	29	10/1.5	APP	APP				
	5.1	0	0	29	10/1.5	APP	APP				
	2.0	10	10	29	10/1.5	APP	APP				
	2.0	10	10	29	10/1.5	APP	APP				
	5.1	0	0	29	10/1.5	APP	APP				
	2.0	10	10	29	10/1.5	APP	APP				
	2.0	10	10	29	10/1.5	APP	APP				
	5.1	0	0	29	10/1.5	APP	APP				
	2.0	10	10	29	10/1.5	APP	APP				
	2.0	10	10	29	10/1.5	APP	APP				
	5.1	0	0	29	10/1.5	APP	APP				
	2.0	10	10	29	10/1.5	APP	APP				

INSTALLATION OF SURFACE SETTLEMENT PLATE AND ALIGNMENT STAKES SEE DWG. No. P1/SGT/0330 & P1/SGT/0340

-
- ×
- △
-
-

LEGEND

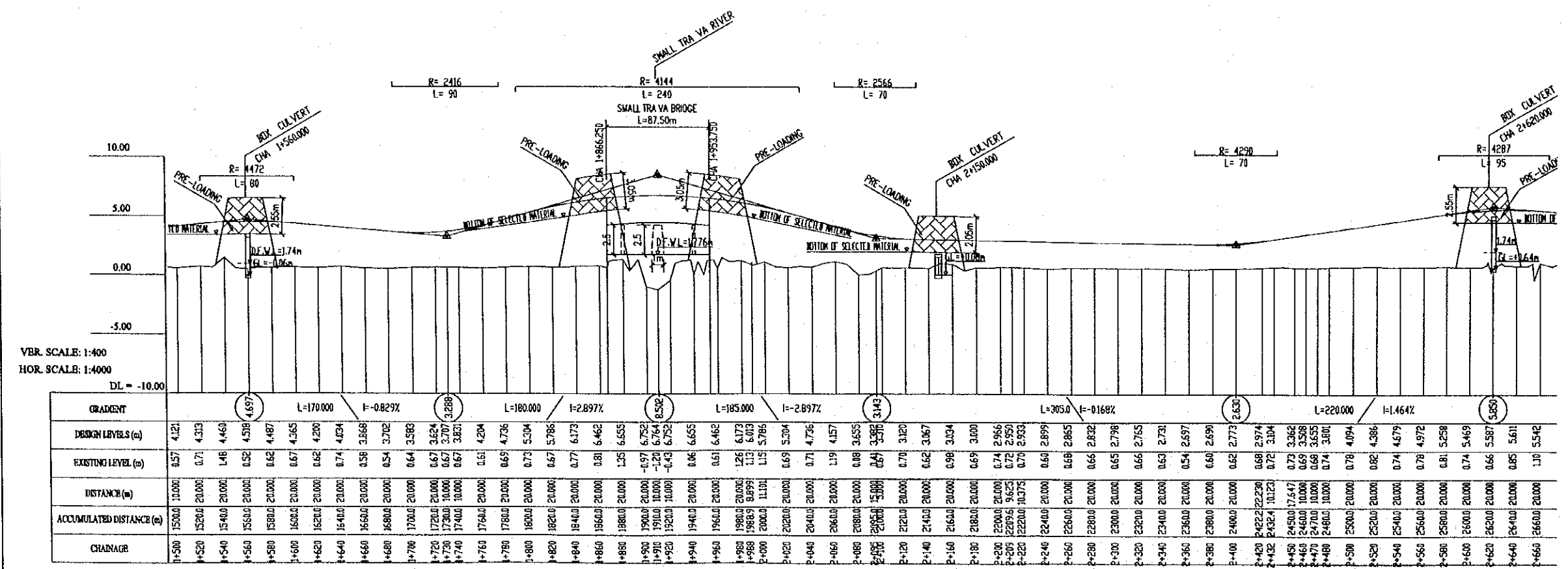
- : COUNTER BERM IS USED
- : COUNTER BERM IS NOT USED

NOTES :

- 1. SSP (□) AND AS (×) NOT SHOWN ON THE PLAN FOR CLARITY.
- 2. III SYMBOL FOR CHAINAGE OF EVERY 100M.

