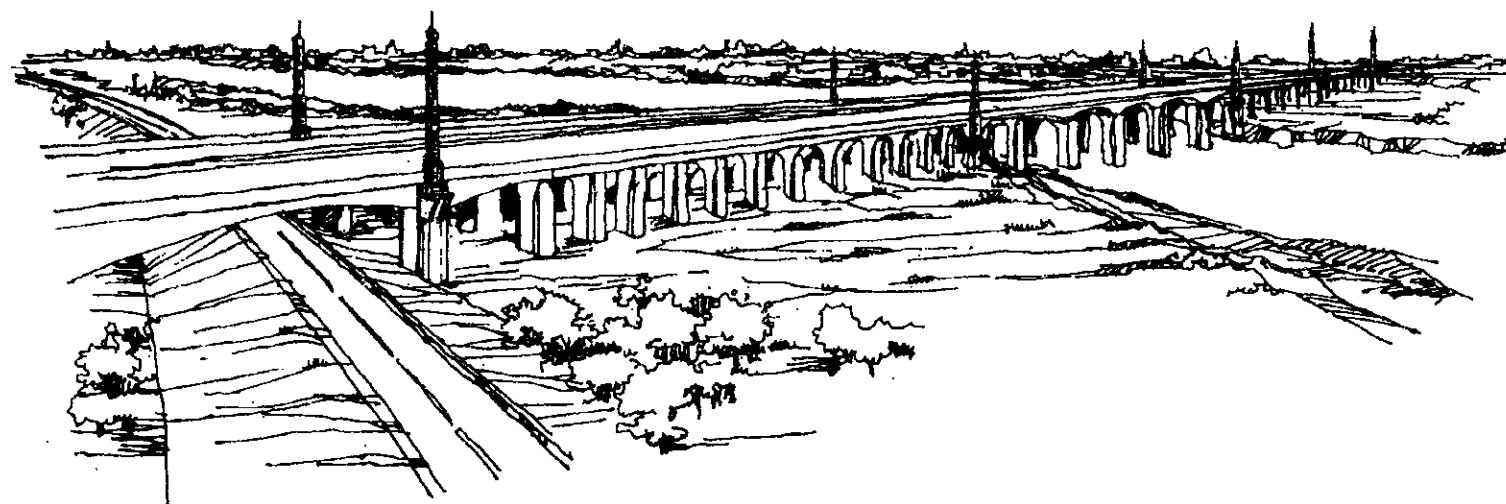


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)  
PROJECT MANAGEMENT UNIT THANG LONG  
MINISTRY OF TRANSPORT  
THE SOCIALIST REPUBLIC OF VIET NAM

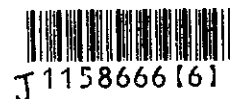
# **THE DETAILED DESIGN OF THE RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM**

FINAL REPORT

VOLUME XI : DRAWINGS  
〈 PACKAGE - 4 〉



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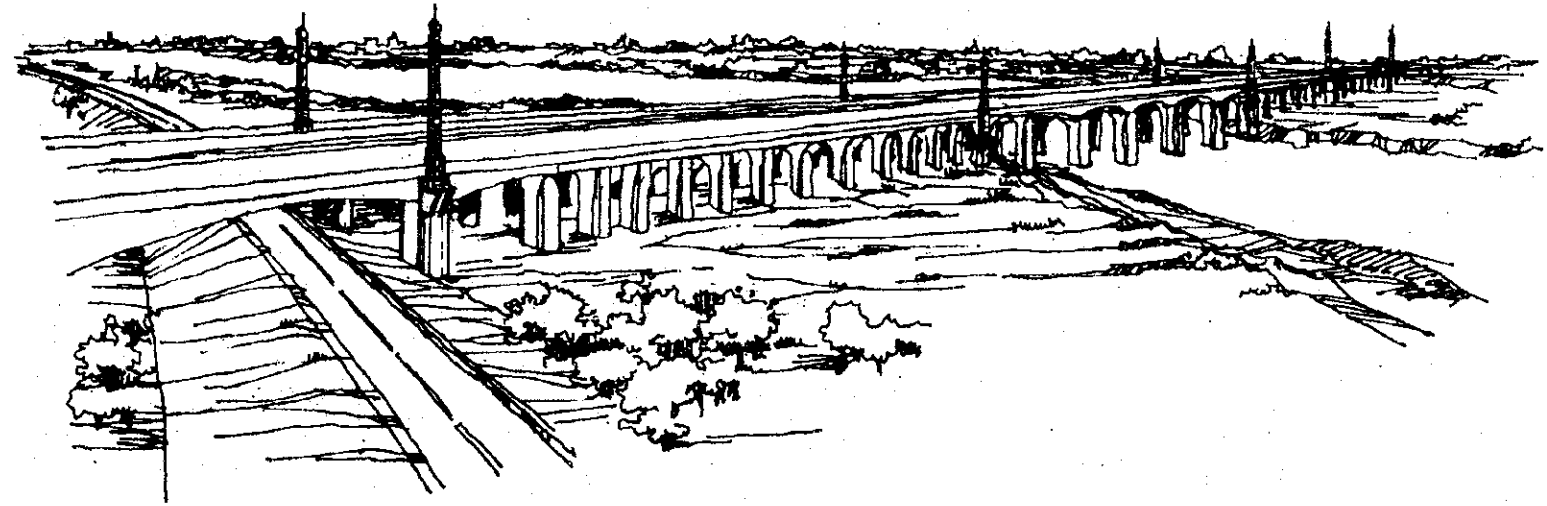
2

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)  
PROJECT MANAGEMENT UNIT THANG LONG  
MINISTRY OF TRANSPORT  
THE SOCIALIST REPUBLIC OF VIET NAM

**THE DETAILED DESIGN OF  
THE RED RIVER BRIDGE (THANH TRI BRIDGE)  
CONSTRUCTION PROJECT  
IN THE SOCIALIST REPUBLIC OF VIET NAM**

FINAL REPORT

VOLUME XI : DRAWINGS  
〈 PACKAGE - 4 〉



June 2000

PACIFIC CONSULTANTS INTERNATIONAL



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# **A. GENERAL**

THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. MATSUDA
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH THY BRIDGE) CONSTRUCTION PROJECT	COMPLETION PACIFIC CONSULTANTS INTERNATIONAL	SIGNATURE <i>[Signature]</i>
		DATE 2000. 3. 14

# DRAWING SCHEDULE

PACKAGE 4	SCALE	DRAWING No. A--1	SHEET No.
DRAWING SCHEDULE			

## A. GENERAL

- A-1 DRAWING SCHEDULE
- A-2 PROJECT LOCATION MAP

## B. DETAILS OF INFRASTRUCTURE

### B-1 LOCATION - X1

- B-1-1 GROUND PLAN - X1
- B-1-2 GENERAL ARRANGEMENT - X1
- B-1-3 ARRANGEMENT OF LEVELLING - X1
- B-1-4 ARRANGEMENT OF TRAFFIC - X1
- B-1-5 ARRANGEMENT OF POWER SUPPLY - X1
- B-1-6 ARRANGEMENT OF WATER SUPPLY - X1
- B-1-7 ARRANGEMENT OF DRAINAGE - X1

### B-2 LOCATION - X2

- B-2-1 GROUND PLAN - X2
- B-2-2 GENERAL ARRANGEMENT - X2
- B-2-3 ARRANGEMENT OF LEVELLING - X2
- B-2-4 ARRANGEMENT OF TRAFFIC - X2
- B-2-5 ARRANGEMENT OF POWER SUPPLY - X2
- B-2-6 ARRANGEMENT OF WATER SUPPLY - X2
- B-2-7 ARRANGEMENT OF DRAINAGE - X2

### B-3 LOCATION - X3

- B-3-1 GROUND PLAN - X3
- B-3-2 GENERAL ARRANGEMENT - X3
- B-3-3 ARRANGEMENT OF LEVELLING - X3
- B-3-4 ARRANGEMENT OF TRAFFIC - X3
- B-3-5 ARRANGEMENT OF POWER SUPPLY - X3
- B-3-6 ARRANGEMENT OF WATER SUPPLY - X3
- B-3-7 ARRANGEMENT OF DRAINAGE - X3

### B-4 LOCATION - X4

- B-4-1 GROUND PLAN - X4
- B-4-2 GENERAL ARRANGEMENT - X4
- B-4-3 ARRANGEMENT OF LEVELLING - X4
- B-4-4 ARRANGEMENT OF TRAFFIC - X4
- B-4-5 ARRANGEMENT OF POWER SUPPLY - X4
- B-4-6 ARRANGEMENT OF WATER SUPPLY - X4
- B-4-7 ARRANGEMENT OF DRAINAGE - X4

### B-5 LOCATION - X5

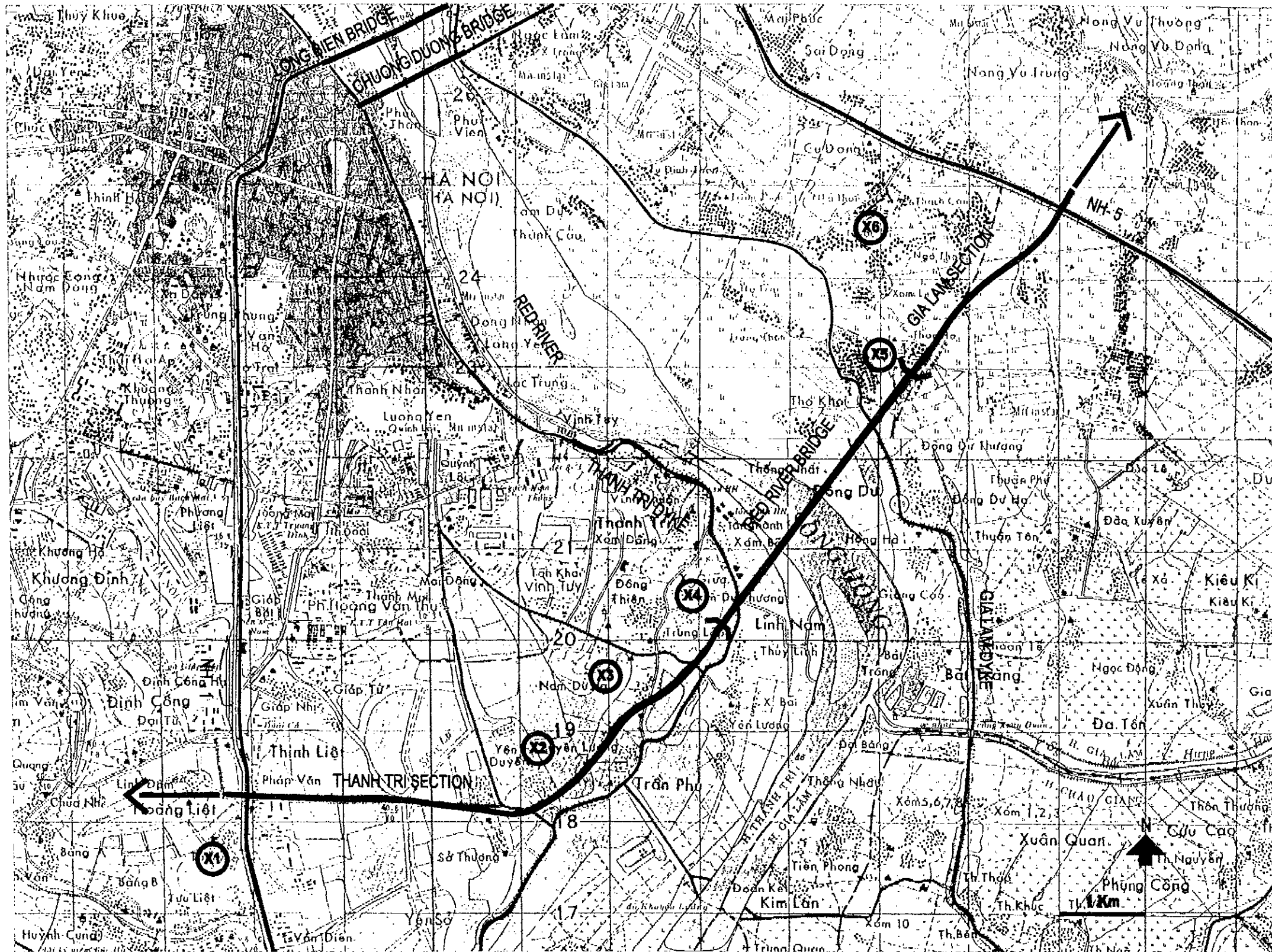
- B-5-1 GROUND PLAN - X5
- B-5-2 GENERAL ARRANGEMENT - X5
- B-5-3 ARRANGEMENT OF LEVELLING - X5
- B-5-4 ARRANGEMENT OF TRAFFIC - X5
- B-5-5 ARRANGEMENT OF POWER SUPPLY - X5
- B-5-6 ARRANGEMENT OF WATER SUPPLY - X5
- B-5-7 ARRANGEMENT OF DRAINAGE - X5

### B-6 LOCATION - X6

- B-6-1 GROUND PLAN - X6
- B-6-2 GENERAL ARRANGEMENT - X6
- B-6-3 ARRANGEMENT OF LEVELLING - X6
- B-6-4 ARRANGEMENT OF TRAFFIC - X6
- B-6-5 ARRANGEMENT OF POWER SUPPLY - X6
- B-6-6 ARRANGEMENT OF WATER SUPPLY - X6
- B-6-7 ARRANGEMENT OF DRAINAGE - X6


THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM TRANH LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. NATAPE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		SIGNATURE <i>[Signature]</i>
PROJECT RED RIVER BRIDGE (HANH TRI BRIDGE) CONSTRUCTION PROJECT	DATE 2008.3.14	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL		

PACKAGE 4	SCALE NOT TO SCALE	DRAWING NO. A-2	SHEET No
LOCATION MAP			



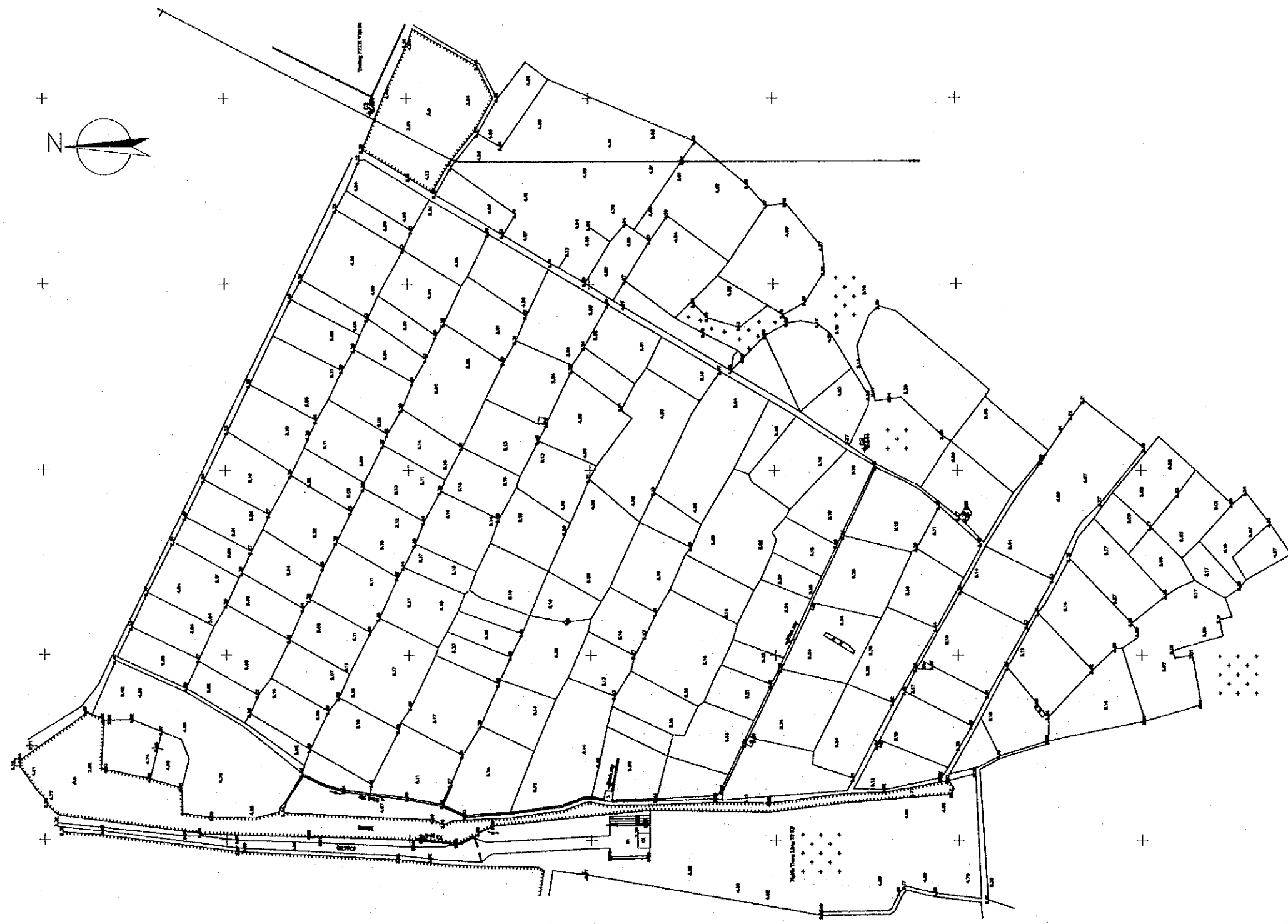


## **B. DETAILS OF INTRASTRUCTURE**

THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE 	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE 2000.3.17	

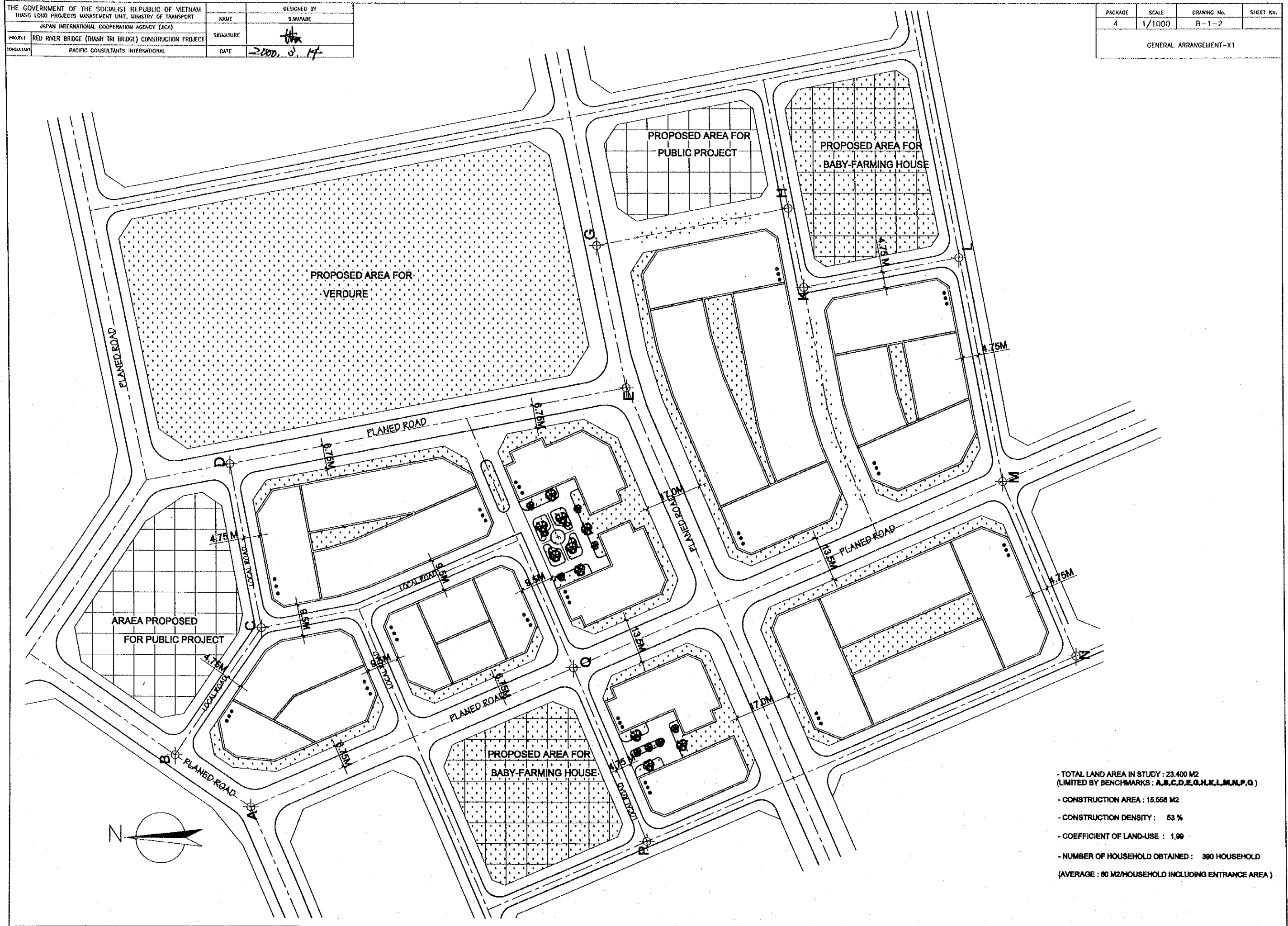
PACKAGE 4	SCALE 1/1000	DRAWING No. B-1-1	SHEET No.
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GROUND PLAN-X1



THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY	S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME	S. WATABE
PROJECT	RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	<i>[Signature]</i>
CONSULTANT	PACIFIC CONSULTANTS INTERNATIONAL	DATE	2000. 3. 14