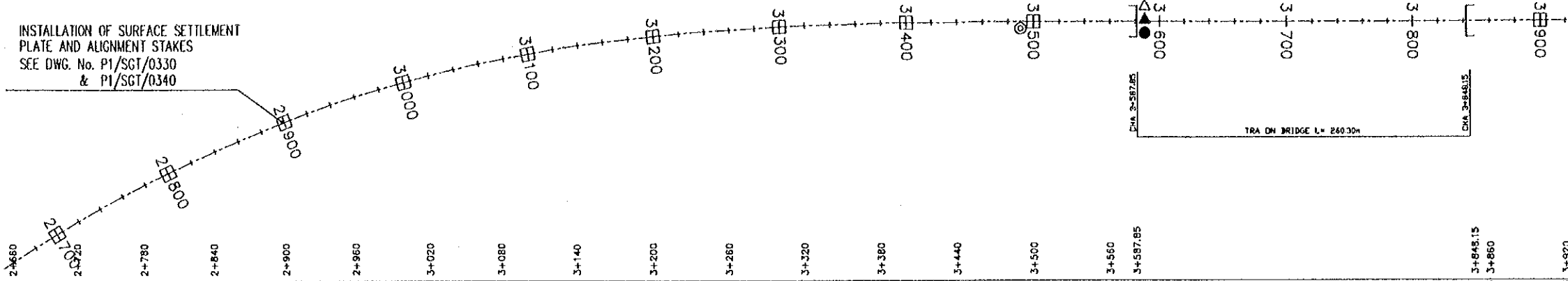
ABBREVIATION

- SDB: SURFACE LEVEL OF SAND DRAINAGE BLANKET
- SURG: SURCHARGE
- CWB: COUNTERWEIGHT BERM
- PVD: PREFABRICATED VERTICAL DRAIN
- APP: APPLICABLE
- SSP: SURFACE SETTLEMENT PLATE
- AS: ALIGNMENT STAKES
- DSP: DEEP SETTLEMENT PLATE
- INC: INCLINOMETER
- EP: ELECTRICAL PIEZOMETER
- OW: OBSERVATION WELL



PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG. NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPON KOEI CO.,LTD.	K. Nemoto	K. Nakai	K. Enomoto	GENERAL LAYOUT OF MOVEMENT OBSERVATION DEVICES KM 1+500 TO KM 2+660 (3/6)	P1/SGT/0290

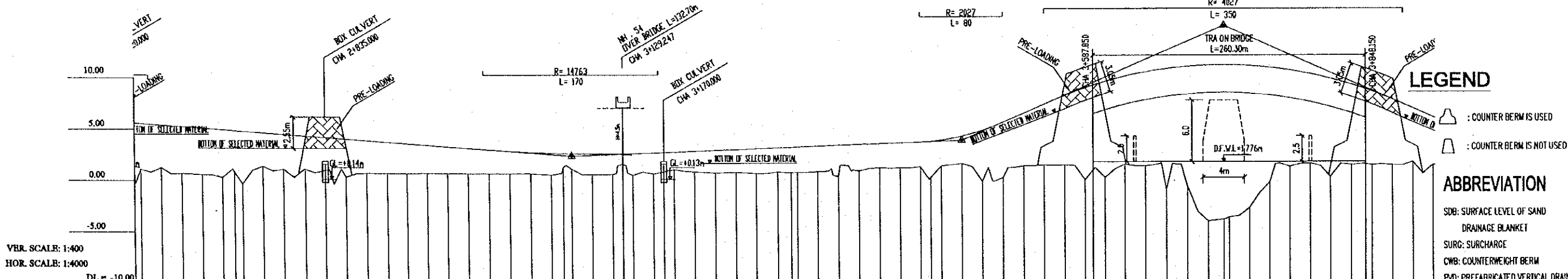
INSTALLATION OF SURFACE SETTLEMENT
PLATE AND ALIGNMENT STAKES
SEE DWG. No. P1/SGT/0330
& P1/SGT/0340