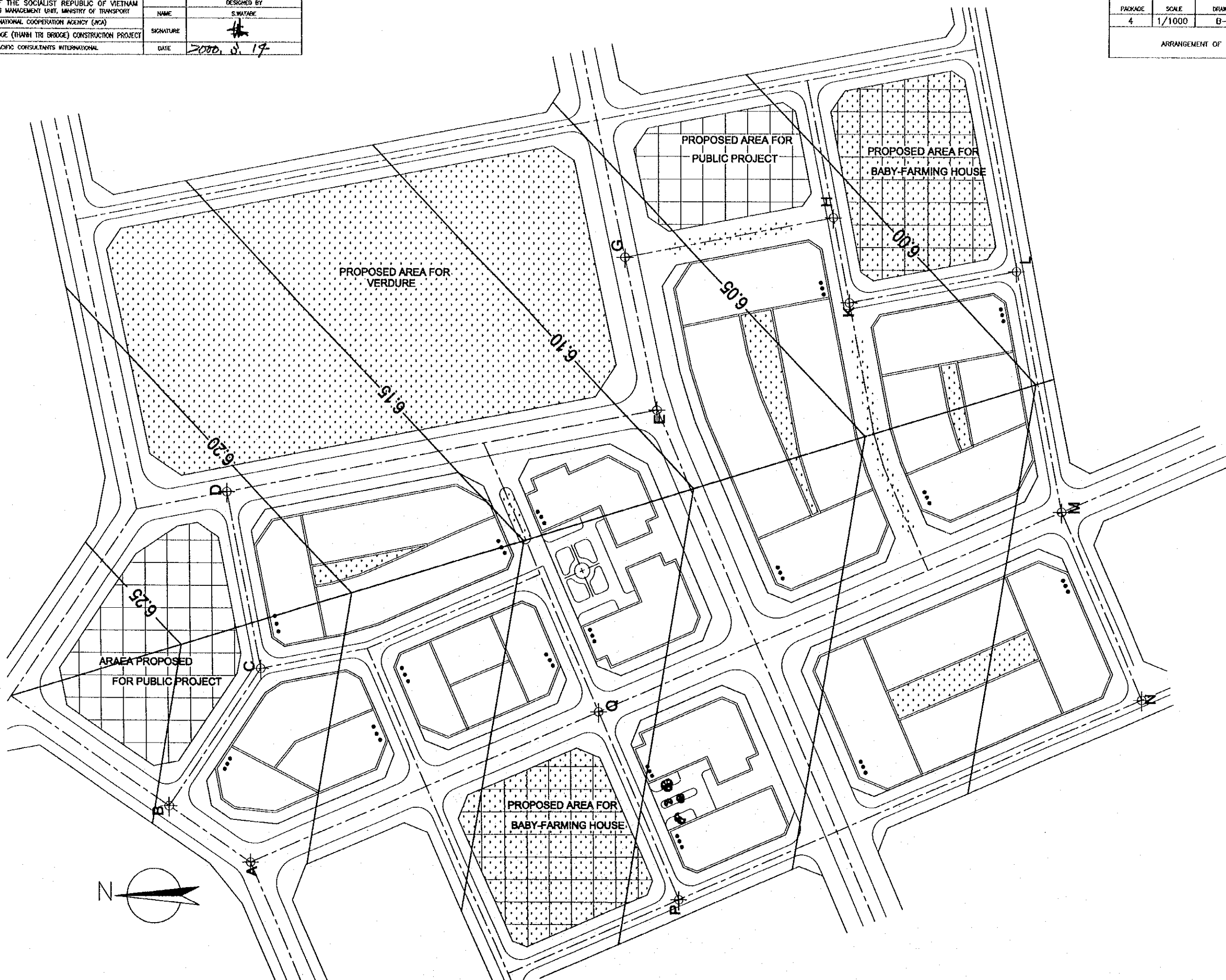
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4	1/1000	B-1-2	
GENERAL ARRANGEMENT-X1			




- TOTAL LAND AREA IN STUDY : 23.400 M<sup>2</sup>  
(LIMITED BY BENCHMARKS : A,B,C,D,E,G,H,K,L,M,N,P,Q)
- CONSTRUCTION AREA : 15.668 M<sup>2</sup>
- CONSTRUCTION DENSITY : 63 %
- COEFFICIENT OF LAND-USE : 1,99
- NUMBER OF HOUSEHOLD OBTAINED : 390 HOUSEHOLD  
(AVERAGE : 60 M<sup>2</sup>/HOUSEHOLD INCLUDING ENTRANCE AREA)

THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. MATSUDA
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE 2000. 03. 17	

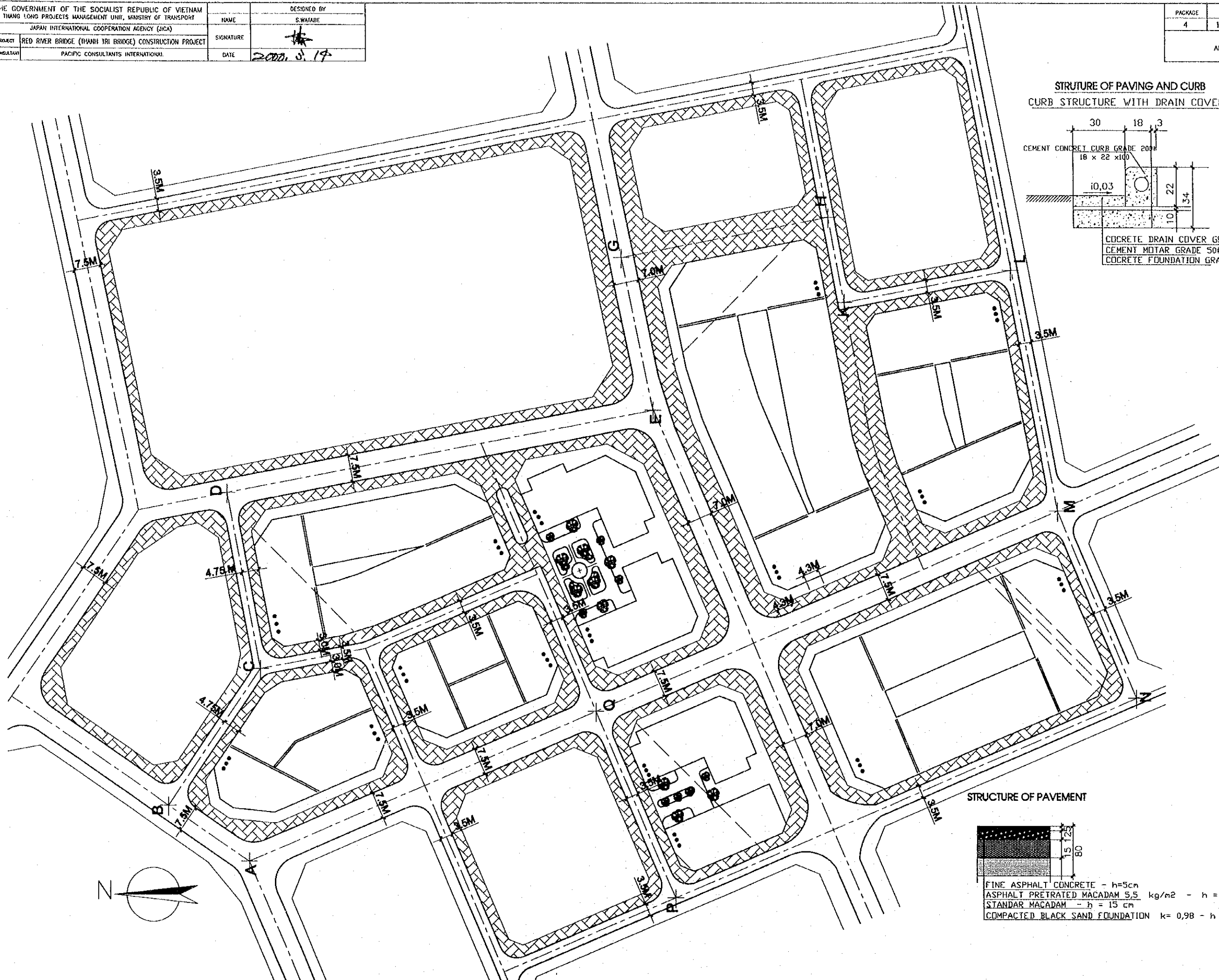
PACKAGE 4	SCALE 1/1000	DRAWING No. B-1-3	SHEET No.
ARRANGEMENT OF LEVELLING			



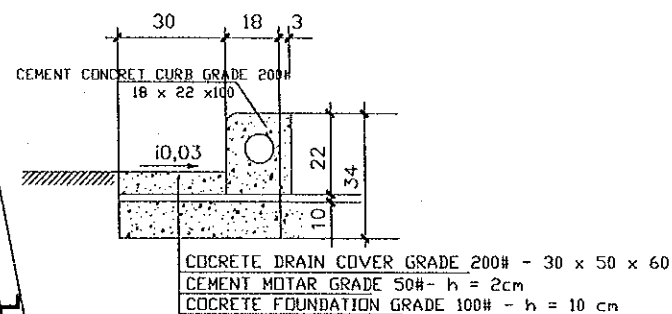
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		DESIGNED BY S. WATABE
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT		SIGNATURE 
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL		DATE 2000.03.17

PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-1-4	

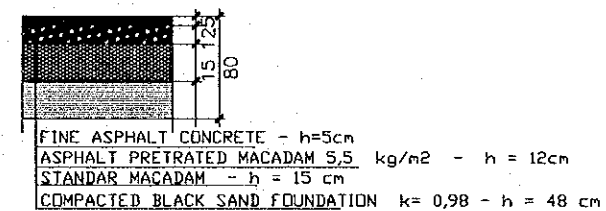
ARRANGEMENT OF TRAFFIC-X1



**STRUCTURE OF PAVING AND CURB**  
CURB STRUCTURE WITH DRAIN COVER 18 x 22 x 100

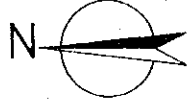
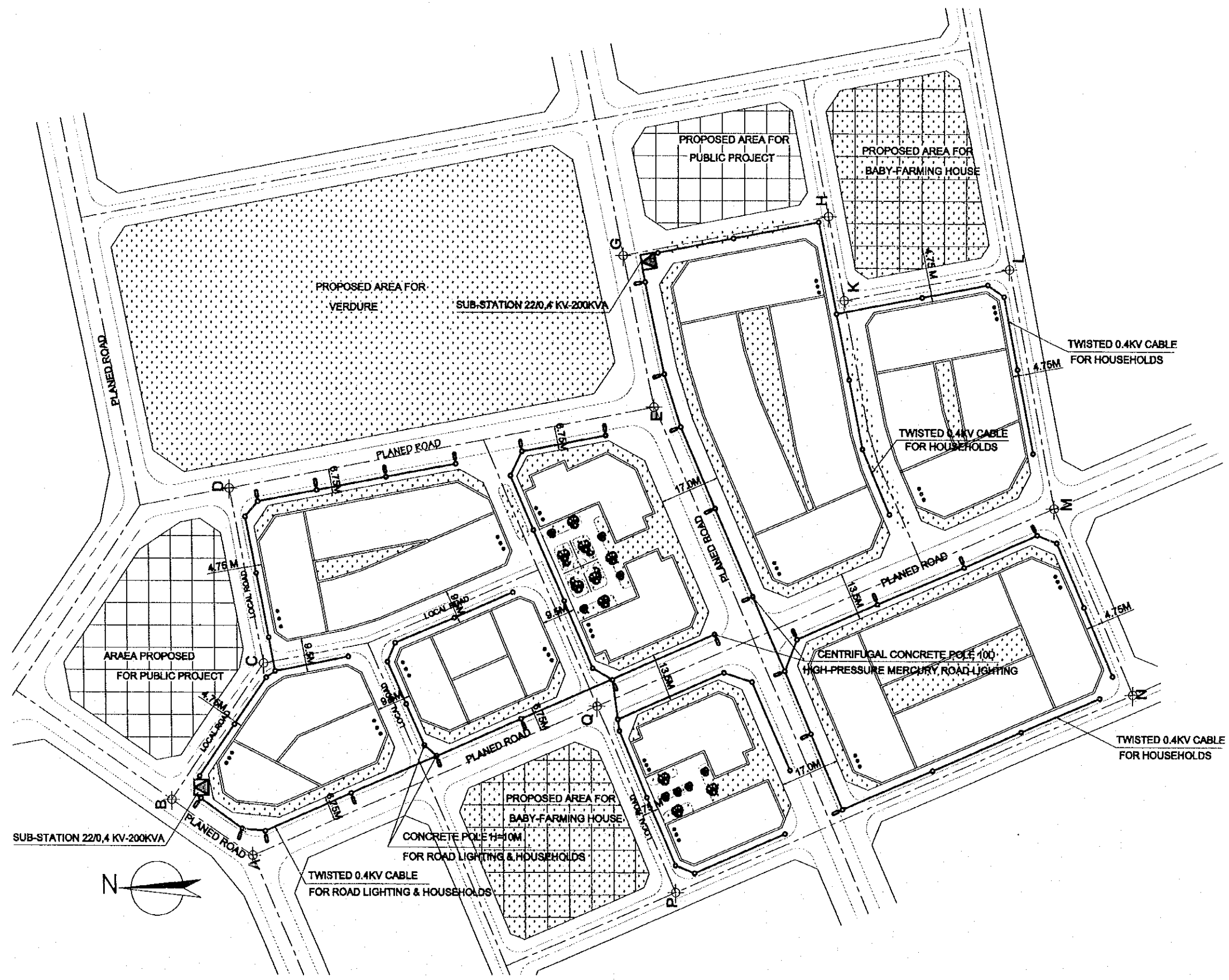


**STRUCTURE OF PAVEMENT**



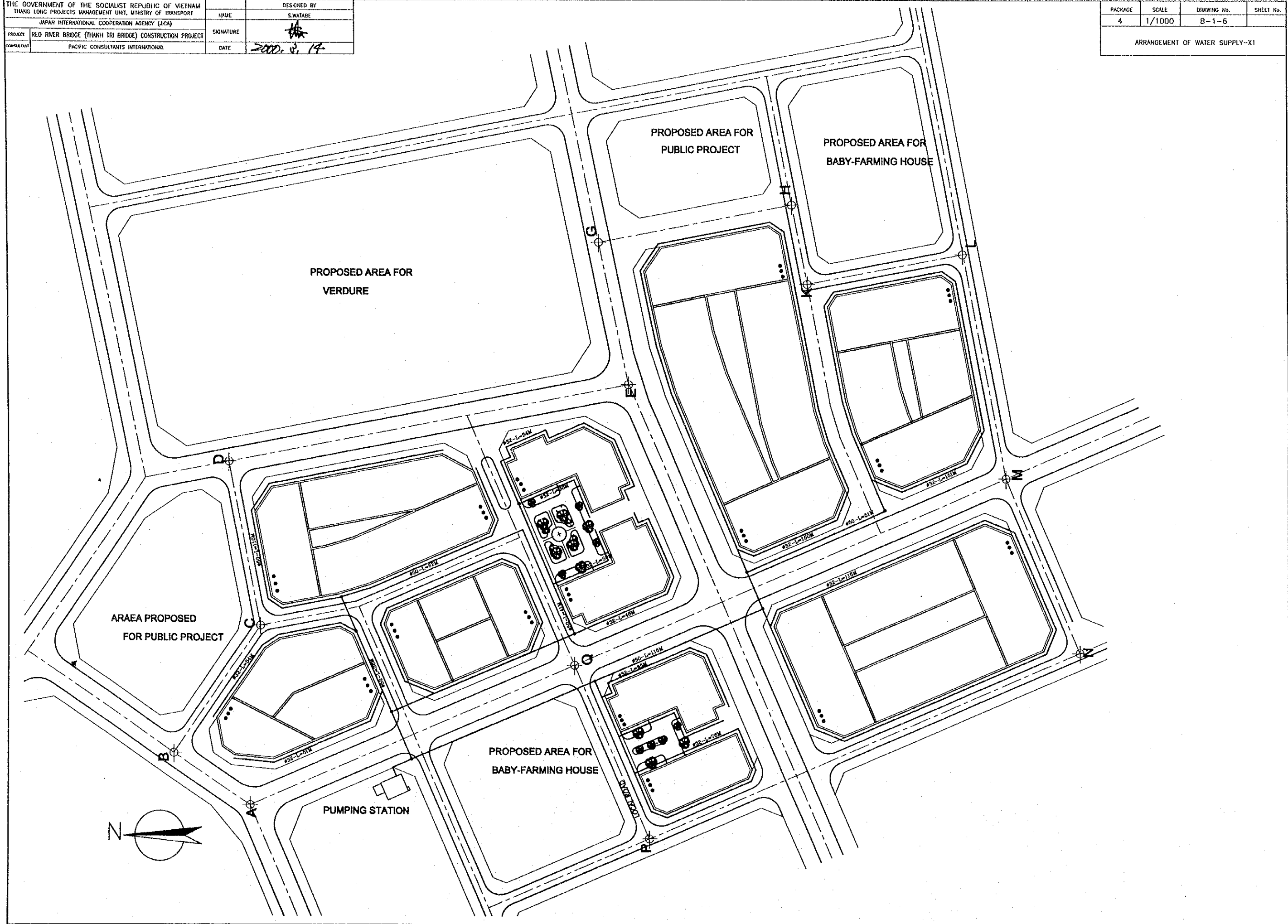
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY NAME S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		SIGNATURE <i>[Signature]</i>
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	DATE 2007. 3. 19	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL		

PACKAGE 4	SCALE 1/1250	DRAWING No. B - 1 - 5	SHEET No.
ARRANGEMENT OF POWER SUPPLY			



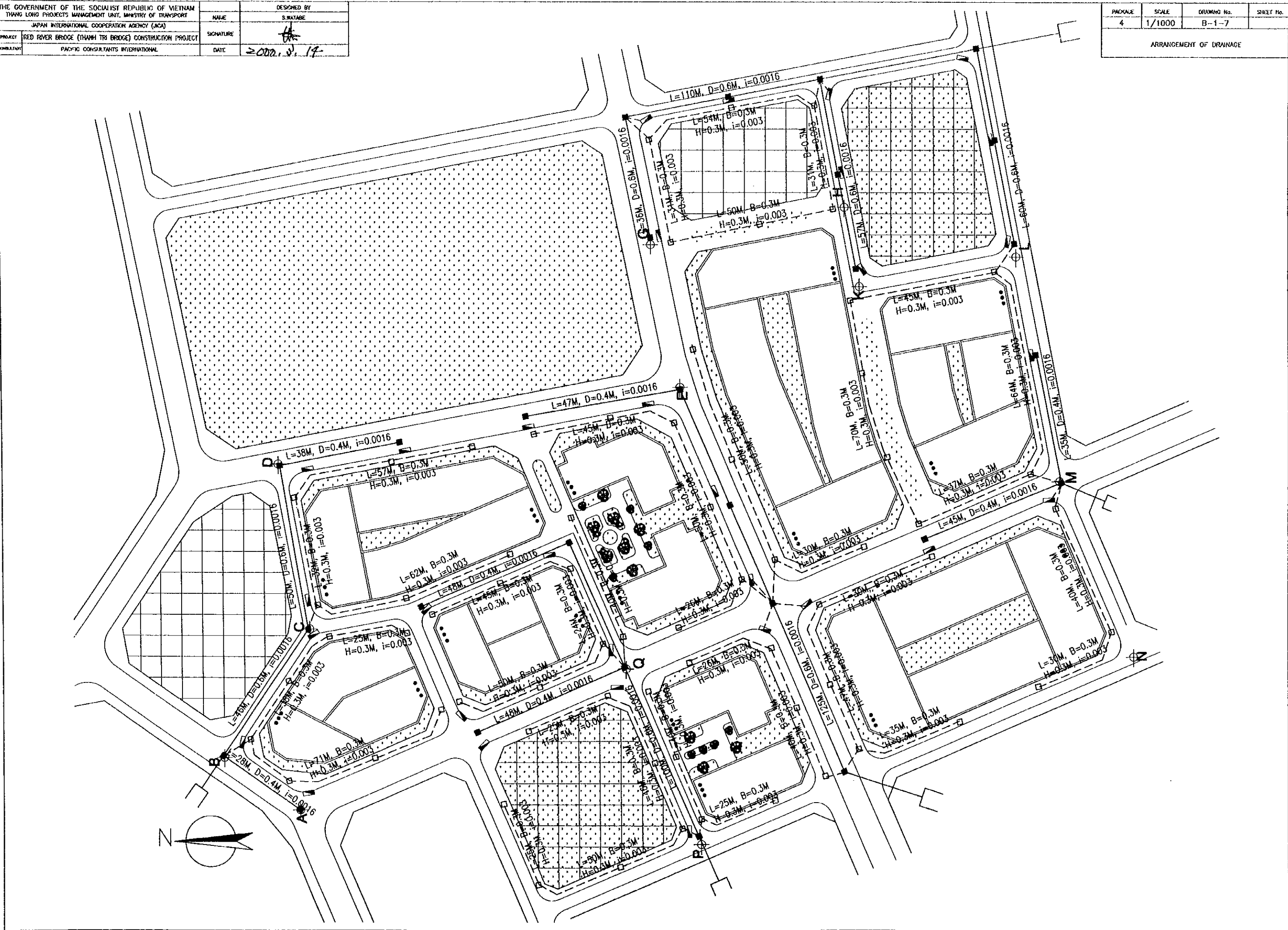
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE <i>[Signature]</i>	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE 2000. 11. 14	

PACKAGE 4	SCALE 1/1000	DRAWING No. B-1-6	SHEET No.
ARRANGEMENT OF WATER SUPPLY-X1			



THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. NAYABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRU BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	<i>[Signature]</i>
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE	2002.8.19

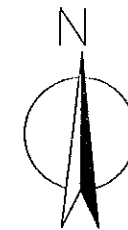
PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-1-7	
ARRANGEMENT OF DRAINAGE			





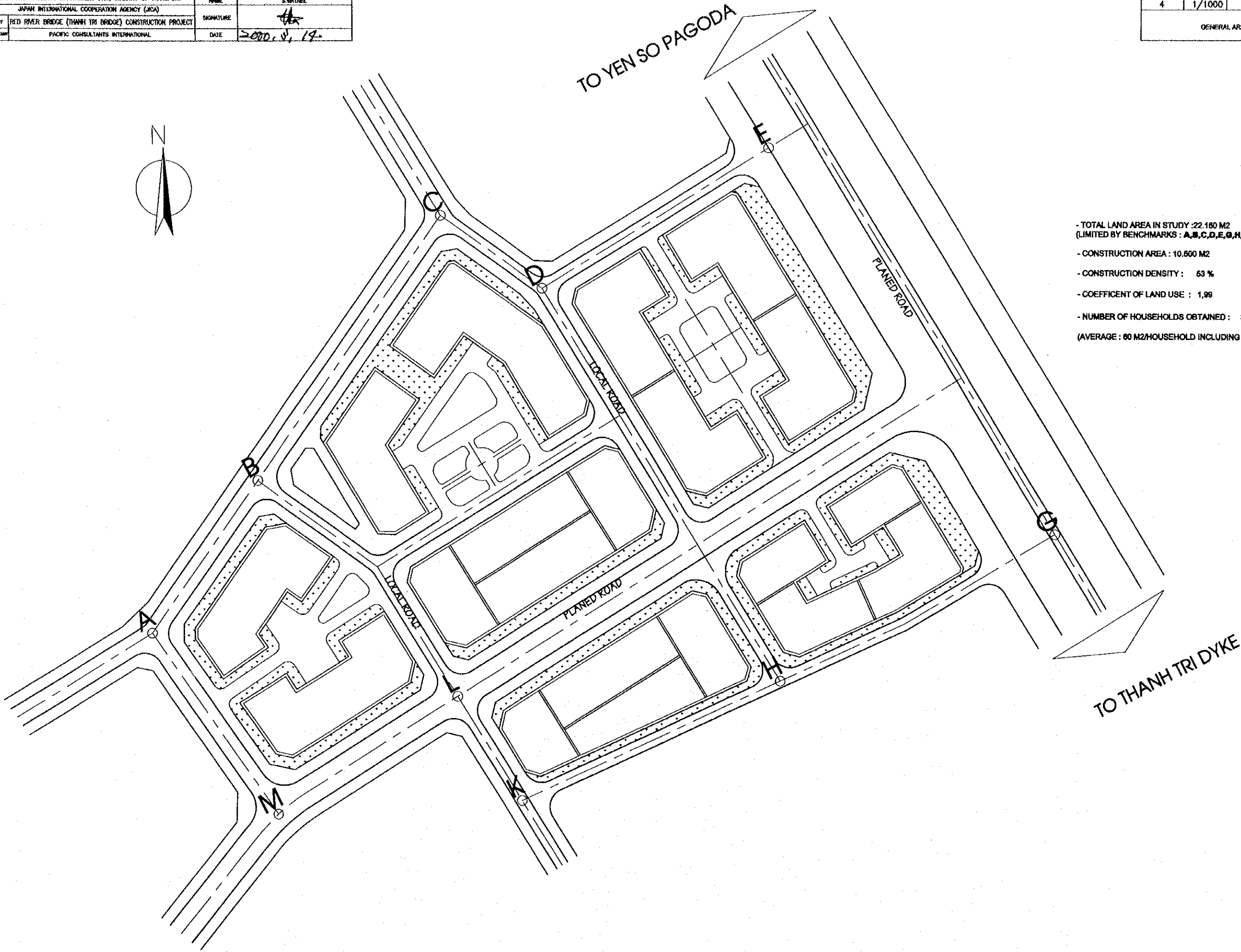
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY NAME	S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		SIGNATURE	
PROJECT	RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	DATE	2000. 11. 14
CONSULTANT	PACIFIC CONSULTANTS INTERNATIONAL		

PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-2-1	
GROUND PLAN-X2			



THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LOANG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME S. WATABE
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE <i>[Signature]</i>	DATE 2000.8.19
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL		

PACKAGE 4	SCALE 1/1000	DRAWING No. B-2-2	SHEET No.
GENERAL ARRANGEMENT			



- TOTAL LAND AREA IN STUDY : 22.160 M<sup>2</sup>  
(LIMITED BY BENCHMARKS : A,B,C,D,E,G,H,K,L,M)
- CONSTRUCTION AREA : 10.500 M<sup>2</sup>
- CONSTRUCTION DENSITY : 53 %
- COEFFICIENT OF LAND USE : 1,98
- NUMBER OF HOUSEHOLDS OBTAINED : 330 HOUSEHOLD  
(AVERAGE : 60 M<sup>2</sup>/HOUSEHOLD INCLUDING ENTRANCE AREA)

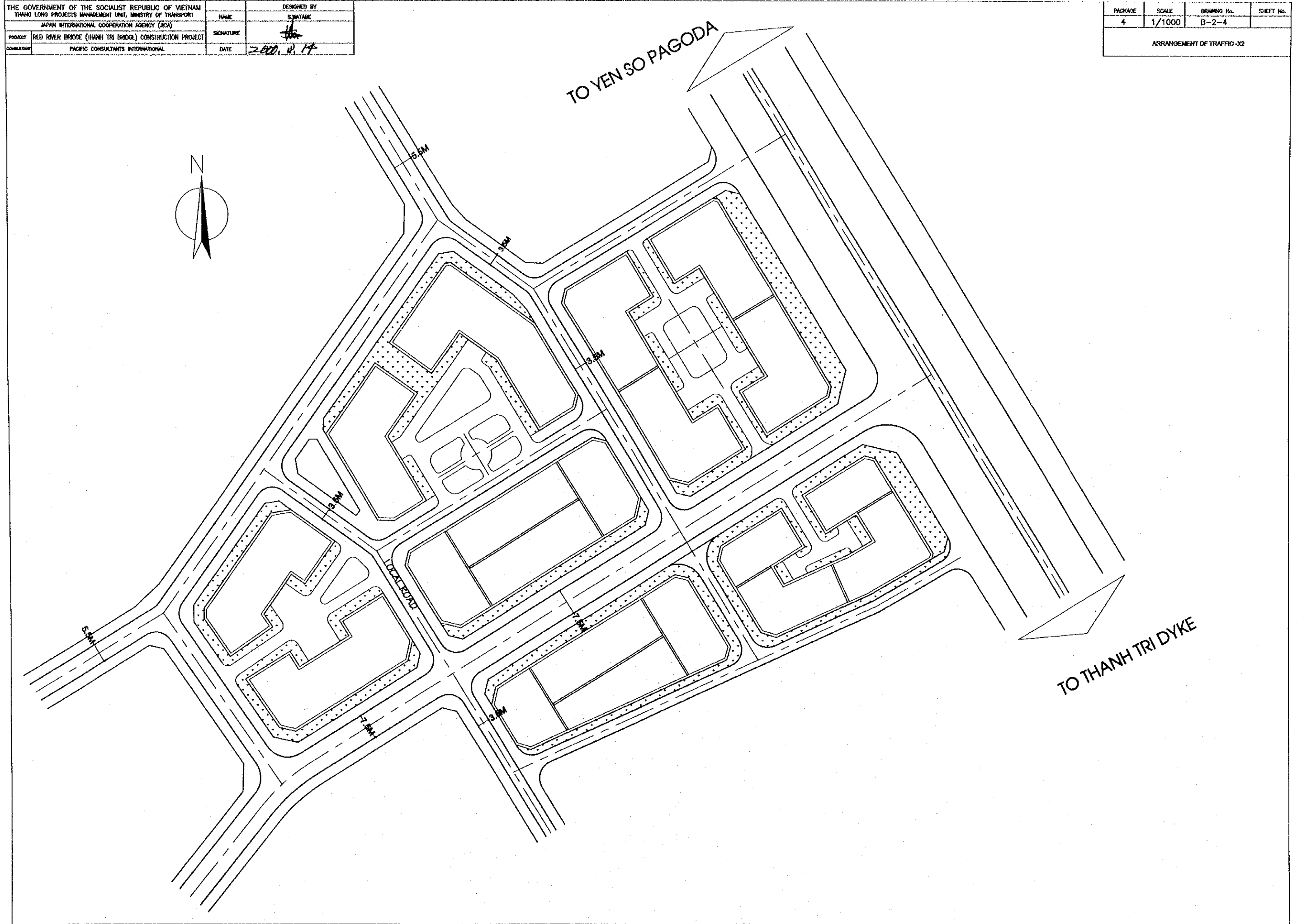
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. MATSUDA
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	<i>[Signature]</i>
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE	2000.11.14


PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-2-3	
ARRANGEMENT OF LEVELLING			



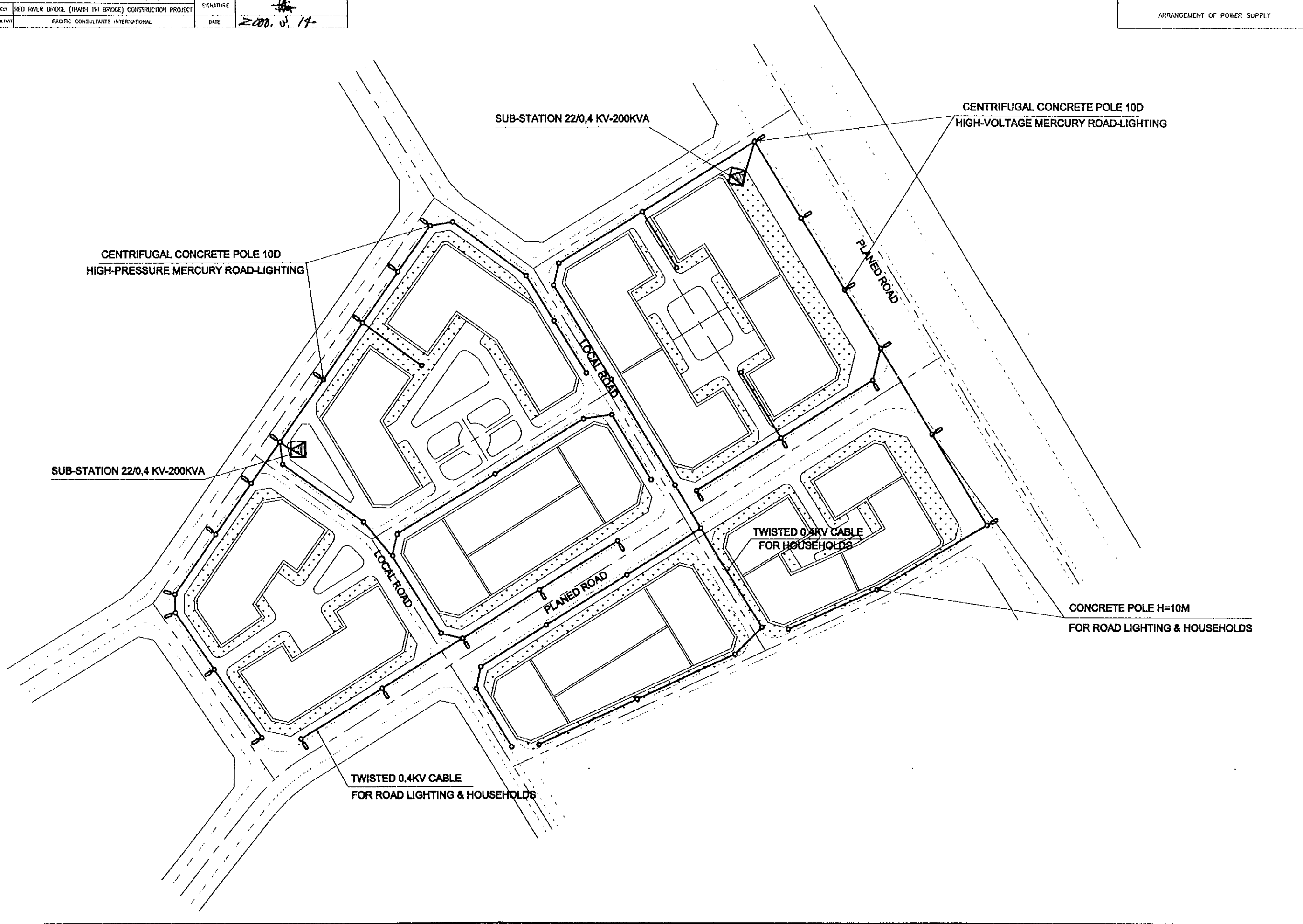
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME	SUNYATAGE
PROJECT	RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	<i>[Signature]</i>
CONSULTANT	PACIFIC CONSULTANTS INTERNATIONAL	DATE	2000.8.14

PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-2-4	
ARRANGEMENT OF TRAFFIC -32			



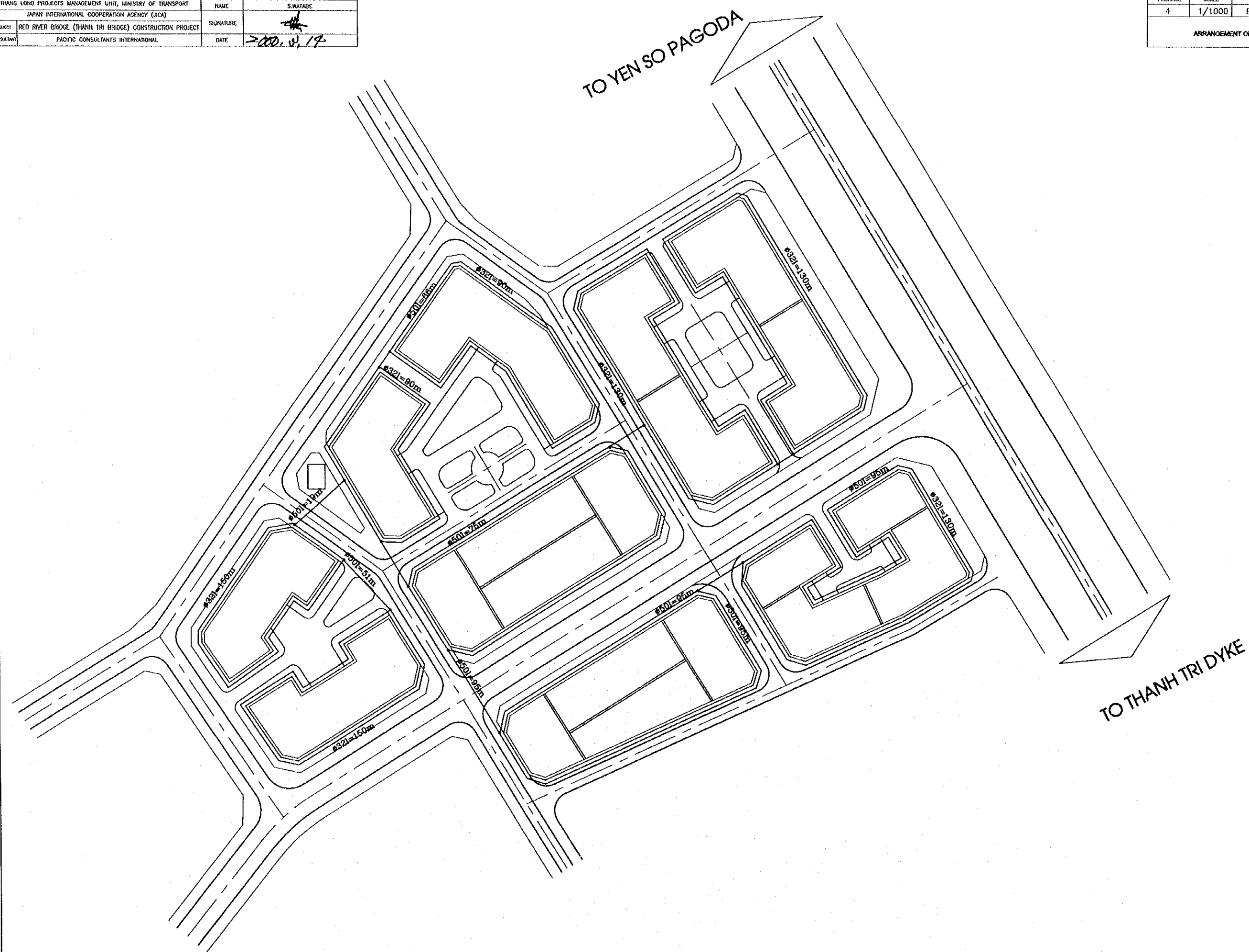
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE	2000.01.19


PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B - 2 - 5	
ARRANGEMENT OF POWER SUPPLY			



THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	
OPERATOR PACIFIC CONSULTANTS INTERNATIONAL	DATE	2000.08.19

PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-2-6	
ARRANGEMENT OF WATER SUPPLY			



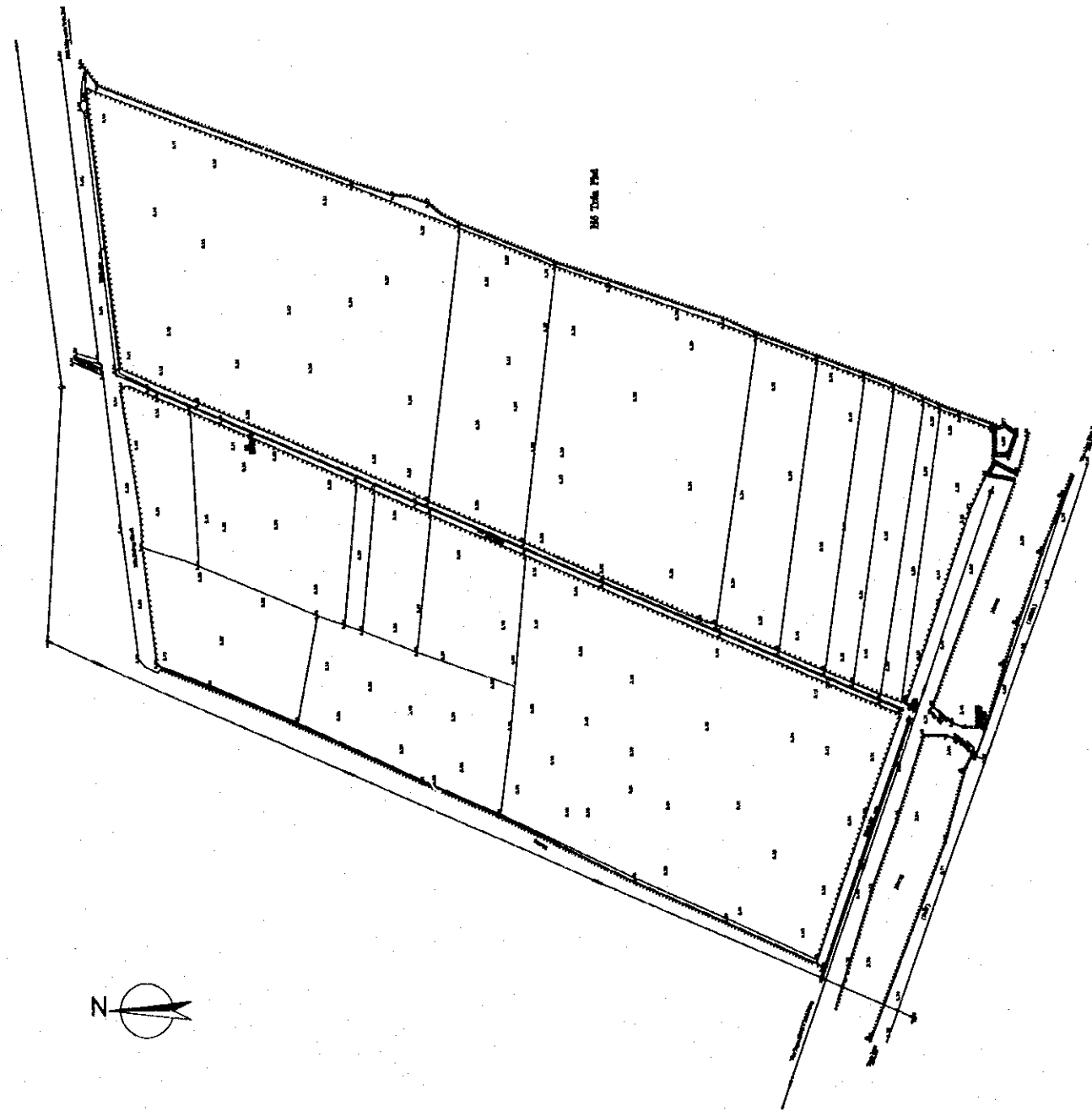
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME	S. NATAPE
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT		SIGNATURE	
PACIFIC CONSULTANTS INTERNATIONAL		DATE	2000.3.17

PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-2-7	
ARRANGEMENT OF DRAINAGE			




THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. WATAGE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE <i>[Signature]</i>	
CONTRACTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE 2000.05.19	