SDB	SURG	CWB : Height	CWB : Width	PVD : Length	PVD : Spacing	SSP			AS	DSP	INC	EP	OW
						Right	Center	Left					
		0	0	29	1.0/1.5	APP	APP	APP					
	1.5	0	0	29	1.0/1.5	APP	APP	APP					
	1.5	0	0	29	1.0/1.5	APP	APP	APP					
	1.0	0	0	0	0	APP	APP	APP					
	1.0	0	0	0	0	APP	APP	APP					
	1.0	0	0	0	0	APP	APP	APP					
	1.0	0	0	0	0	APP	APP	APP					
	1.0	0	0	0	0	APP	APP	APP					
	2.0	10	0	38	1.0/1.5	APP	APP	APP					
	2.0	12	0	38	1.0/1.5	APP	APP	APP					
	2.0	12	0	38	1.0/1.5	APP	APP	APP					
	2.0	10	0	38	1.0/1.5	APP	APP	APP					

NOTES :

- 1. SSP (□) AND AS (X) NOT SHOWN ON THE PLAN FOR CLARITY.
- 2. B□ SYMBOL FOR CHAINAGE OF EVERY 100M.



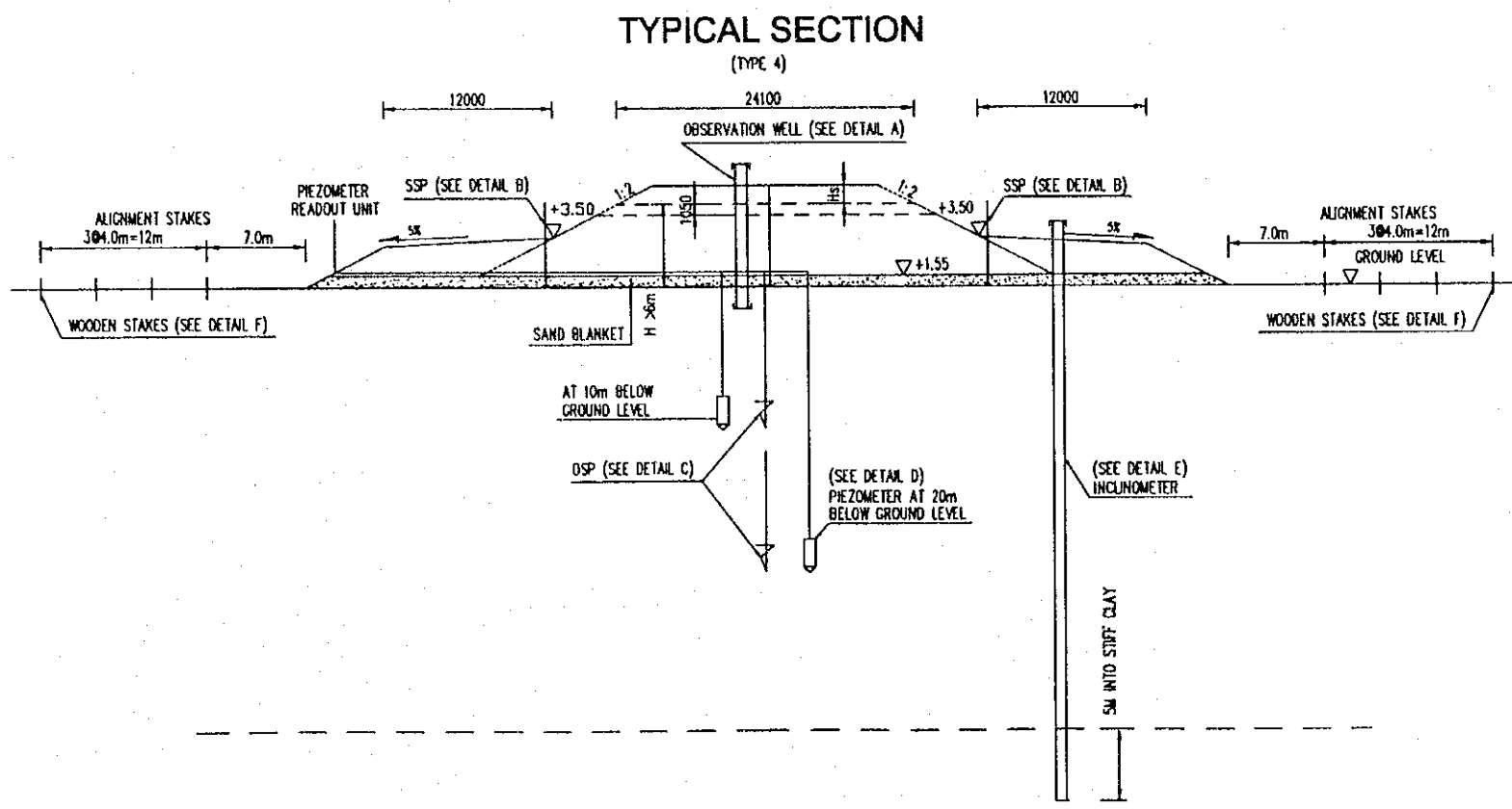
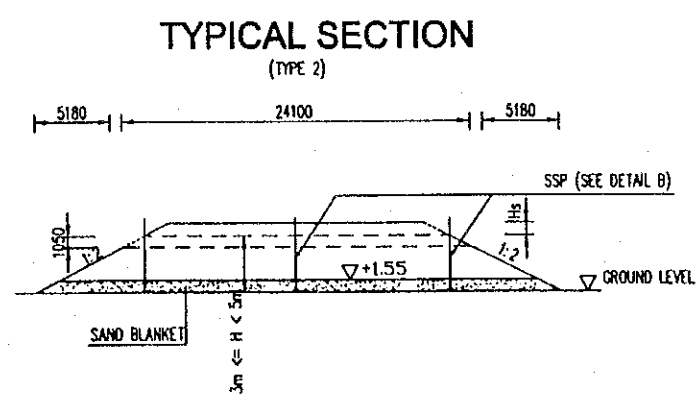
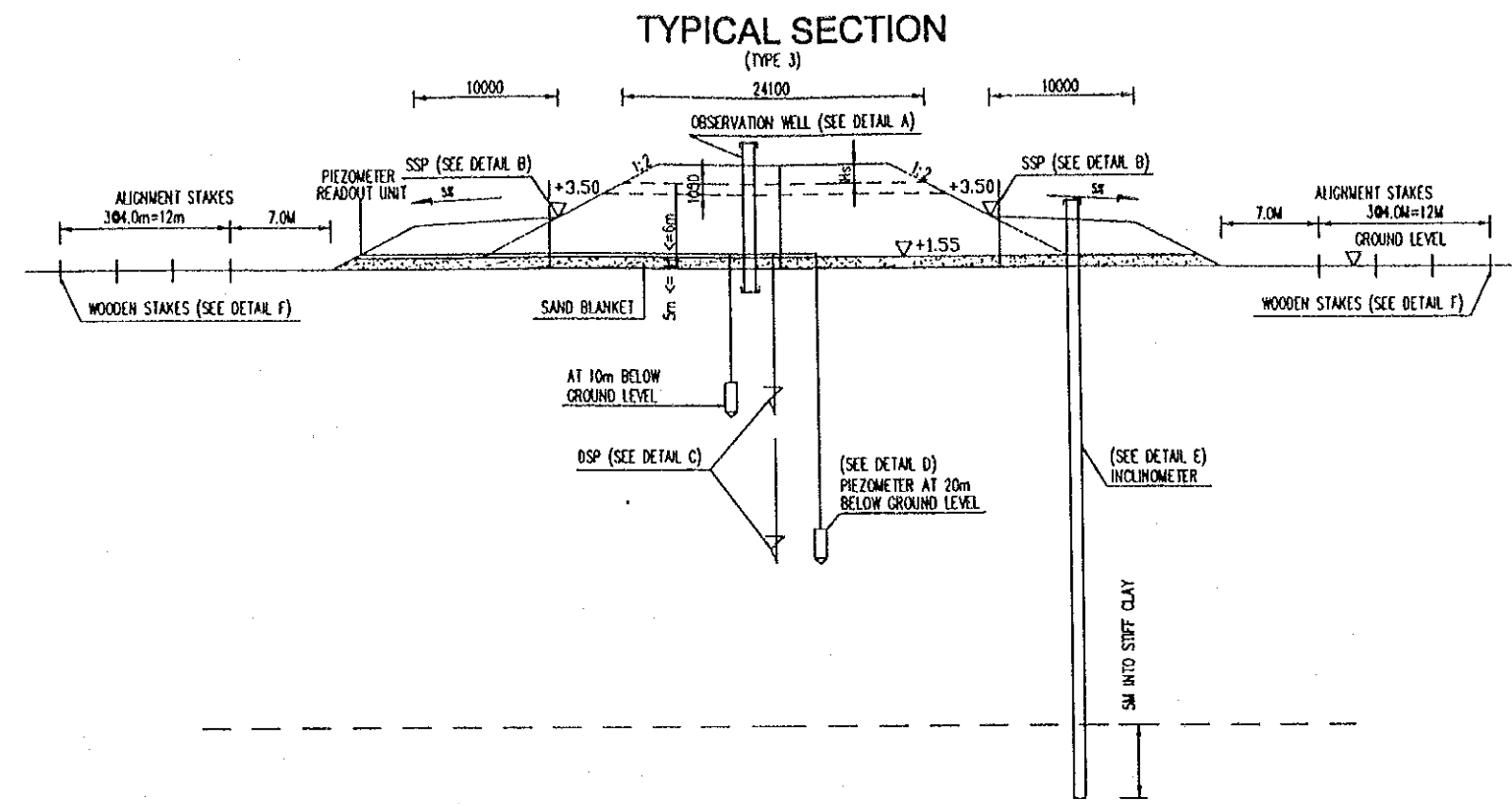
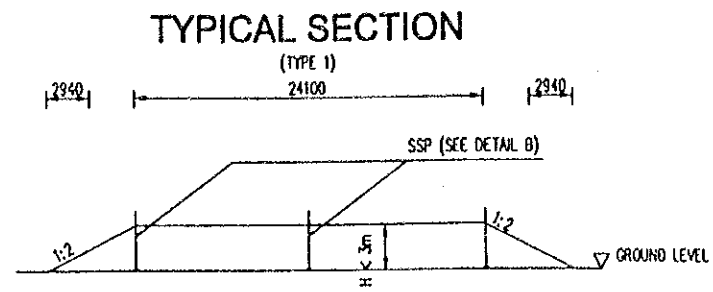
LEGEND
 □ : COUNTER BERM IS USED
 ○ : COUNTER BERM IS NOT USED