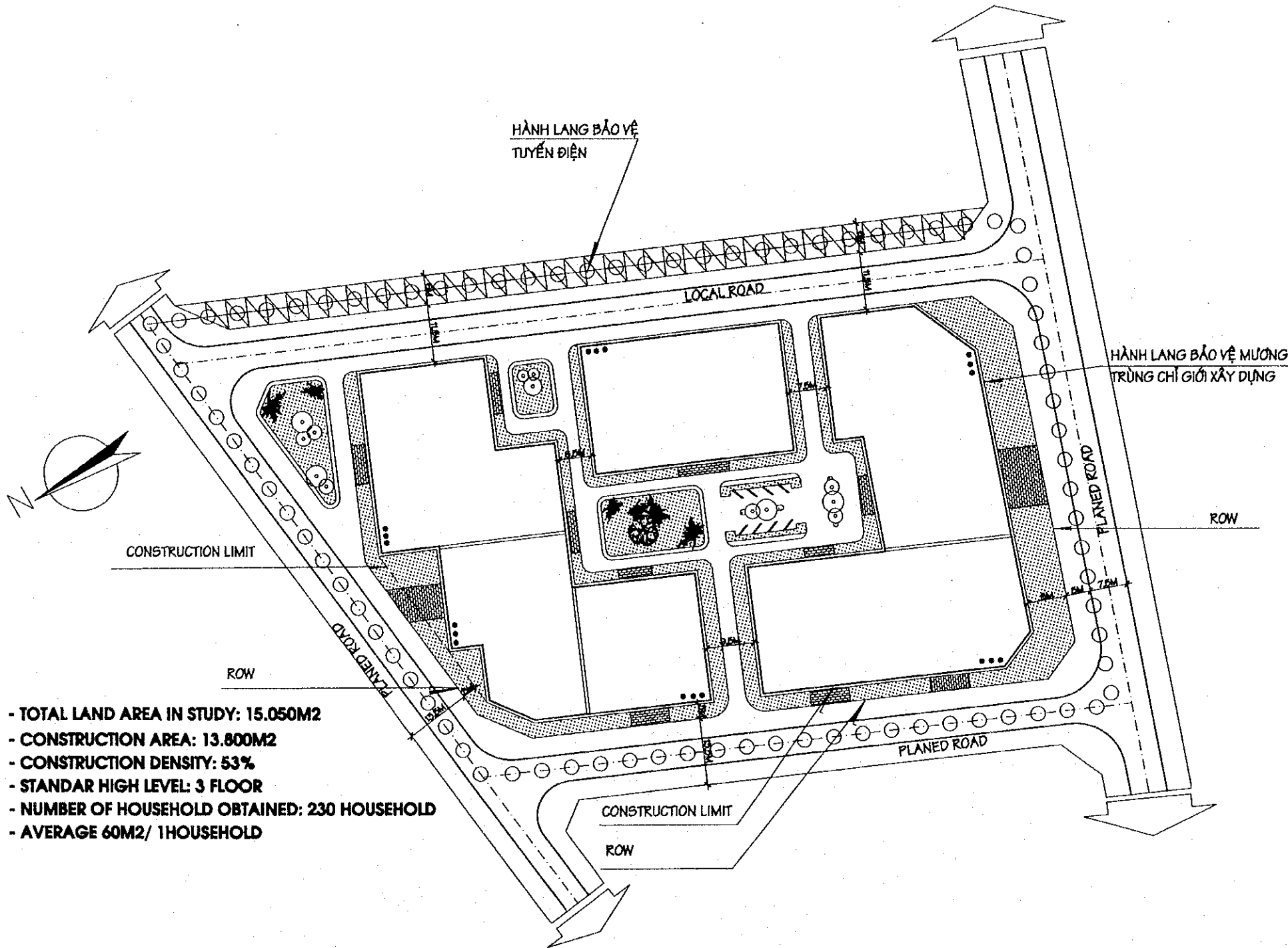
PACKAGE 4	SCALE 1/1000	DRAWING No. B-3-1	SHEET No.
GROUND PLAN -X3			





THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME S. WATABE
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE 	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE 2000. 3. 19	

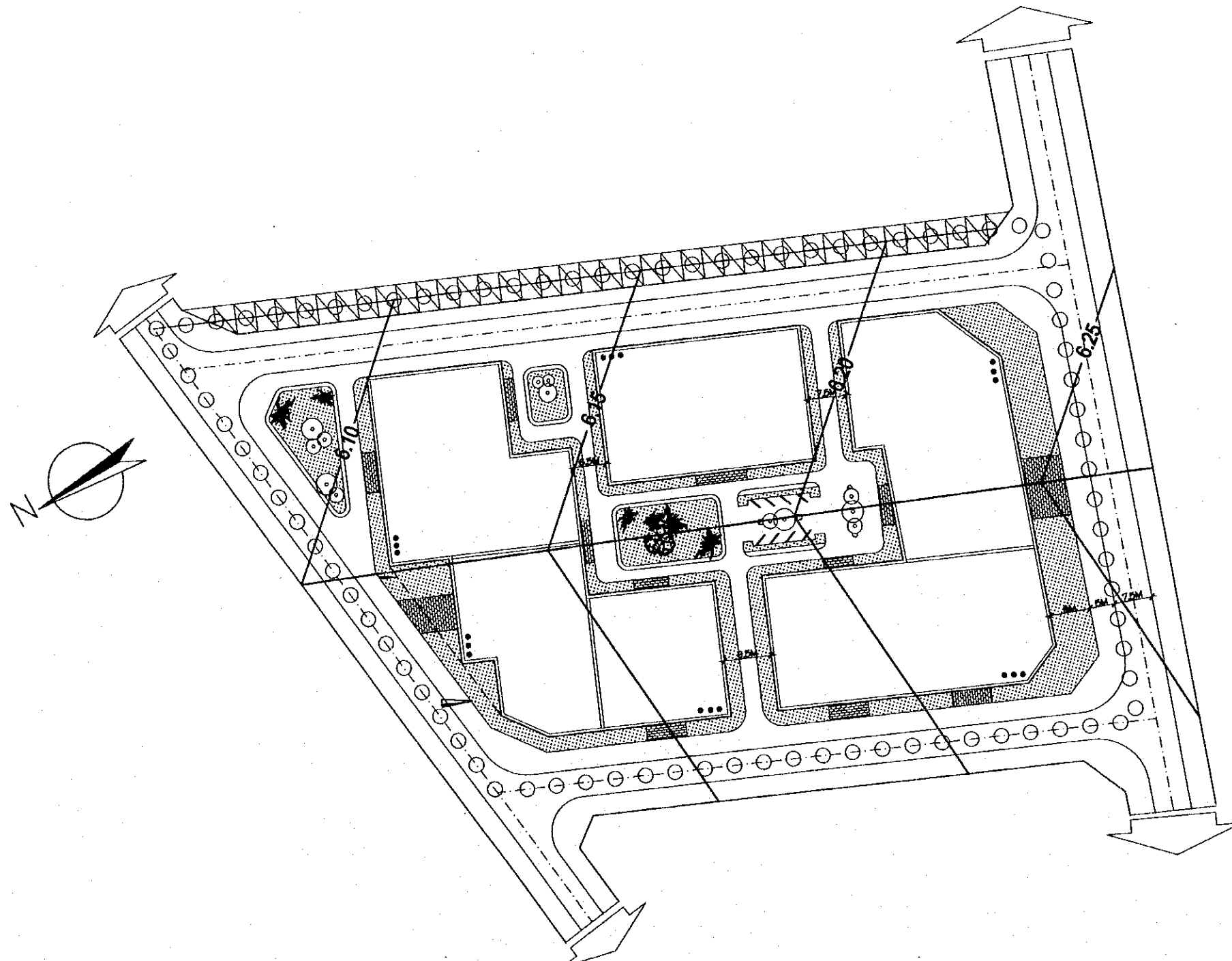
PACKAGE 4	SCALE 1/1000	DRAWING No. B-3-2	SHEET No.
GENERAL ARRANGEMENT X3			



- TOTAL LAND AREA IN STUDY: 15.050M<sup>2</sup>
- CONSTRUCTION AREA: 13.800M<sup>2</sup>
- CONSTRUCTION DENSITY: 53%
- STANDAR HIGH LEVEL: 3 FLOOR
- NUMBER OF HOUSEHOLD OBTAINED: 230 HOUSEHOLD
- AVERAGE 60M<sup>2</sup>/ 1HOUSEHOLD

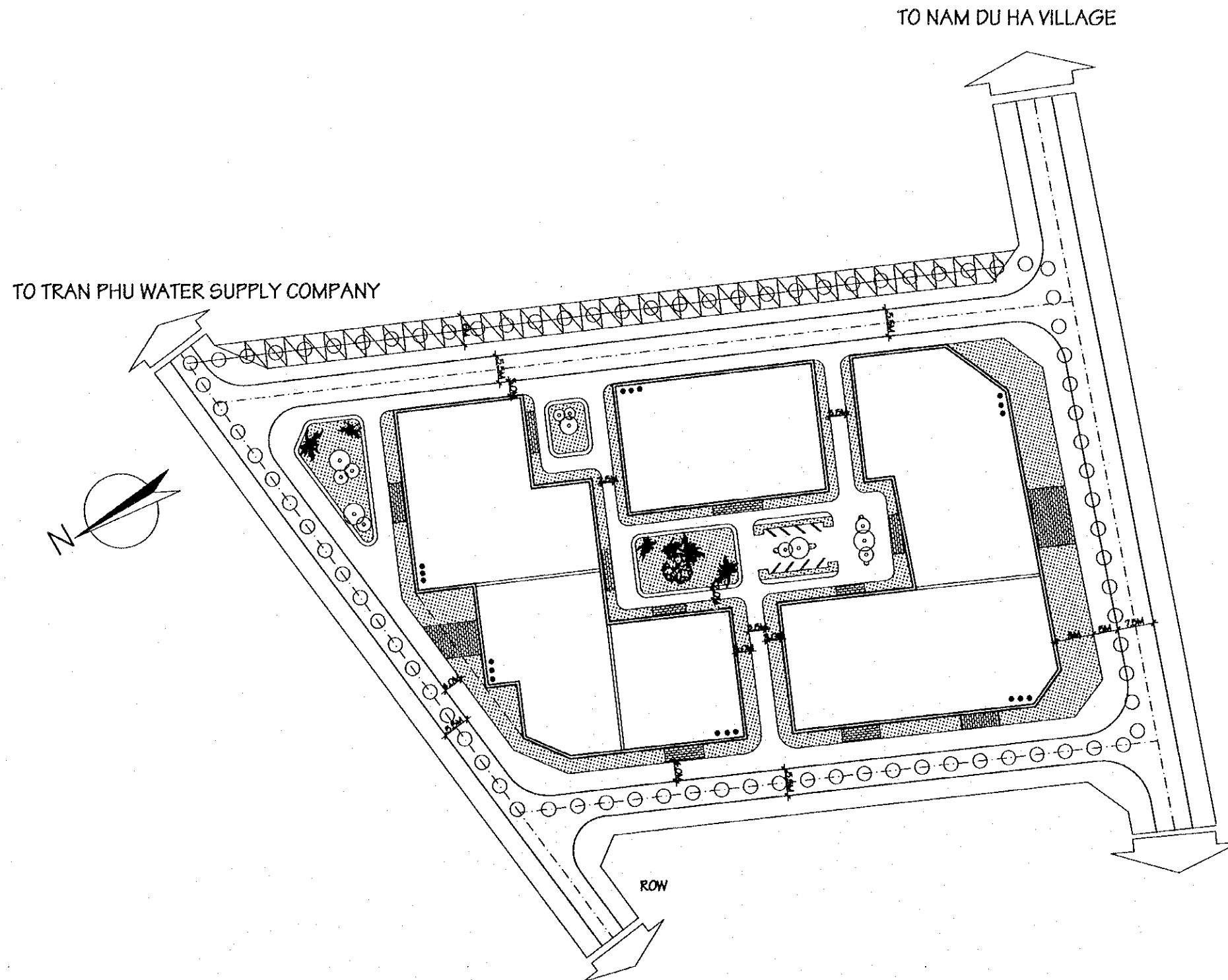
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE <i>[Signature]</i>	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE 2000. 8. 14	

PACKAGE 4	SCALE 1/1000	DRAWING No. B-3-3	SHEET No.
ARRANGEMENT OF LEVELLING			



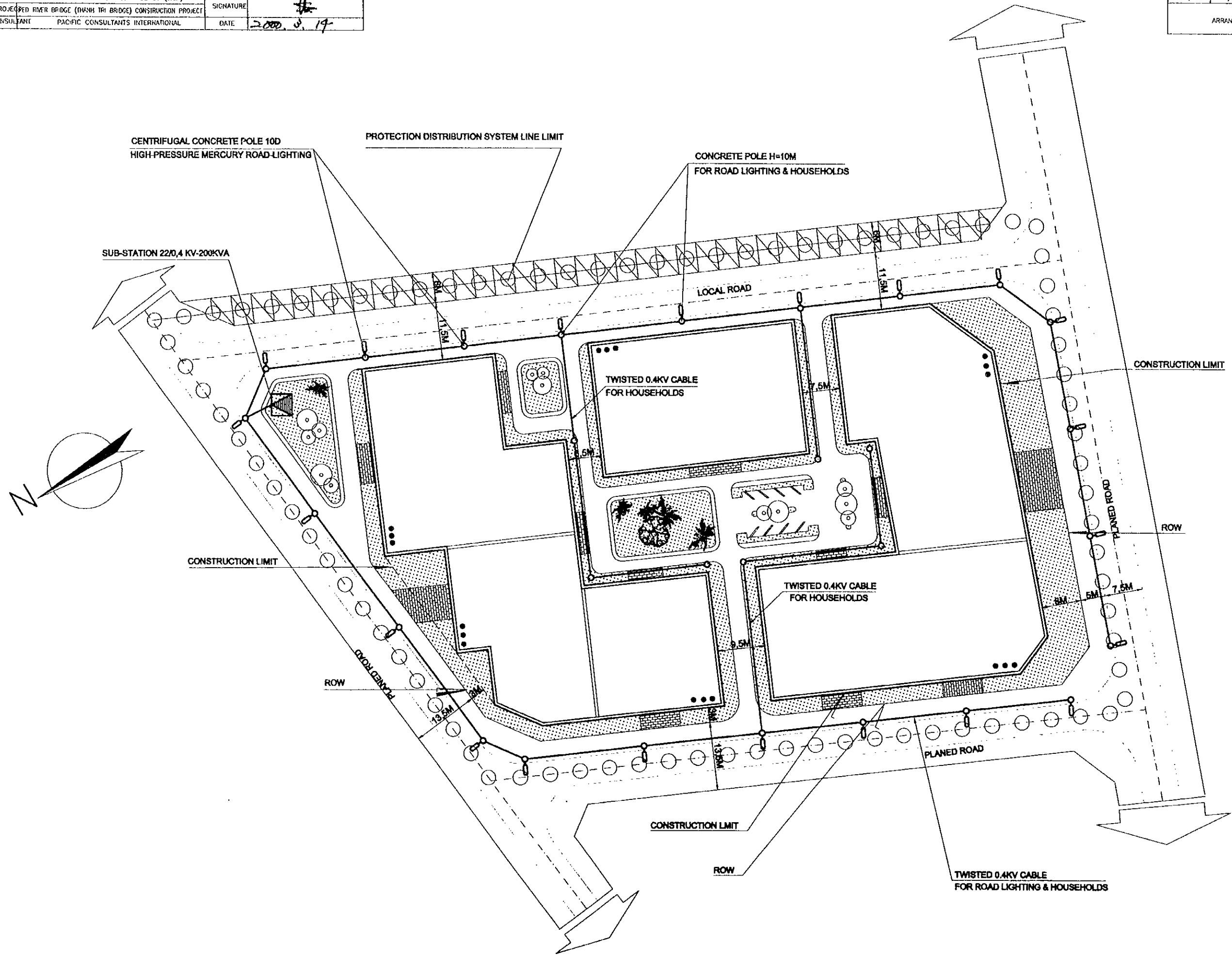
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM TRUNG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME S. WATABE
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE <i>[Signature]</i>	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE 2000. 8. 14	


PACKAGE 4	SCALE 1/1000	DRAWING No. B-3-4	SHEET No.
ARRANGEMENT OF TRAFFIC			



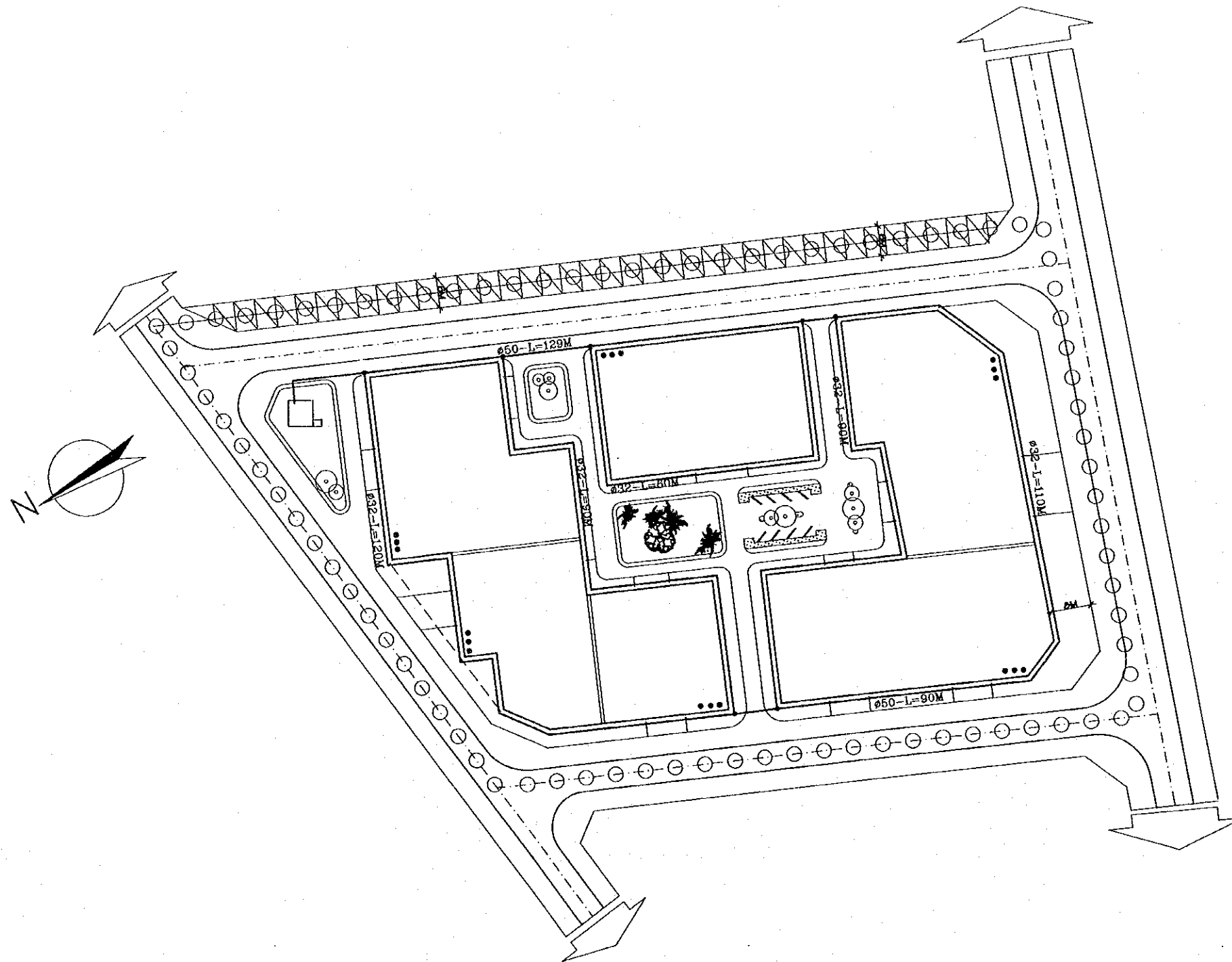
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LICH PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORTATION	DESIGNED BY S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SIGNATURE <i>[Signature]</i>
PROJECTED RIVER BRIDGE (THANH THI BRIDGE) CONSTRUCTION PROJECT	DATE 2000.3.19
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	

PACKAGE	SCALE	DRAWING No.	SHEET No
4	1/1000	B - 3 - 5	
ARRANGEMENT OF POWER SUPPLY			



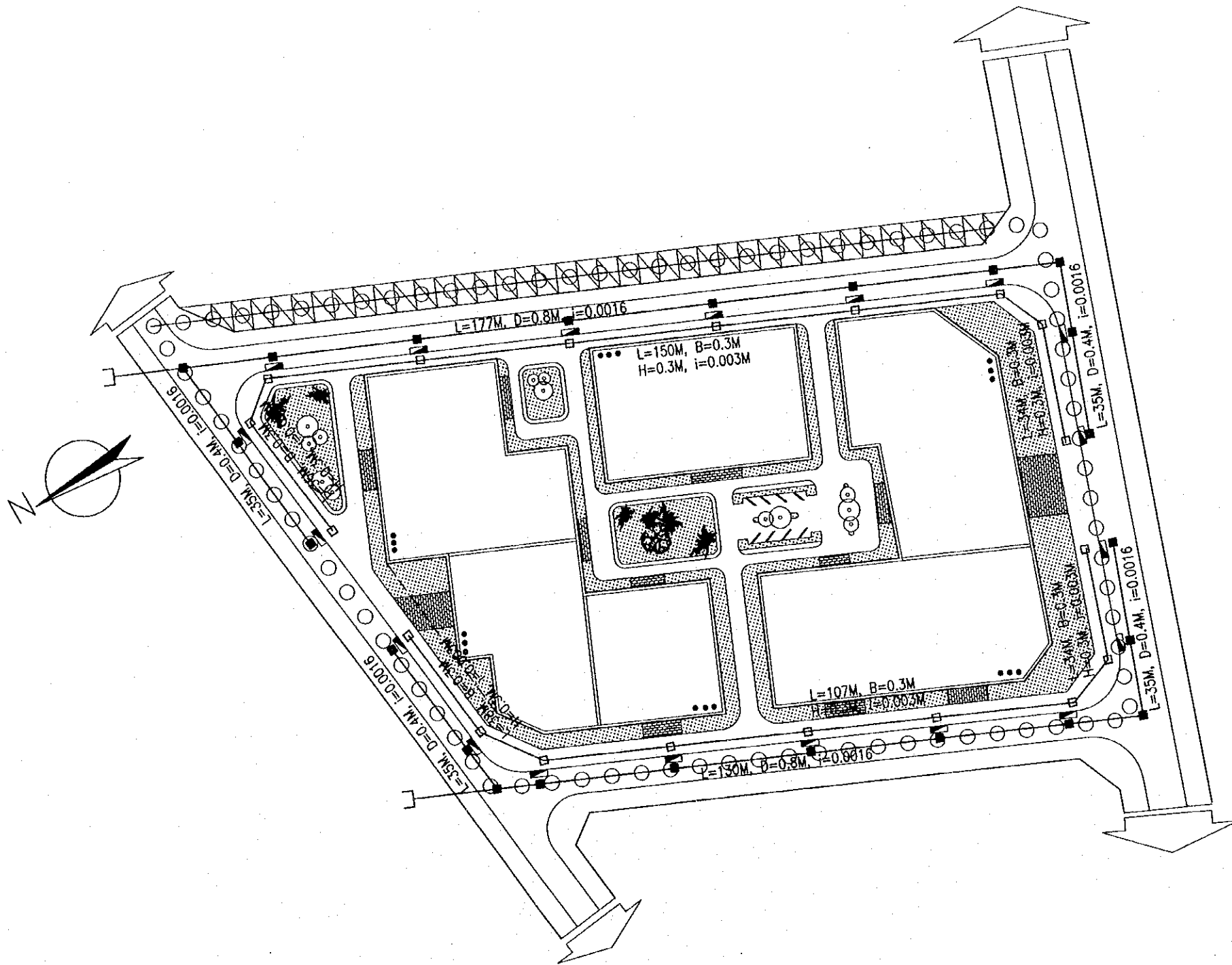
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM HUNG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY NAME S. WAKABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		SIGNATURE 
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	DATE 2000. 02. 17	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL		


PACKAGE 4	SCALE 1/1000	DRAWING No. B-3-6	SHEET No.
ARRANGEMENT OF WATER SUPPLY-23			



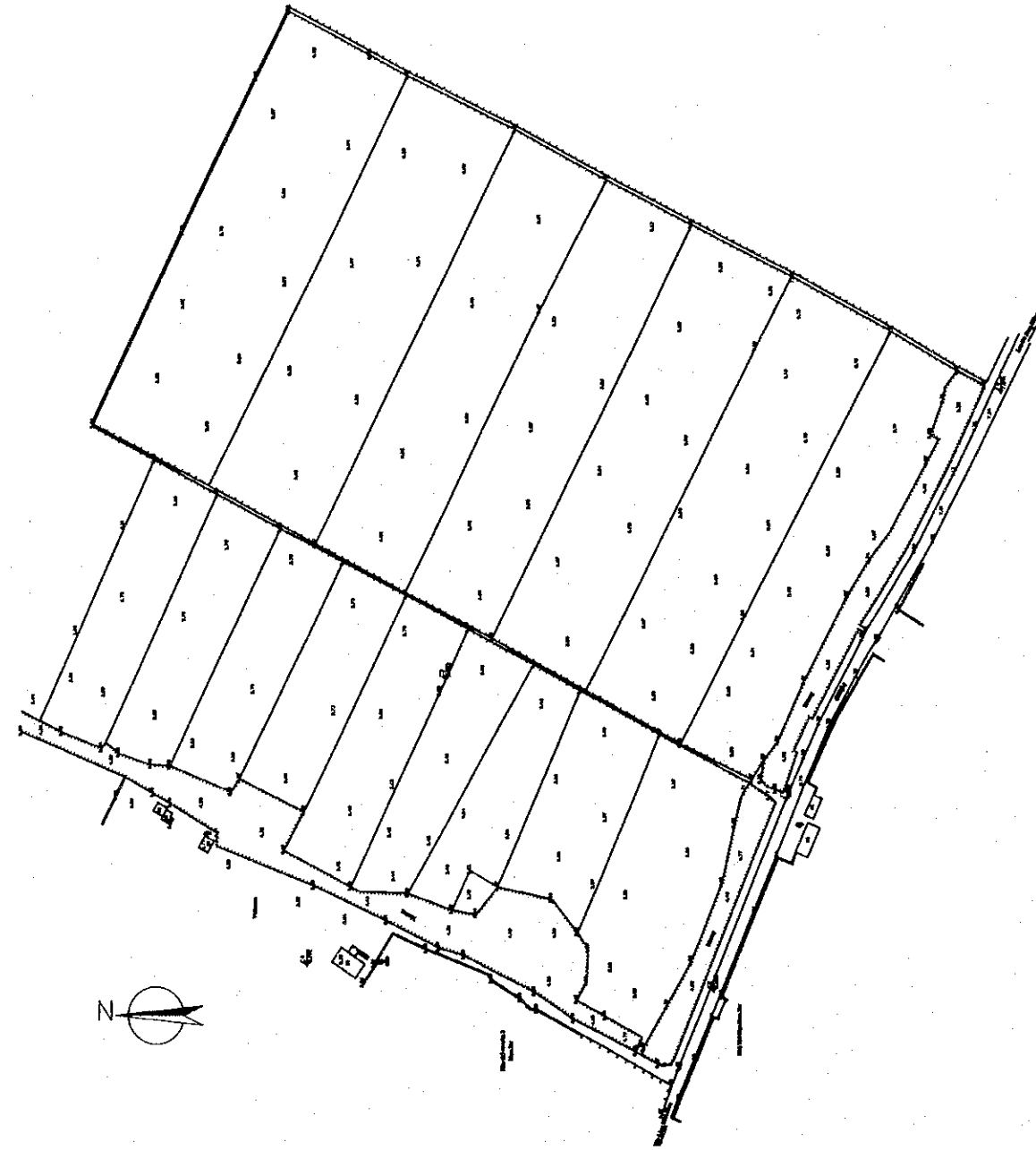
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME S. WATABE
PROJECT	RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE <i>[Signature]</i>
CONSULTANT	PACIFIC CONSULTANTS INTERNATIONAL	DATE 2000. 8. 17

PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-3-7	
ARRANGEMENT OF DRAINAGE			



THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME S. WATABE
PROJECT	RED RIVER BRIDGE (HANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE 
CONSULTANT	PACIFIC CONSULTANTS INTERNATIONAL	DATE 2000. 8. 17

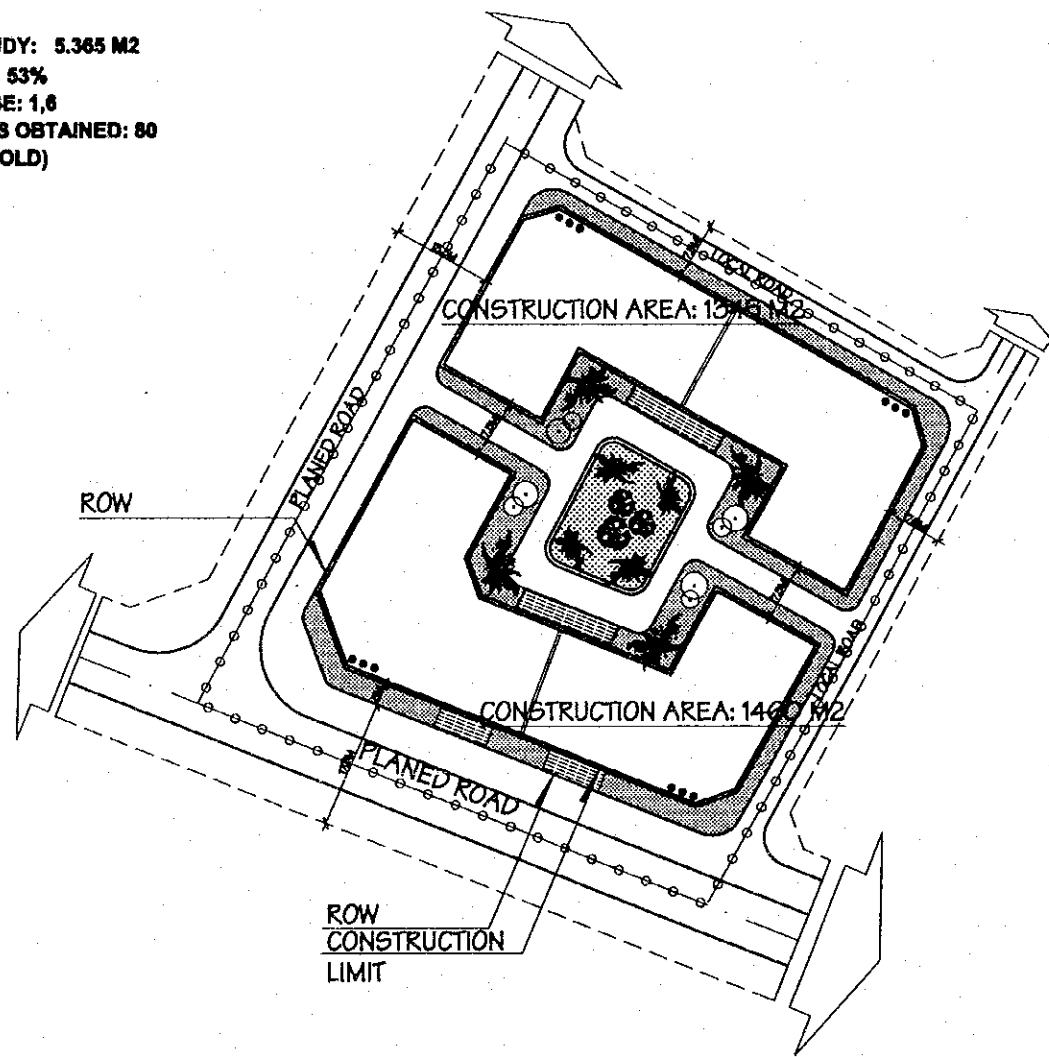
PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-4-1	
GROUND PLAN-X4			



THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY	S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME	S. WATABE
PROJECT	RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	<i>[Signature]</i>
CONSULTANT	PACIFIC CONSULTANTS INTERNATIONAL	DATE	2000. 3. 14

PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-4-2	
GENERAL ARRANGEMENT-X4			

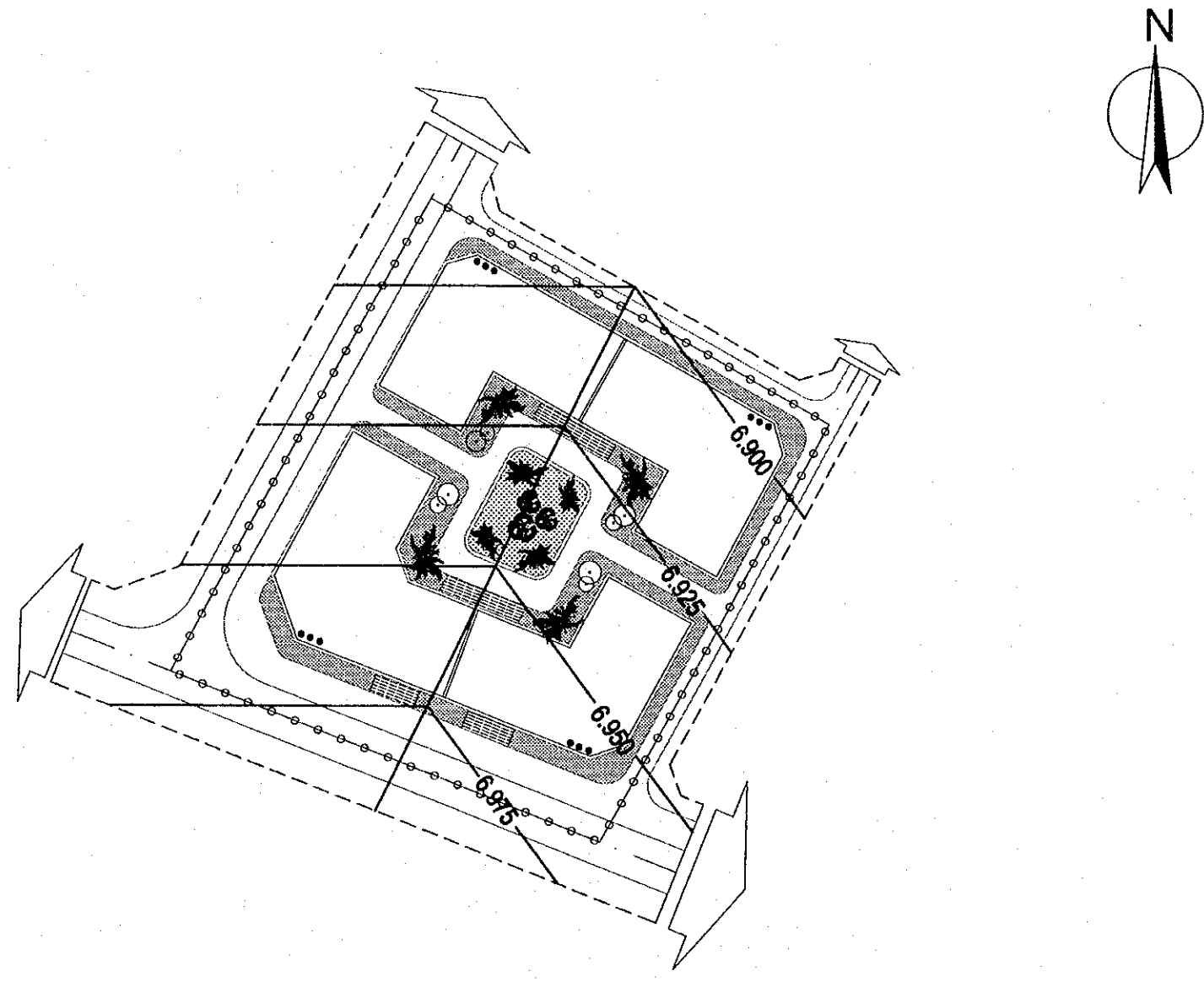
- + TOTAL LAND AREA IN STUDY: 5.365 M2
- + CONSTRUCTION DENSITY: 53%
- + COEFFICIENT OF LAND USE: 1,8
- + NUMBER OF HOUSEHOLDS OBTAINED: 80  
(AVERAGE 60 M2/ 1HOUSEHOLD)





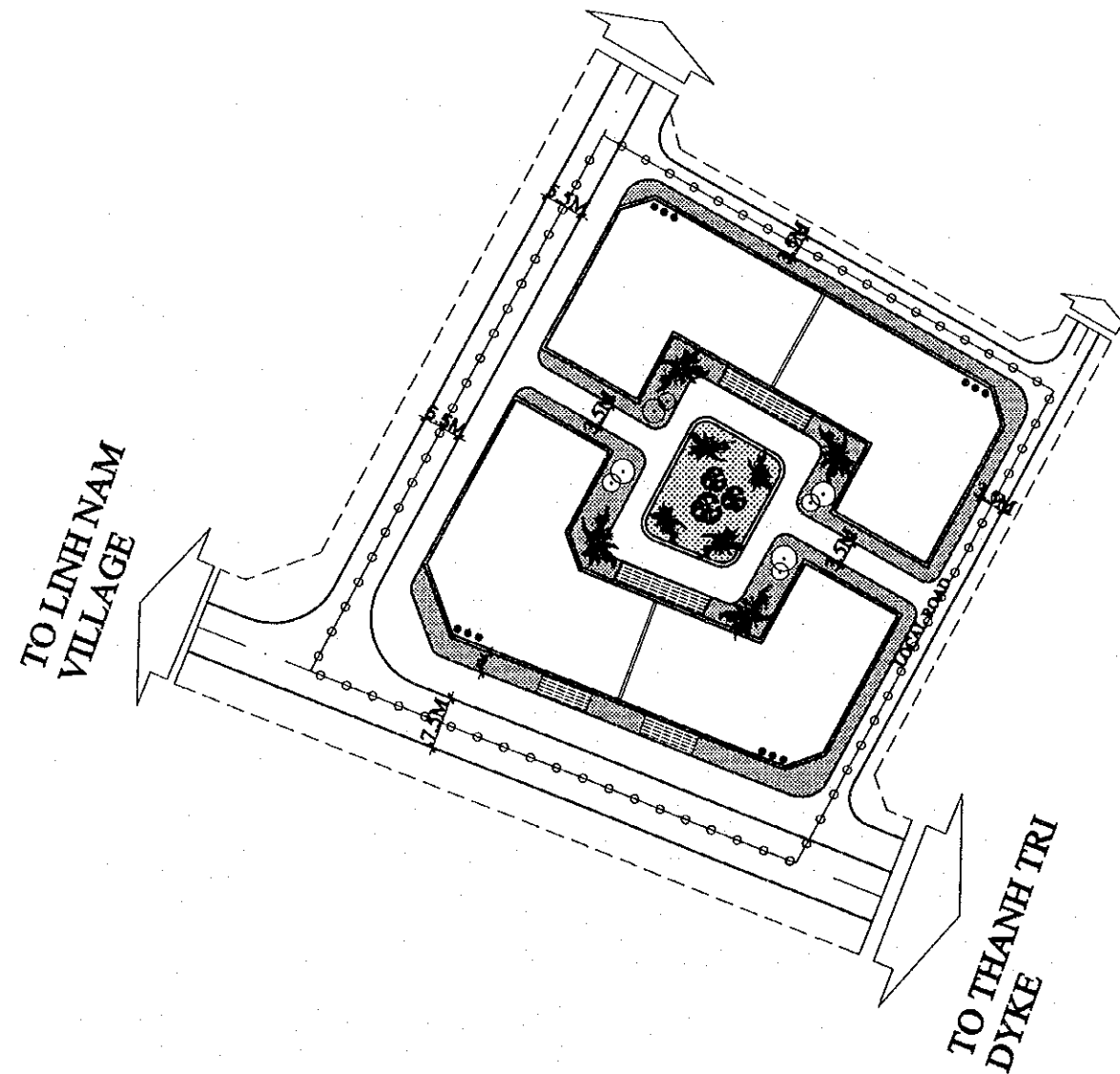
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY	S. NAYABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME	S. NAYABE
PROJECT	RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	<i>[Signature]</i>
CONSULTING	PACIFIC CONSULTANTS INTERNATIONAL	DATE	2000. 8. 17

PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-4-3	
ARRANGEMENT OF LEVELLING			



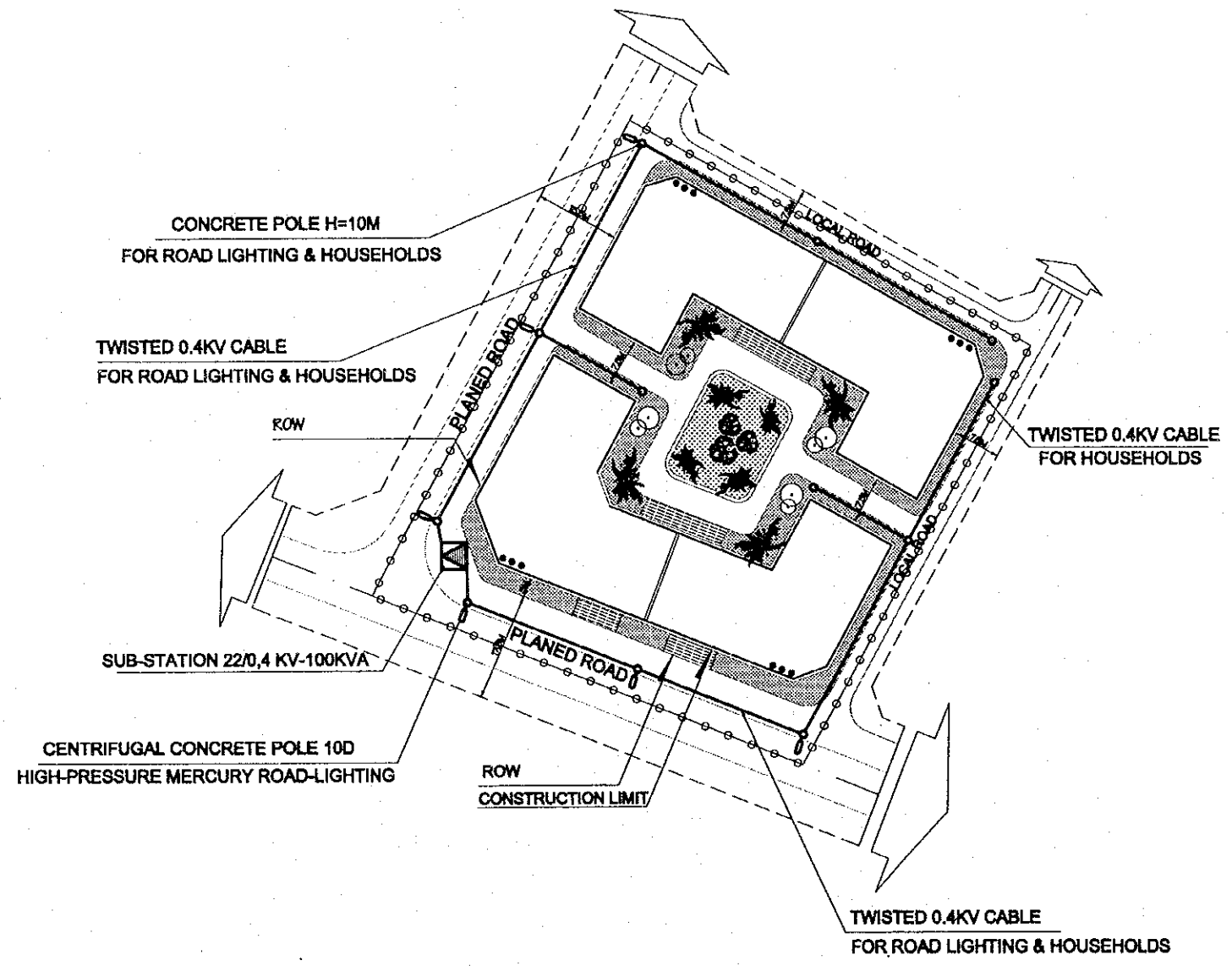
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT		SIGNATURE
CONSULTANT	PACIFIC CONSULTANTS INTERNATIONAL	DATE
		2000.3.17

PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-4-4	
ARRANGEMENT OF TRAFFIC -X4			



THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY NAME S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		SIGNATURE <i>[Signature]</i>
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	DATE 2000. 8. 17	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL		