ABBREVIATION
 SDB : SURFACE LEVEL OF SAND
 DRN : DRAINAGE BLANKET
 SURG : SURCHARGE
 CWB : COUNTERWEIGHT BERM
 PVD : PREFABRICATED VERTICAL DRAIN
 APP : APPLICABLE
 SSP : SURFACE SETTLEMENT PLATE
 AS : ALIGNMENT STAKES
 DSP : DEEP SETTLEMENT PLATE
 INC : INCLINOMETER
 EP : ELECTRICAL PIEZOMETER
 OW : OBSERVATION WELL

GRADIENT	L=460.000	T=0.753%	L=380.000	I=0.399%	L=255.000	I=4.349%	L=285.000	I=4.349%
DESIGN LEVELS (m)	11.0	5.912	5.912	5.912	5.912	5.912	5.912	5.912
EXISTING LEVEL (m)	1.27	5.918	0.70	5.248	0.59	5.097	0.31	4.947
DISTANCE (m)	2660	2680	2700	2720	2740	2760	2780	2800
ACCUMULATED DISTANCE (m)	2660	2680	2700	2720	2740	2760	2780	2800
CHAINAGE	2+660	2+680	2+700	2+720	2+740	2+760	2+780	2+800

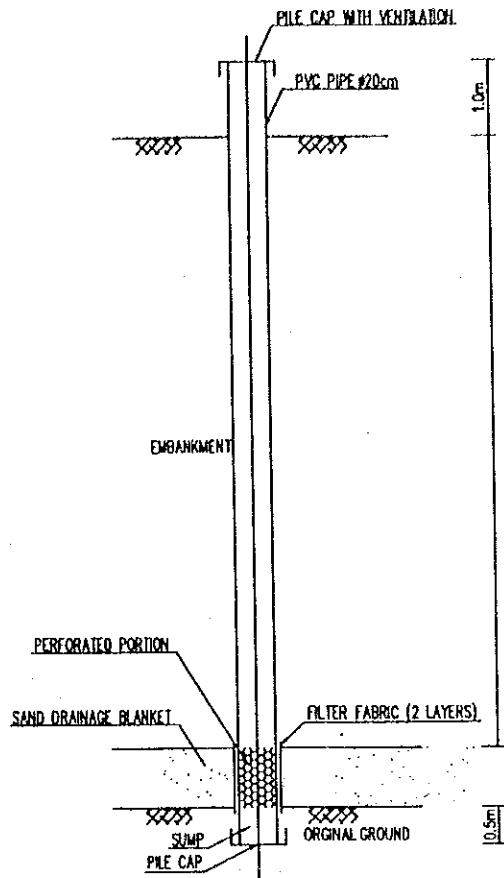
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOBI CO.,LTD.	K. Nemoto	K. Nakai	K. Enomoto	GENERAL LAYOUT OF MOVEMENT OBSERVATION DEVICES KM 2+660 TO KM 3+920 (4/6)	P1/SGT/0300

D:\DUONG VAN SANG.TEDI SOUTH\Can Tho bridge Project\from Nemoto\p1-SGT-0330.dwg Fri Jun 02 14:04:07 2000

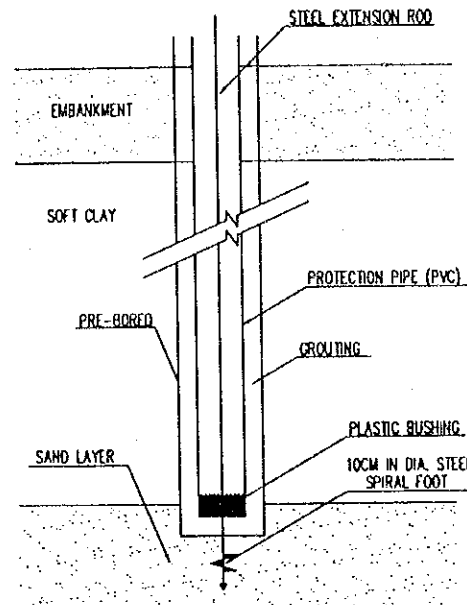


NOTE
 DETAILS A, B, C, D, E & F, SEE DWG. No. P1/SGT/0340.

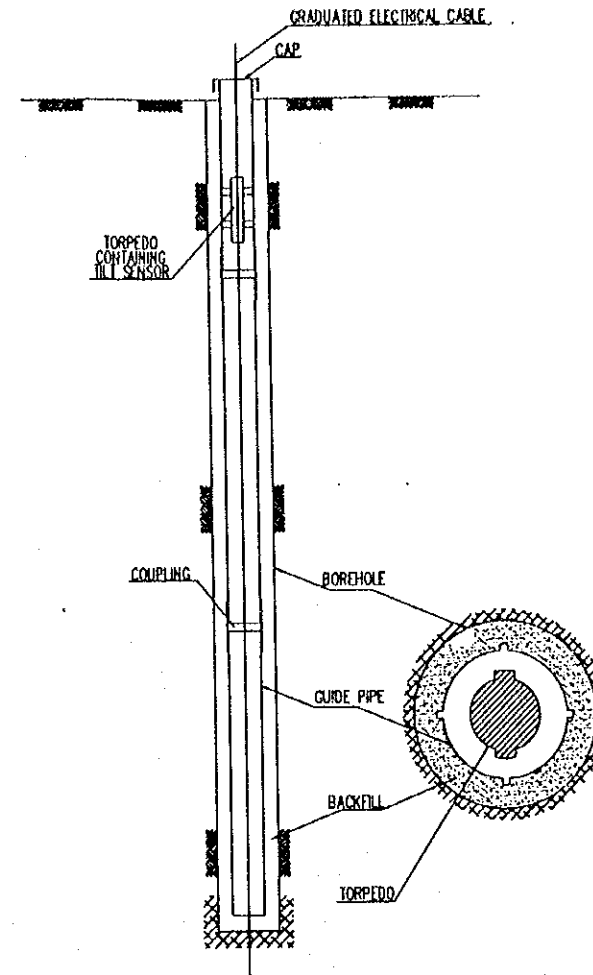
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	NAME	K. Nemoto	K. Nakai	LAYOUT OF INSTRUMENTATION FOR SOFT GROUND TREATMENT	P1/SGT/0330
				SIGNATURE	<i>K. Nemoto</i>	<i>K. Nakai</i>		
				DATE	20/9/2000	29/9/2000		
				APPROVED BY	 K. Enomoto 5/10/2000			