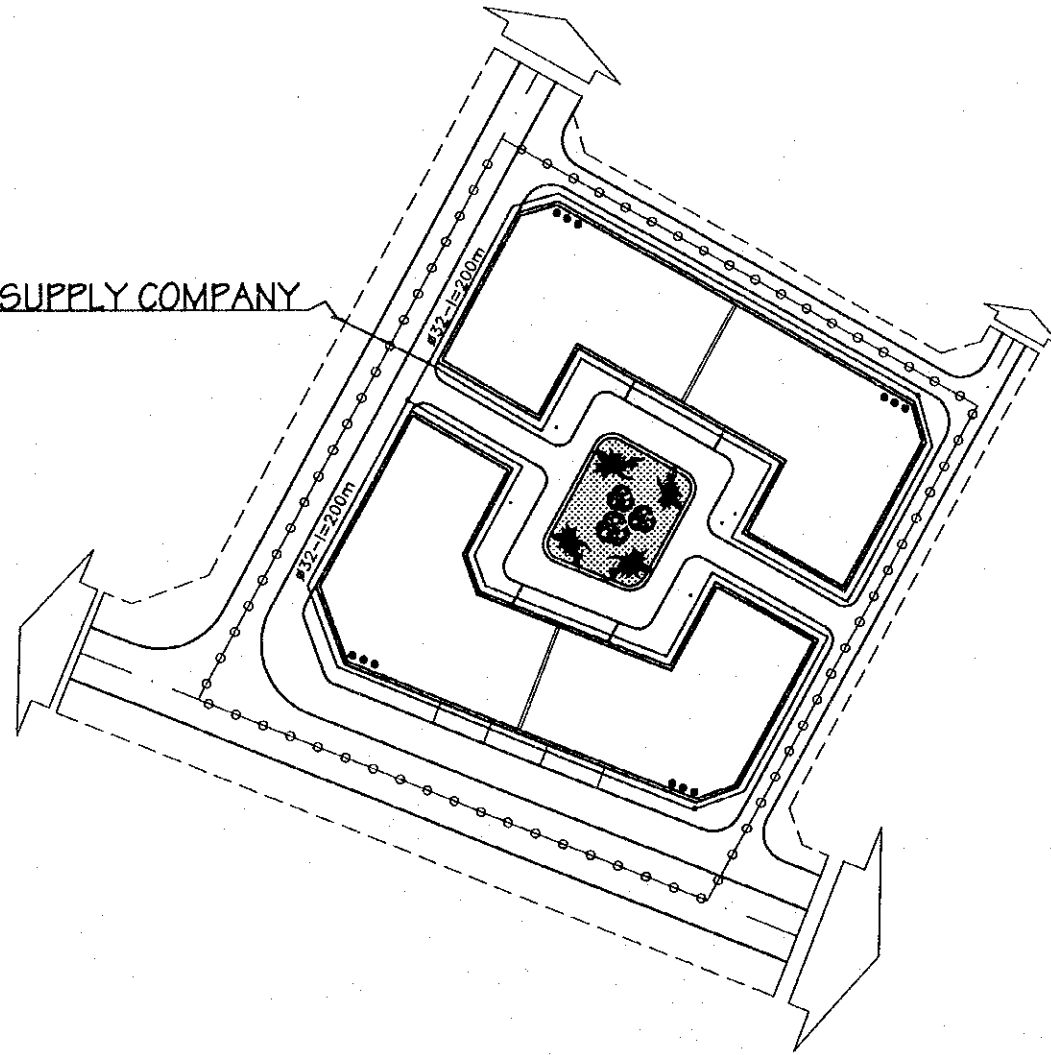
PACKAGE 4	SCALE 1/1000	DRAWING No. B - 4 - 5	SHEET No.
ARRANGEMENT OF POWER SUPPLY			



THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT		SIGNATURE
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL		DATE
		2000. 3. 17

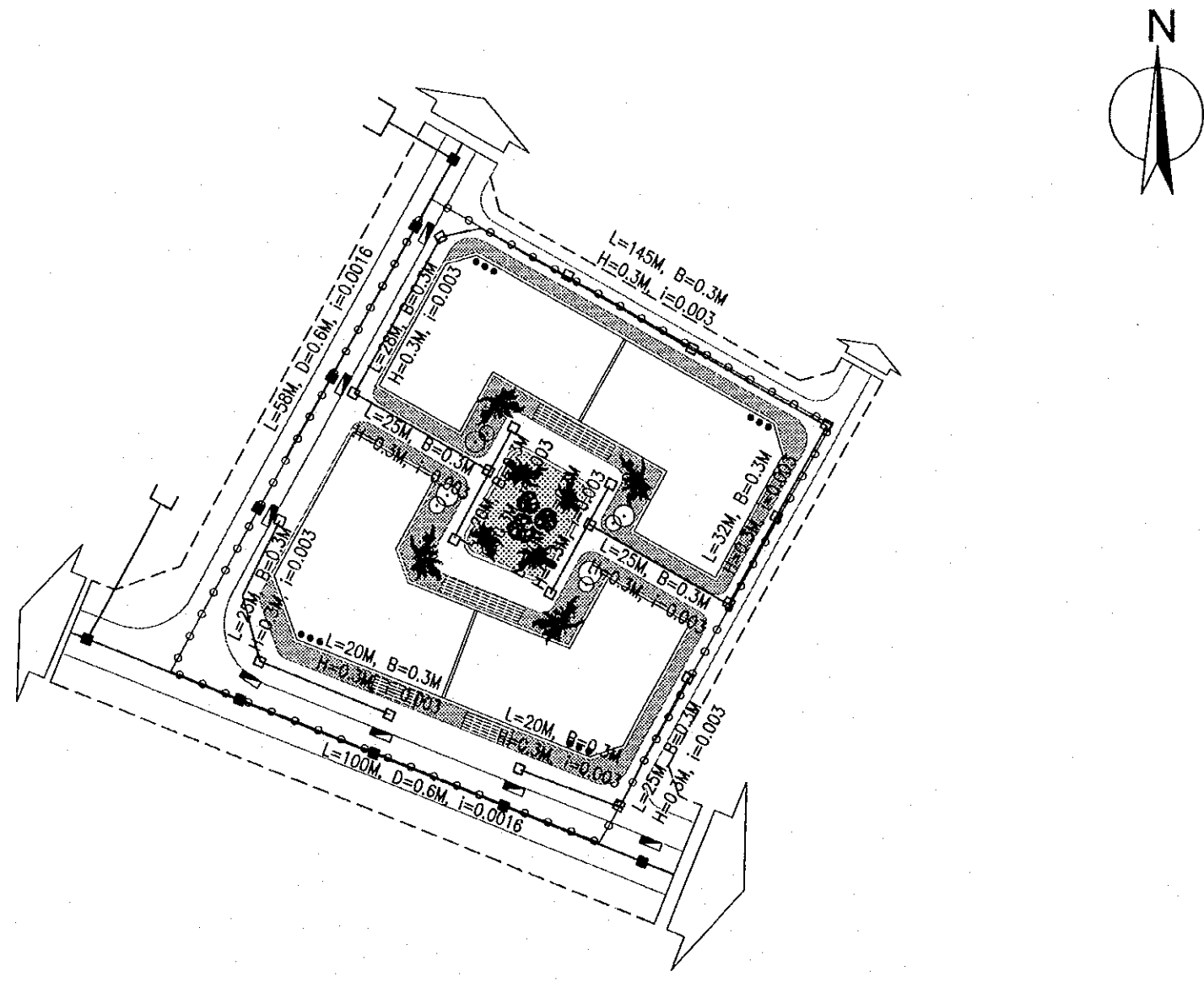
PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-4-6	
ARRANGEMENT WATER SUPPLY-X4			

FROM WATER SUPPLY COMPANY



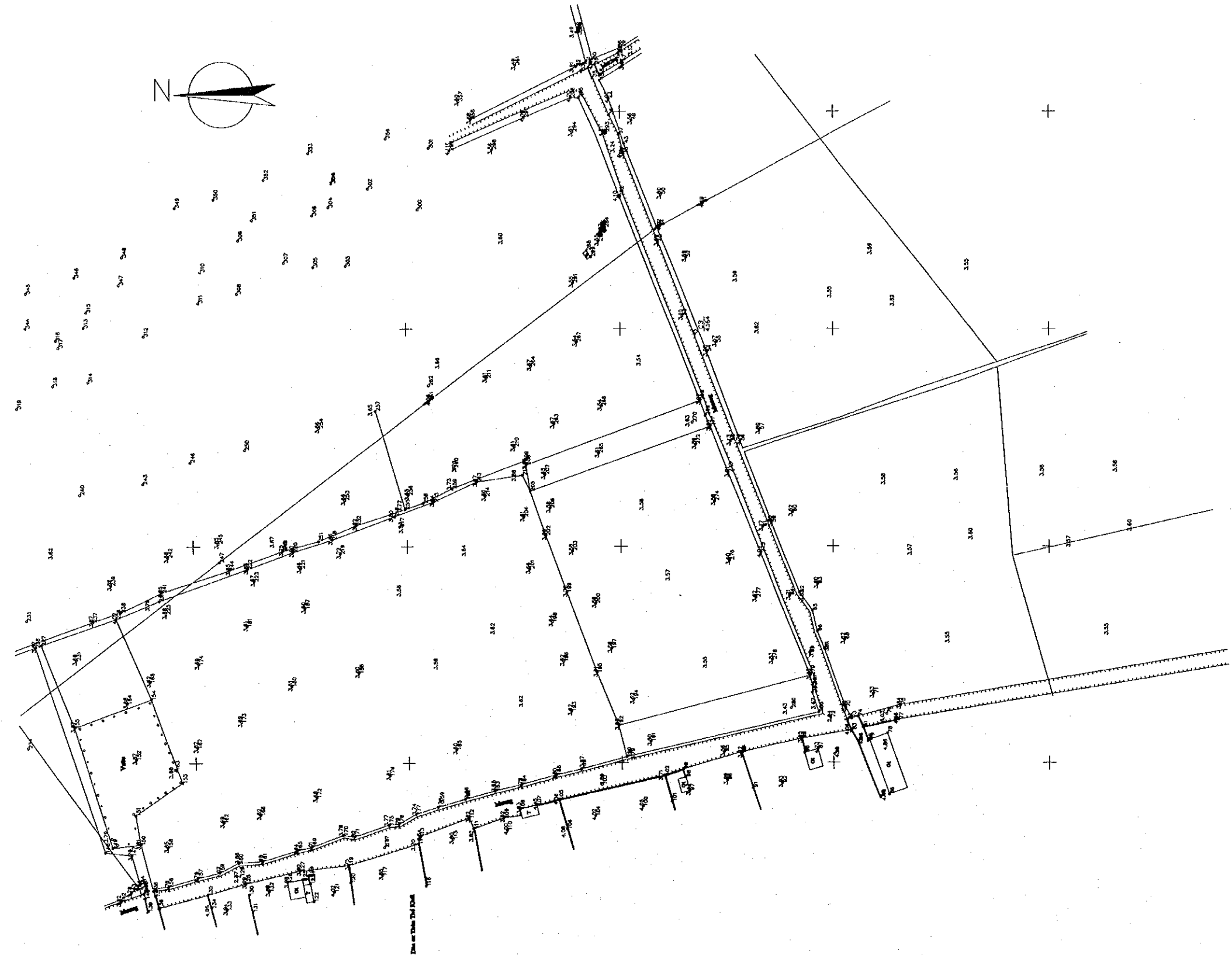
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. WATAGE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	<i>[Signature]</i>
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE	2002. 11. 14


PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-4-7	
ARRANGEMENT OF DRAINAGE			



THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. MATSUE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE	2000.3.14

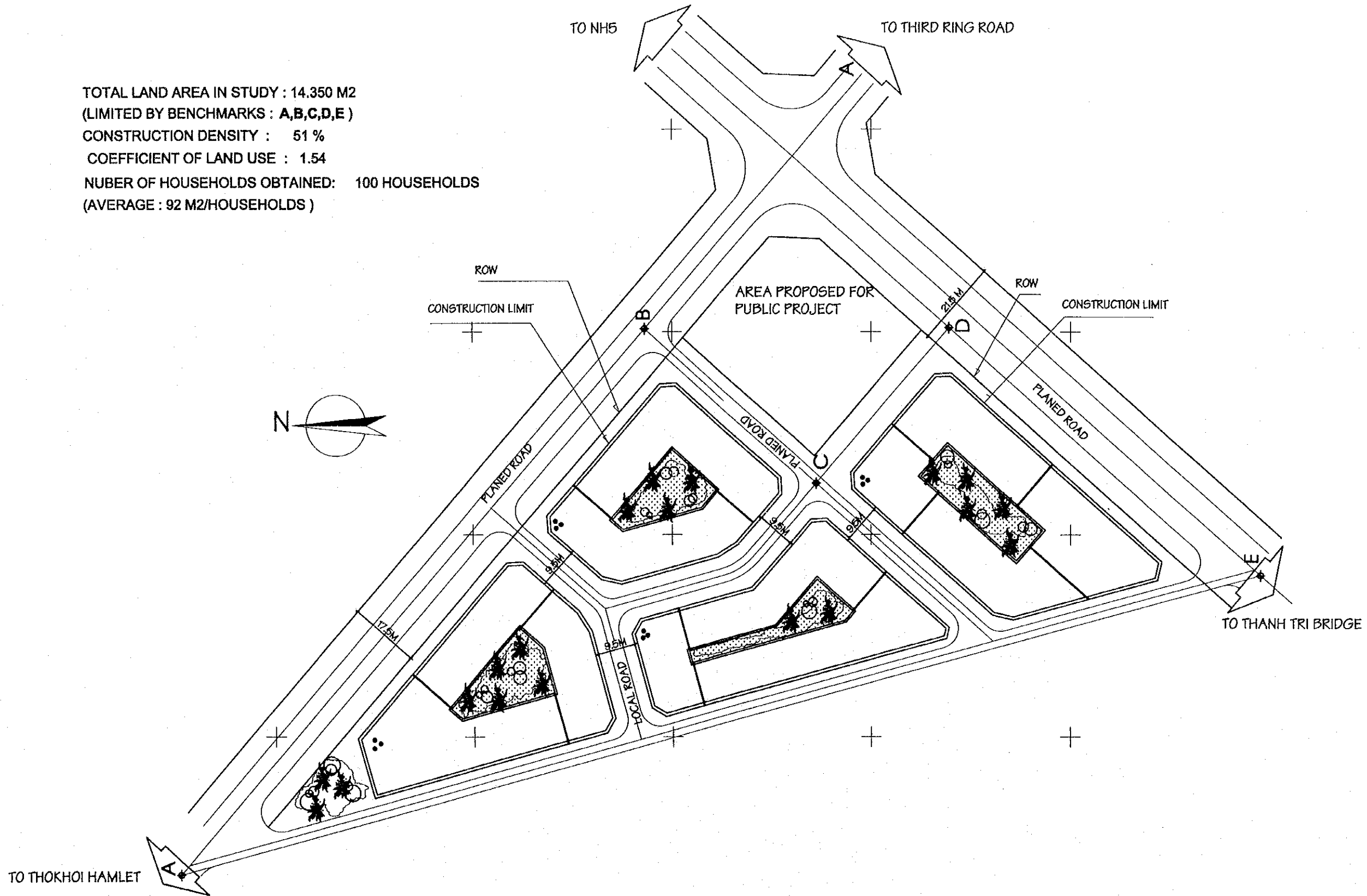
PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-5-1	
GROUND PLAN-X5			



THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY	S. MATSUDA
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME	S. MATSUDA
PROJECT	RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	
CONSULTANT	PACIFIC CONSULTANTS INTERNATIONAL	DATE	2000.01.14

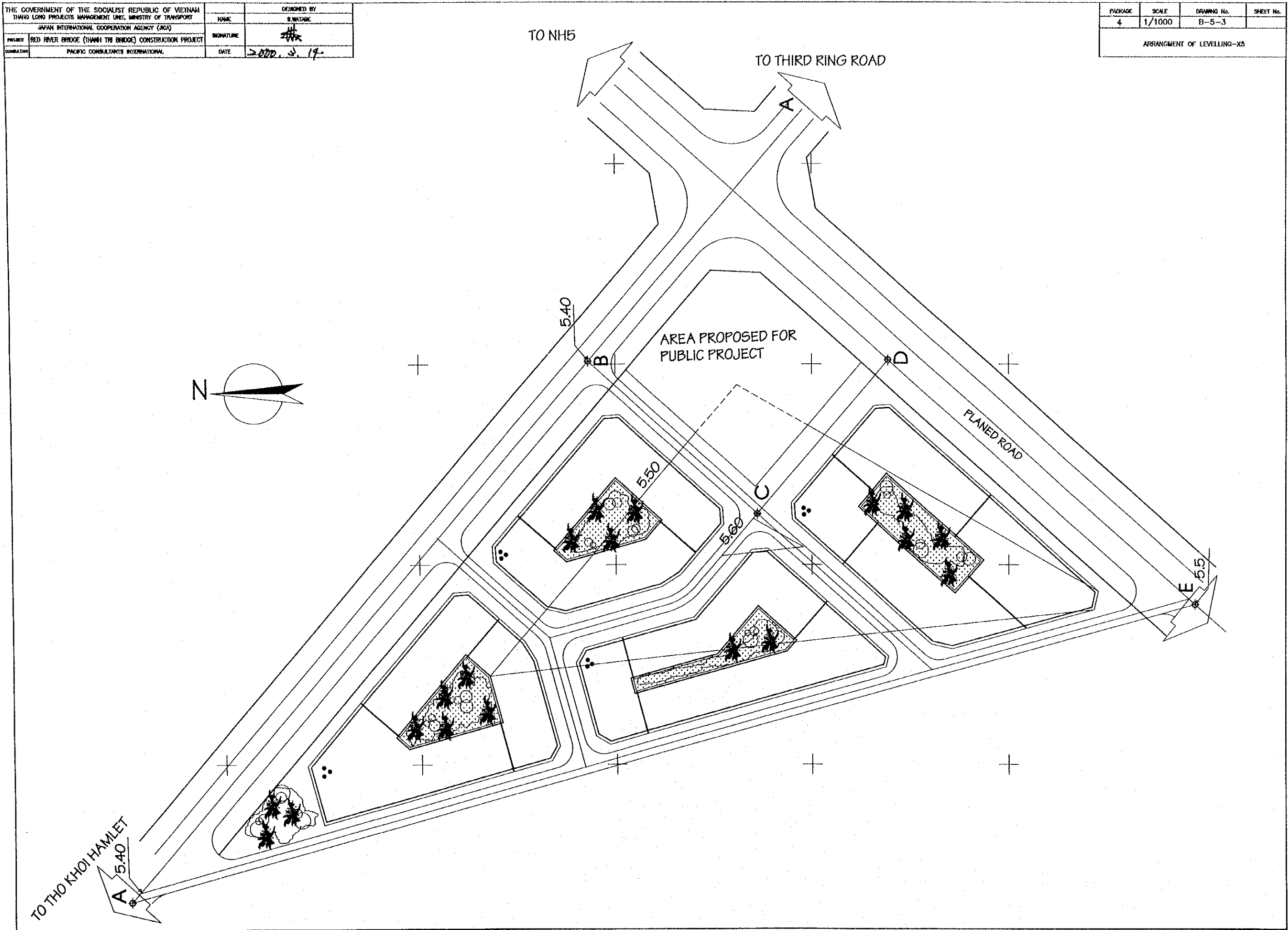
PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-5-2	
GENERAL ARRANGEMENT-X5			

TOTAL LAND AREA IN STUDY : 14.350 M2  
(LIMITED BY BENCHMARKS : A,B,C,D,E)  
CONSTRUCTION DENSITY : 51 %  
COEFFICIENT OF LAND USE : 1.54  
NUMBER OF HOUSEHOLDS OBTAINED: 100 HOUSEHOLDS  
(AVERAGE : 92 M2/HOUSEHOLDS)



THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THUONG LOANG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME	S. NATADE
PROJECT RED RIVER BRIDGE (THANH THI BRIDGE) CONSTRUCTION PROJECT		SIGNATURE	<i>[Signature]</i>
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL		DATE	20/02/99

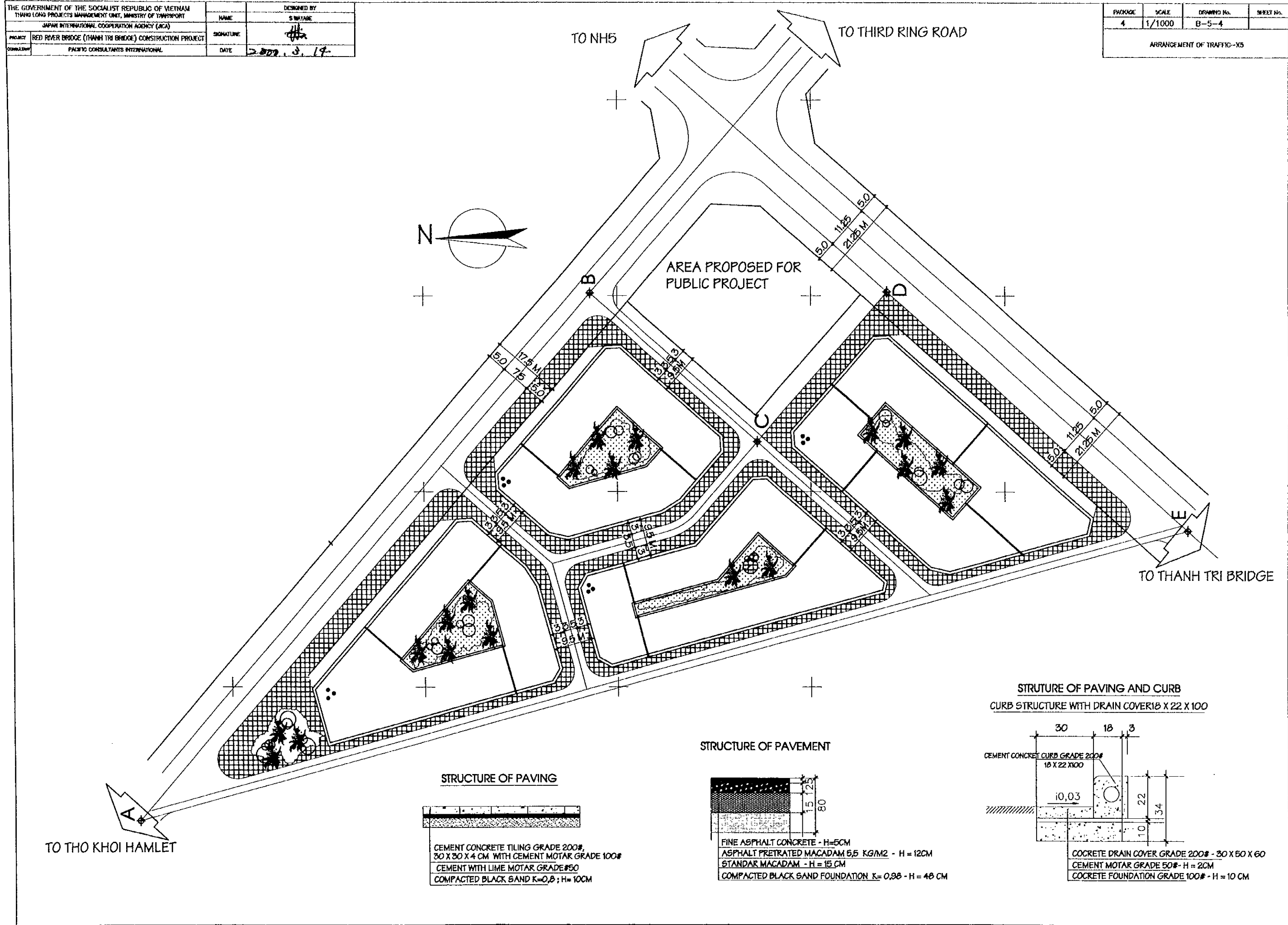
PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-5-3	
ARRANGMENT OF LEVELLING-XS			



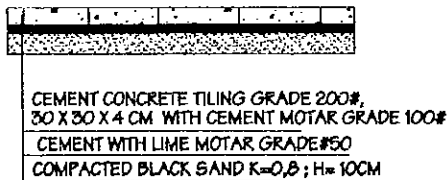


THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY	S. NAYABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME	S. NAYABE
PROJECT	RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	<i>[Signature]</i>
CONSULTANT	PACIFIC CONSULTANTS INTERNATIONAL	DATE	2002.3.14

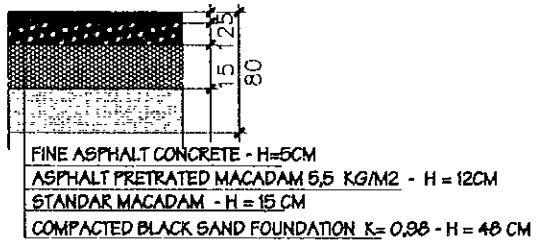
PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-5-4	
ARRANGEMENT OF TRAFFIC-X5			



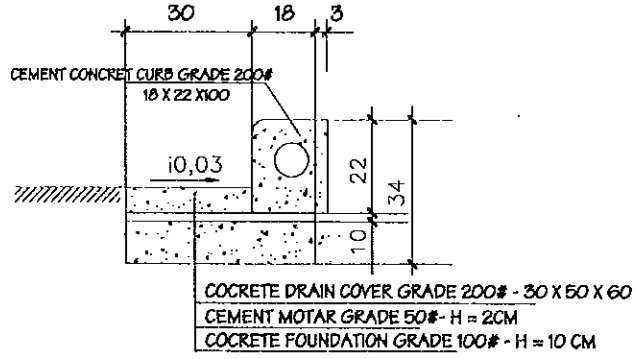
STRUCTURE OF PAVING



STRUCTURE OF PAVEMENT

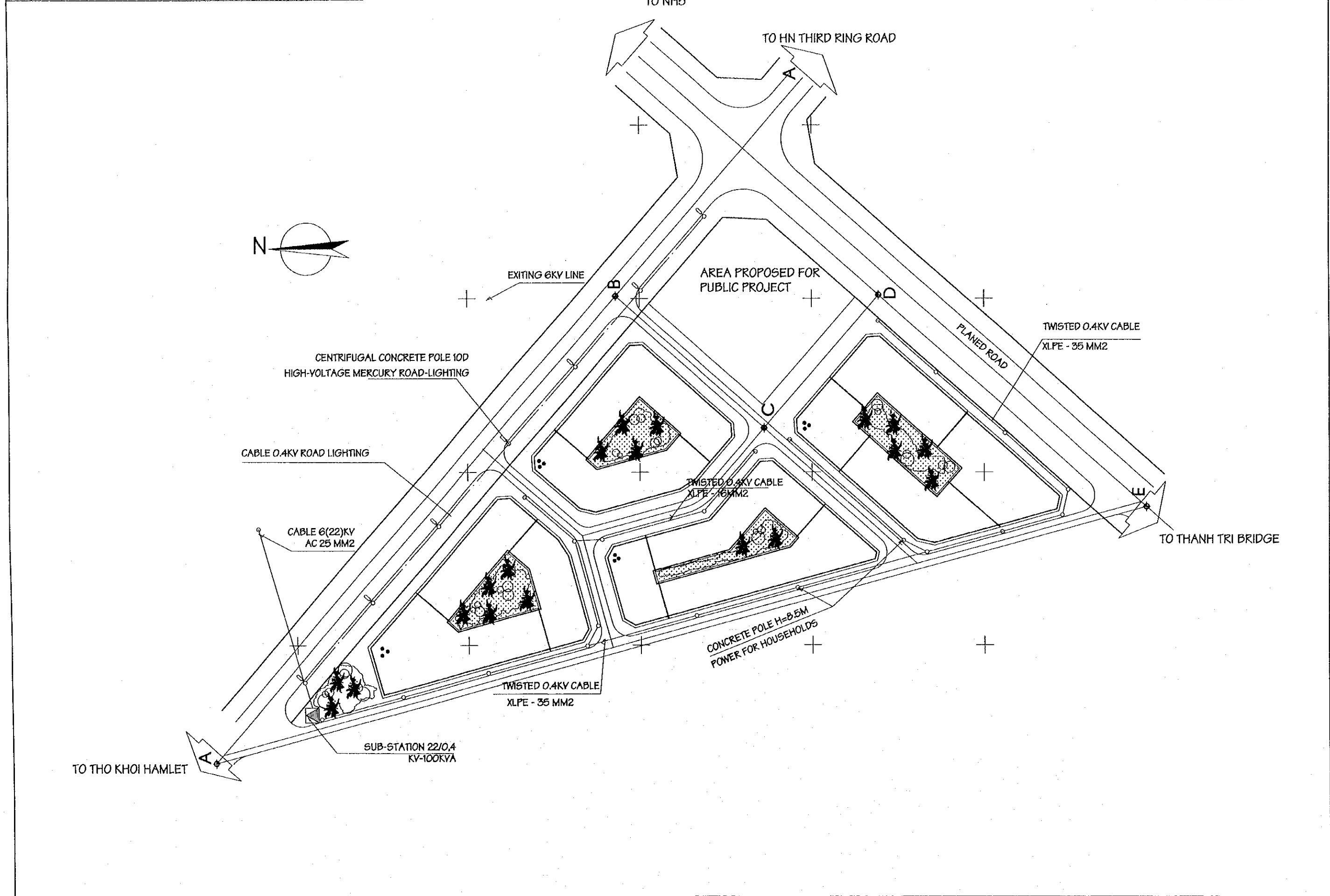


STRUTURE OF PAVING AND CURB  
CURB STRUCTURE WITH DRAIN COVER 18 X 22 X 100



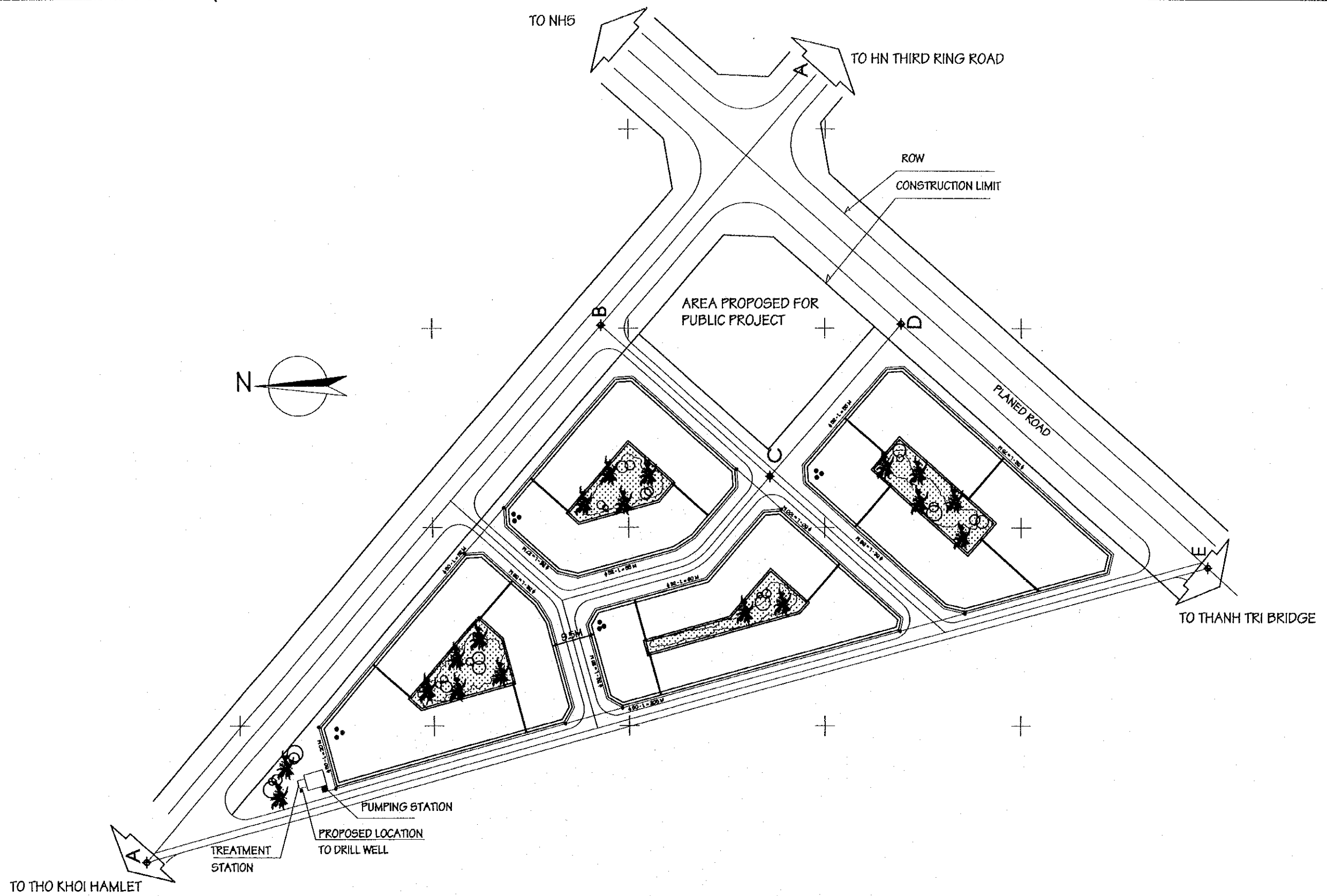
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM TRANH LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY NAME S. MATSUDA
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		SIGNATURE 
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE 2000.3.19

PACKAGE 4	SCALE 1/1000	DRAWING No. B-5-5	SHEET No.
ARRANGEMENT OF POWER SUPPLY-X5			



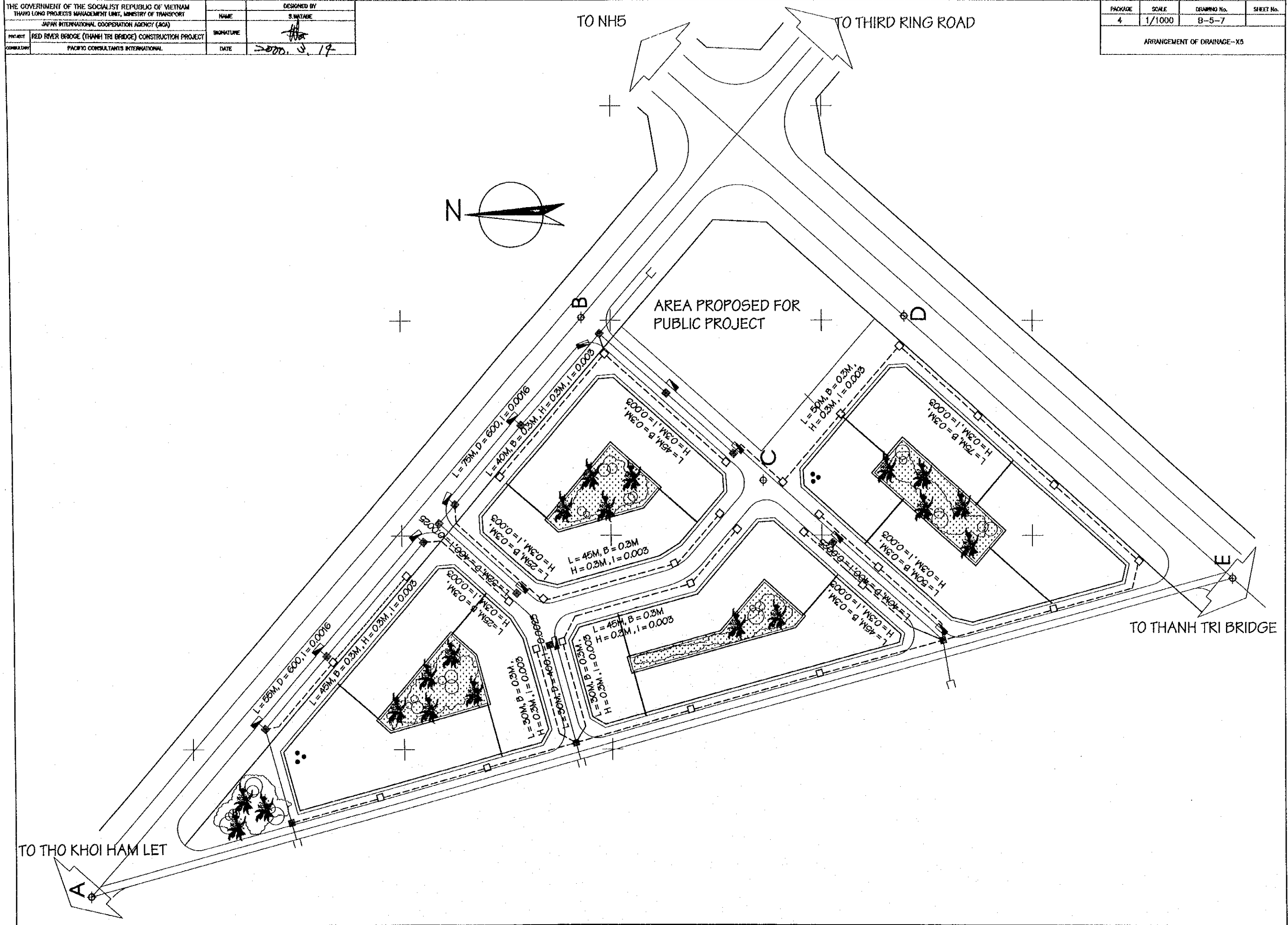
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. WATASE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE 2000. 3. 14	

PACKAGE 4	SCALE 1/1000	DRAWING No. B-5-6	SHEET No.
ARRANGEMENT OF WATER SUPPLY-X5			



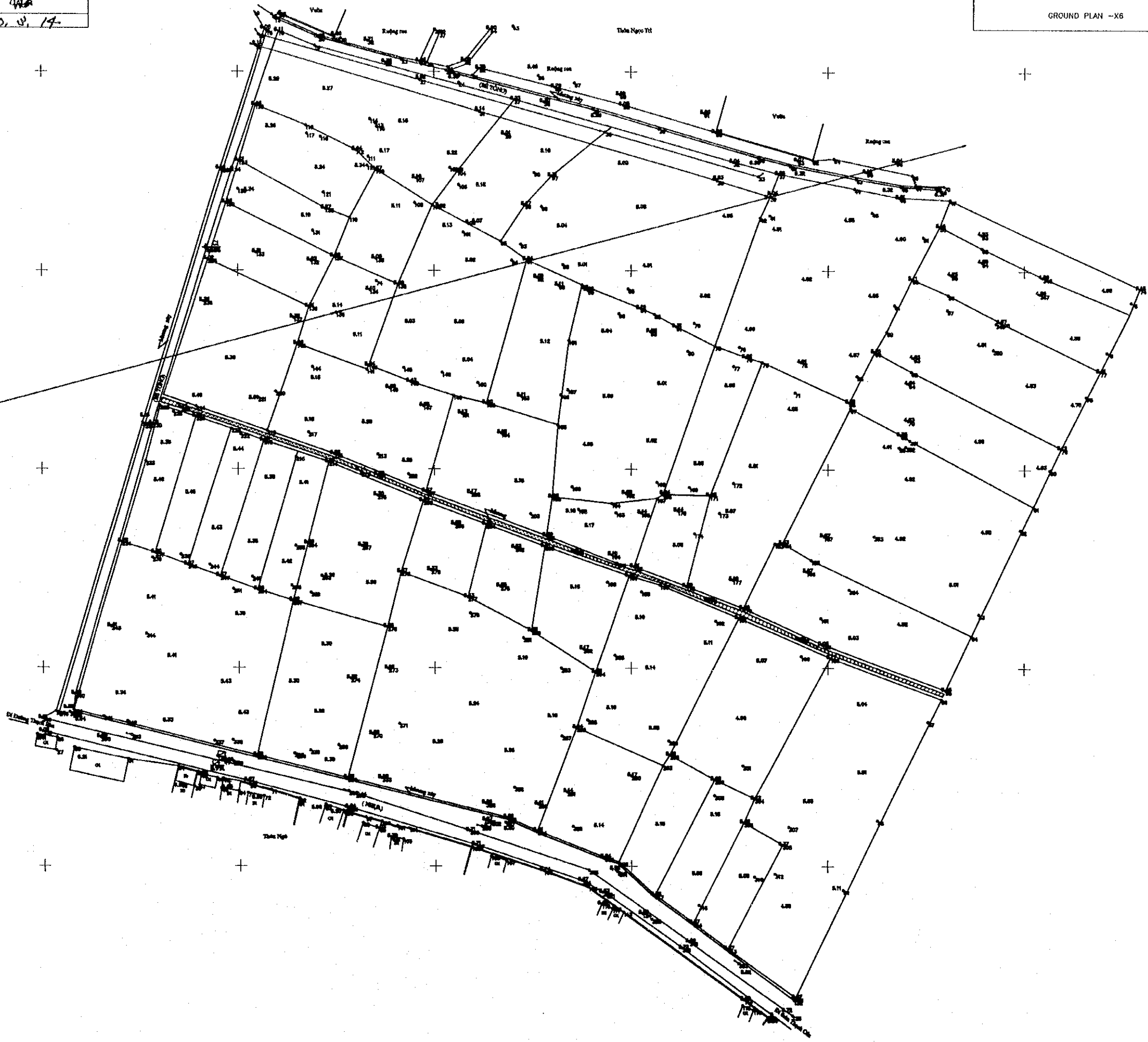
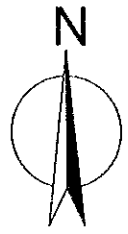
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. MATSUE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE 2000. 3. 19	

PACKAGE 4	SCALE 1/1000	DRAWING No. B-5-7	SHEET No.
ARRANGEMENT OF DRAINAGE-X5			



THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY	S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME	S. WATABE
PROJECT: RED RIVER BRIDGE (MANH TRI BRIDGE) CONSTRUCTION PROJECT		SIGNATURE	<i>[Signature]</i>
CONSULTANT: PACIFIC CONSULTANTS INTERNATIONAL		DATE	2000. 3. 14

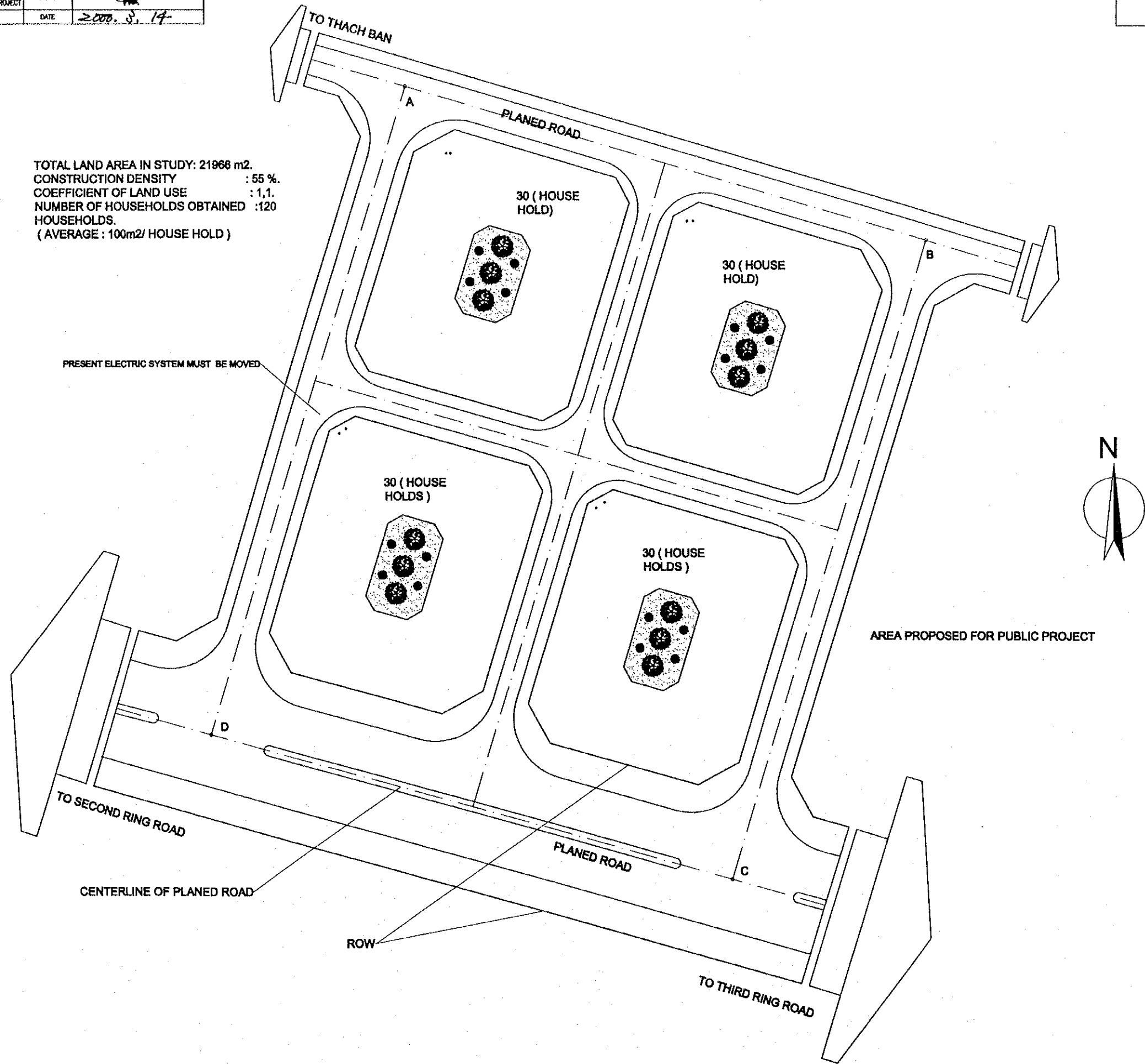
PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-6-1	
GROUND PLAN -X6			