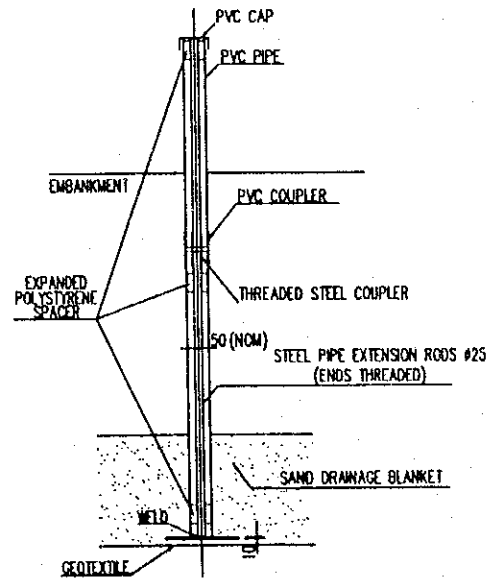
DETAIL A
OBSERVATION WELL



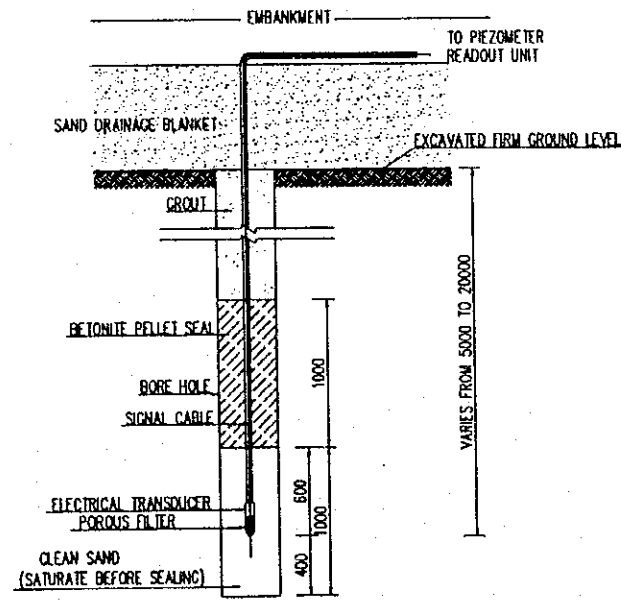
DETAIL C
DEEP SETTLEMENT PLATE (DSP)