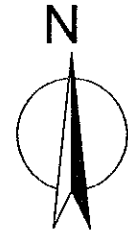
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		SIGNATURE 
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	DATE 2000. 5. 14	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL		

PACKAGE 4	SCALE 1/1000	DRAWING No. B-6-2	SHEET No.
GENERAL ARRANGEMENT-X6			


TOTAL LAND AREA IN STUDY: 21968 m<sup>2</sup>.  
 CONSTRUCTION DENSITY : 55 %.  
 COEFFICIENT OF LAND USE : 1.1.  
 NUMBER OF HOUSEHOLDS OBTAINED : 120  
 HOUSEHOLDS.  
 ( AVERAGE : 100m<sup>2</sup>/ HOUSE HOLD )



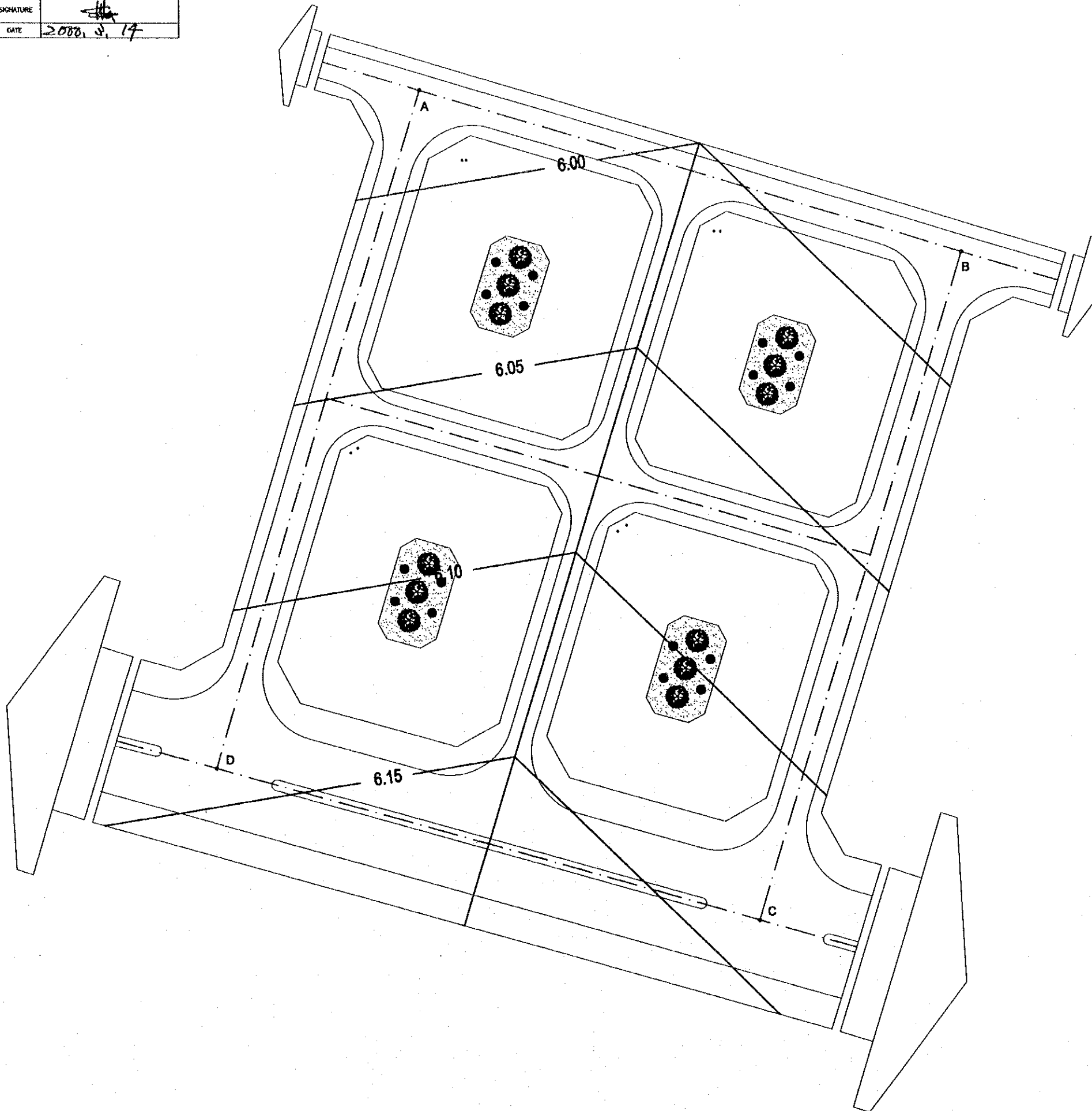
PRESENT ELECTRIC SYSTEM MUST BE MOVED



AREA PROPOSED FOR PUBLIC PROJECT

THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. WATADA
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE 	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE 2000. 3. 17	

PACKAGE 4	SCALE 1/1000	DRAWING No. B-6-3	SHEET No.
ARRANGEMENT OF LEVELLING			



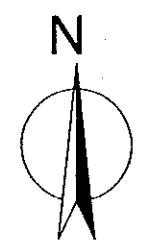
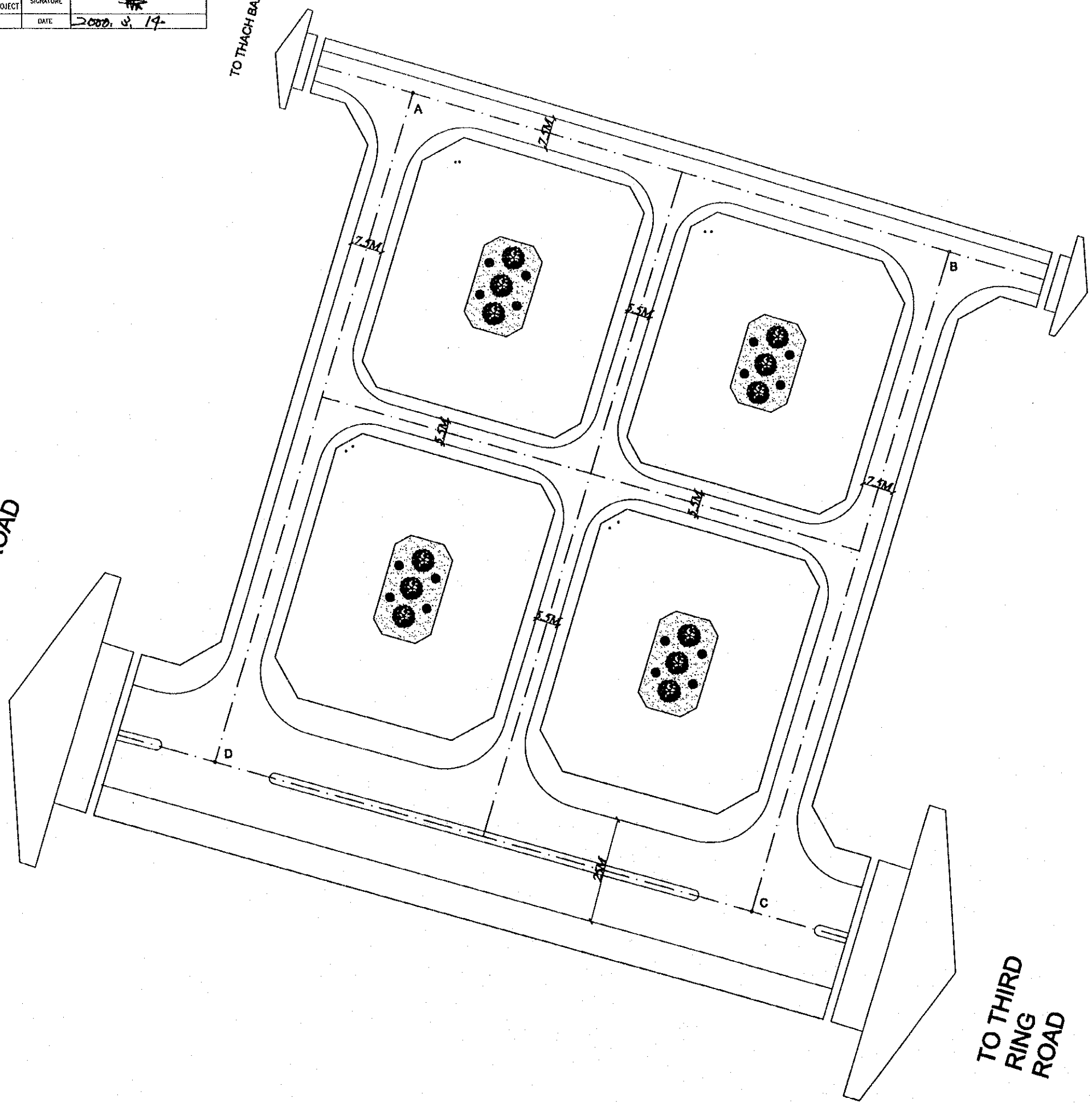
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM DIANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. WATAHE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE	2000. 8. 19

PACKAGE 4	SCALE 1/1000	DRAWING No. B-6-4	SHEET No.
ARRANGEMENT OF TRAFFIC-X6			

TO SECOND RING ROAD

TO THACH BAN

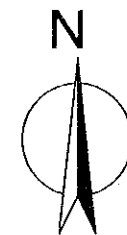
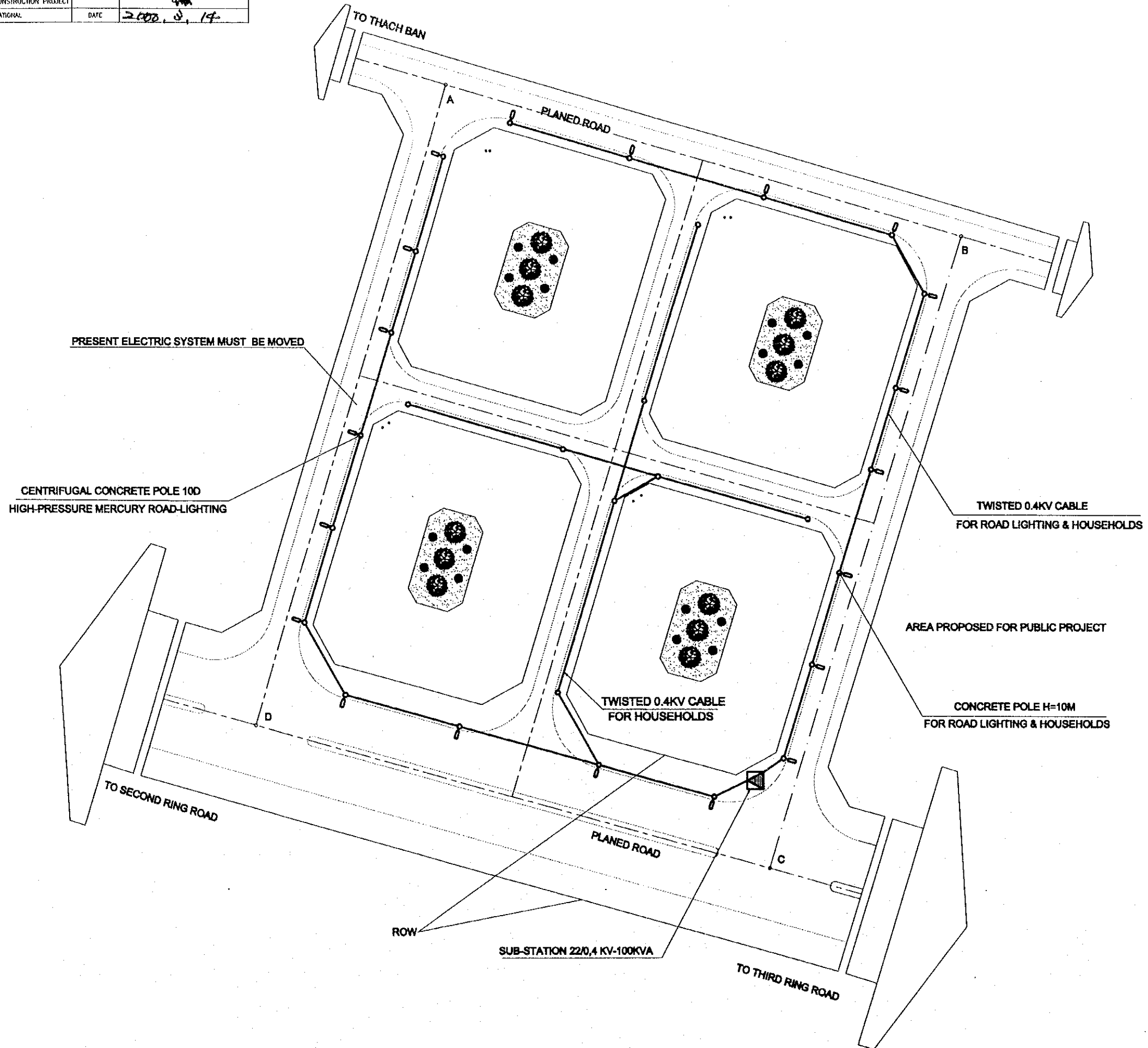
TO THIRD RING ROAD

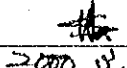




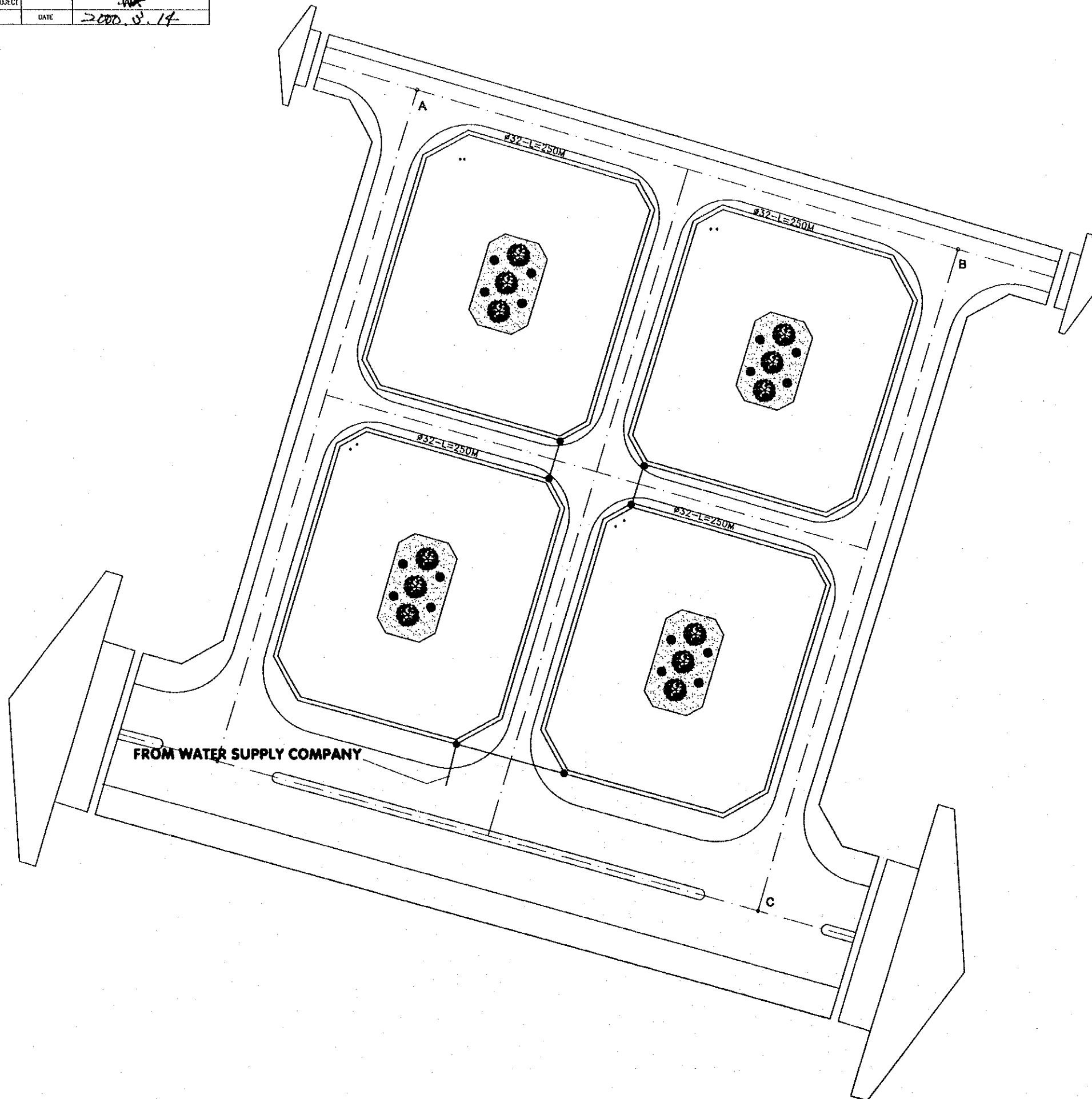
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE	2002.8.14

PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B - 6 - 5	
ARRANGEMENT OF POWER SUPPLY			



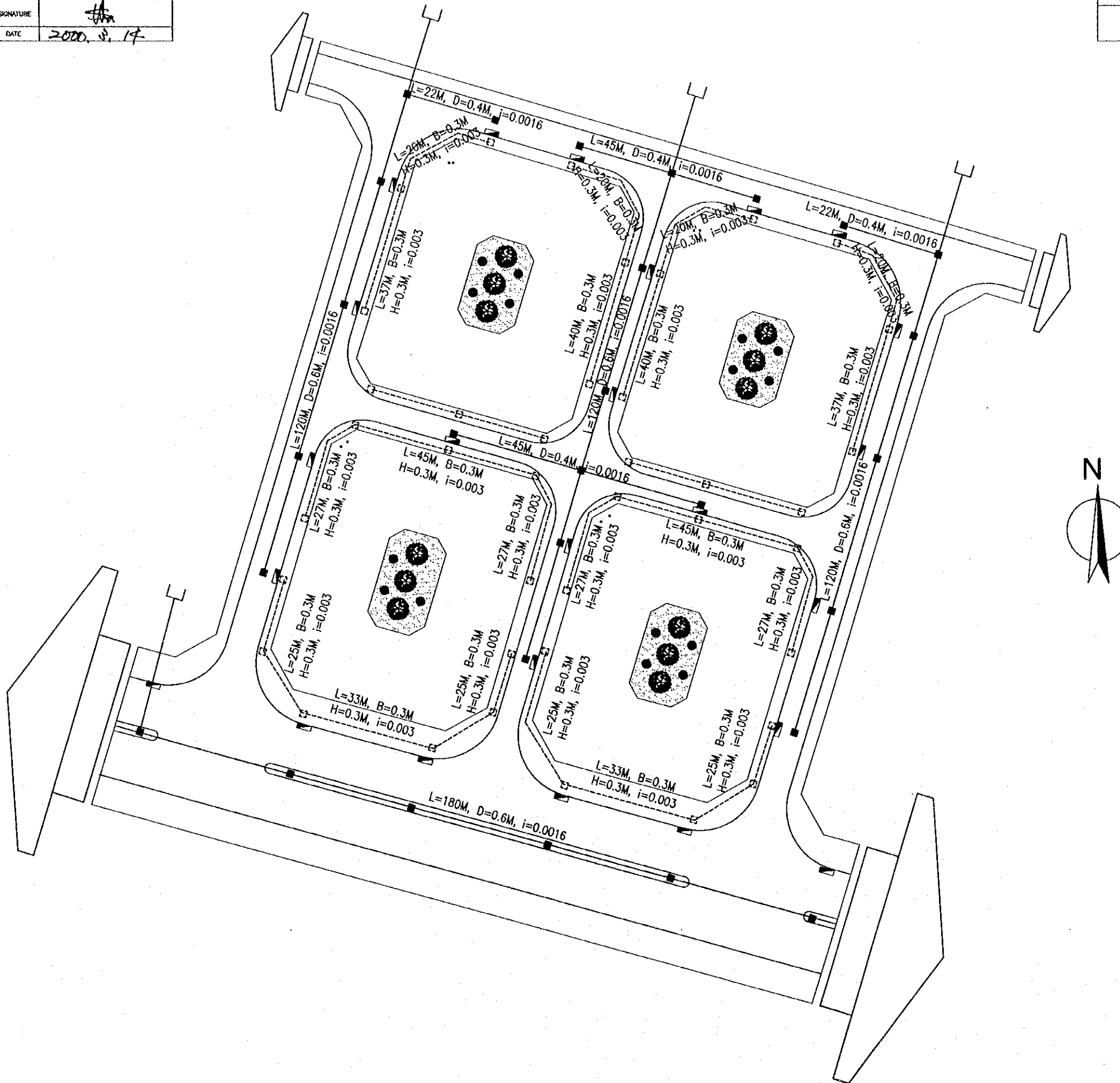
THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM THANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY S. WATABE
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT	SIGNATURE	
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL	DATE	2000.8.14

PACKAGE 4	SCALE 1/1000	DRAWING No. B-6-6	SHEET No.
ARRANGEMENT OF WATER SUPPLY-X6			



THE GOVERNMENT OF THE SOCIALIST REPUBLIC OF VIETNAM YUANG LONG PROJECTS MANAGEMENT UNIT, MINISTRY OF TRANSPORT		DESIGNED BY	S. MATSUDA
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		NAME	S. MATSUDA
PROJECT RED RIVER BRIDGE (THANH TRI BRIDGE) CONSTRUCTION PROJECT		SIGNATURE	<i>[Signature]</i>
CONSULTANT PACIFIC CONSULTANTS INTERNATIONAL		DATE	2000. 5. 17

PACKAGE	SCALE	DRAWING No.	SHEET No.
4	1/1000	B-6-7	
ARRANGEMENT OF DRAINAGE			







JICA