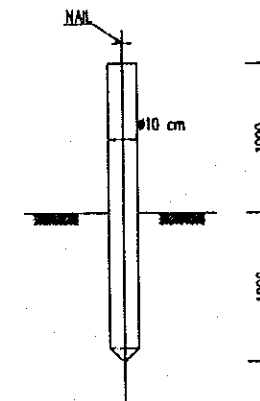
DETAIL E
INCLINOMETER



DETAIL B
SURFACE SETTLEMENT PLATE



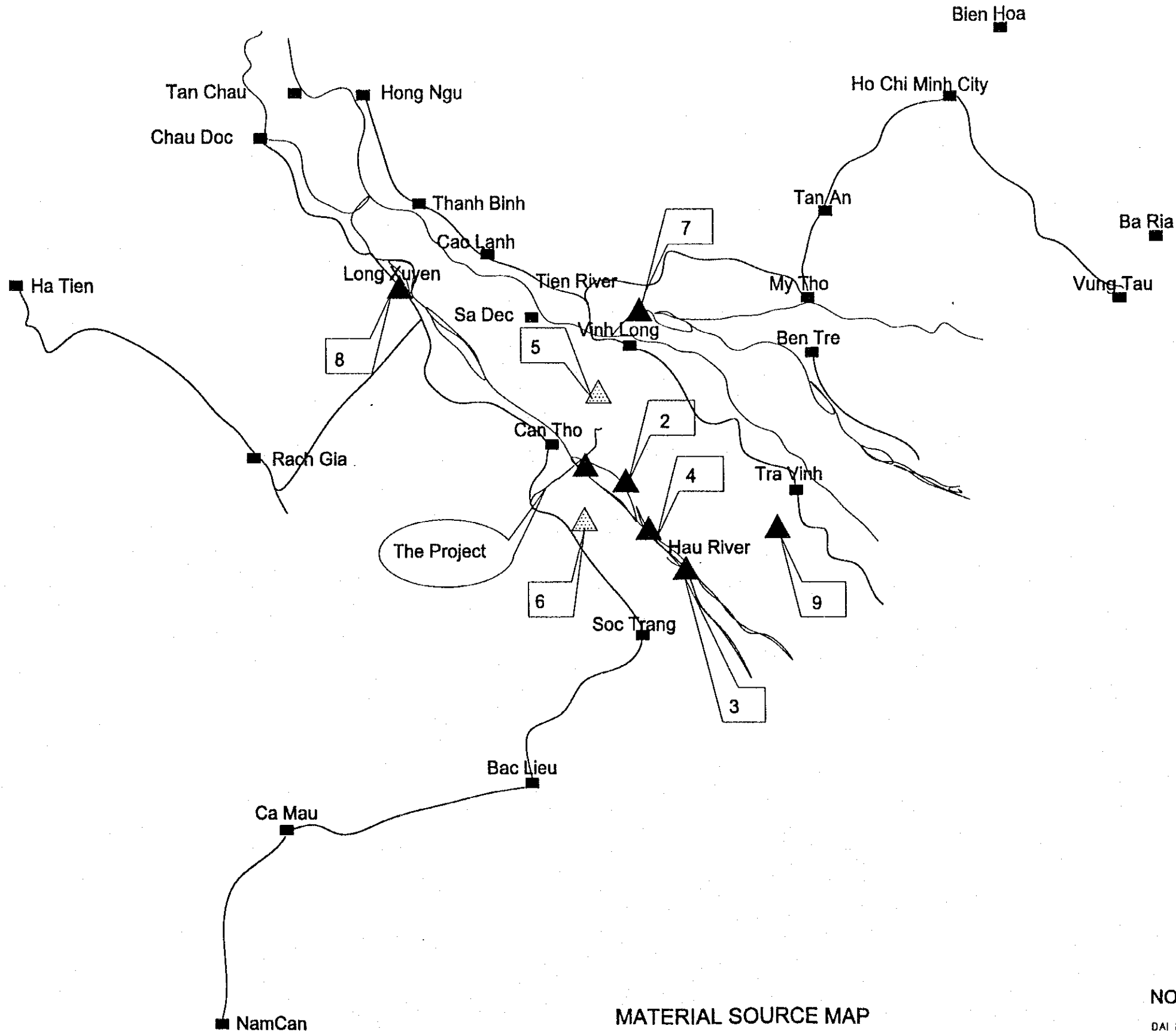
DETAIL D
ELECTRICAL PIEZOMETER



DETAIL F
WOODEN STAKE

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	K. Nemoto	K. Nakai	K. Enomoto	INSTRUMENTATION DETAILS	P1/SGT/0340
				SIGNATURE	<i>K. Nemoto</i>	<i>K. Nakai</i>			
				DATE	20/9/2000	29/9/2000			

D:\DUONG VAN SANG.TEDI SOUTH\Can Tho bridge Project\road\01-2000\location of QUARRIES AND DREDGING RIVER.dwg Thu Jun 01 10:27:24 2000



LEGEND

1. HAU GIANG 1 RIVER SAND
2. HAU GIANG 2 RIVER SAND
3. DAI NGAI RIVER SAND
4. TRA ECH RIVER SAND
- 5,6. FILLING SOIL
7. VINH LONG RIVER SAND
8. TRA VINH SAND
9. SOC TRANG SAND

CONCRETE SAND
 FILLING SOIL
 FILLING SAND

MATERIAL SOURCE MAP

NOT TO SCALE

NOTE

DAI NGAI SAND RIVER IS USED FOR SAND BLANKET AND SELECTED MATERIAL.

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	K. Nemoto	K. Nakai	K. Enomoto 	LOCATION OF QUARRIES AND DREDGING RIVER	P1/SGT/0350
				SIGNATURE					
				DATE	20/9/2000	29/9/2000			