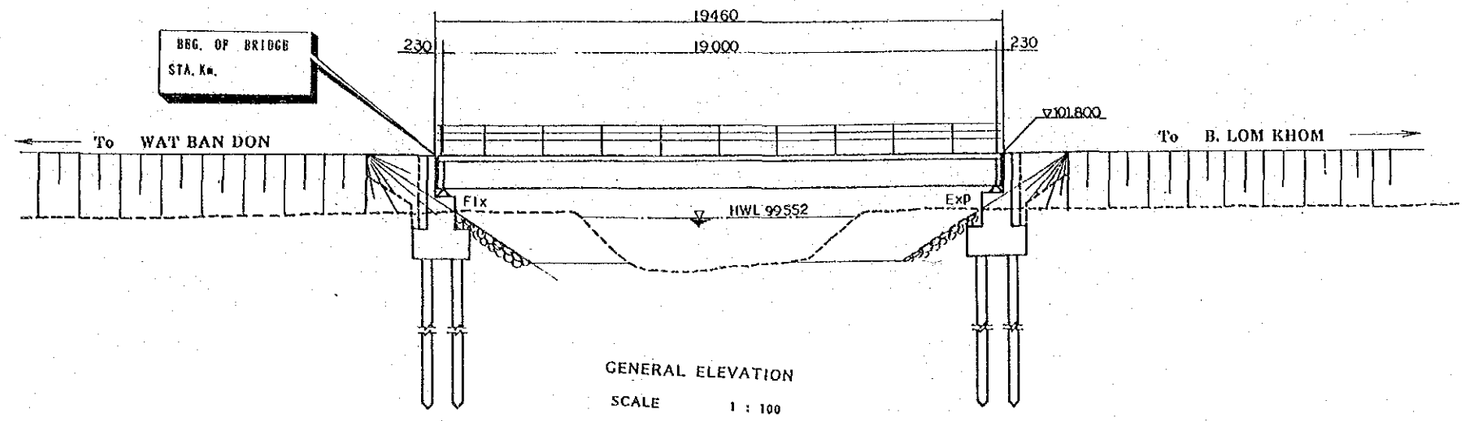
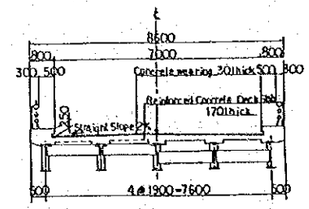
BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND		
Bridge No. 06.03	Kuai Lom Khom. No.2 Bridge Ban Lom Khom-Ban Don Daeng Road	Sheet No.



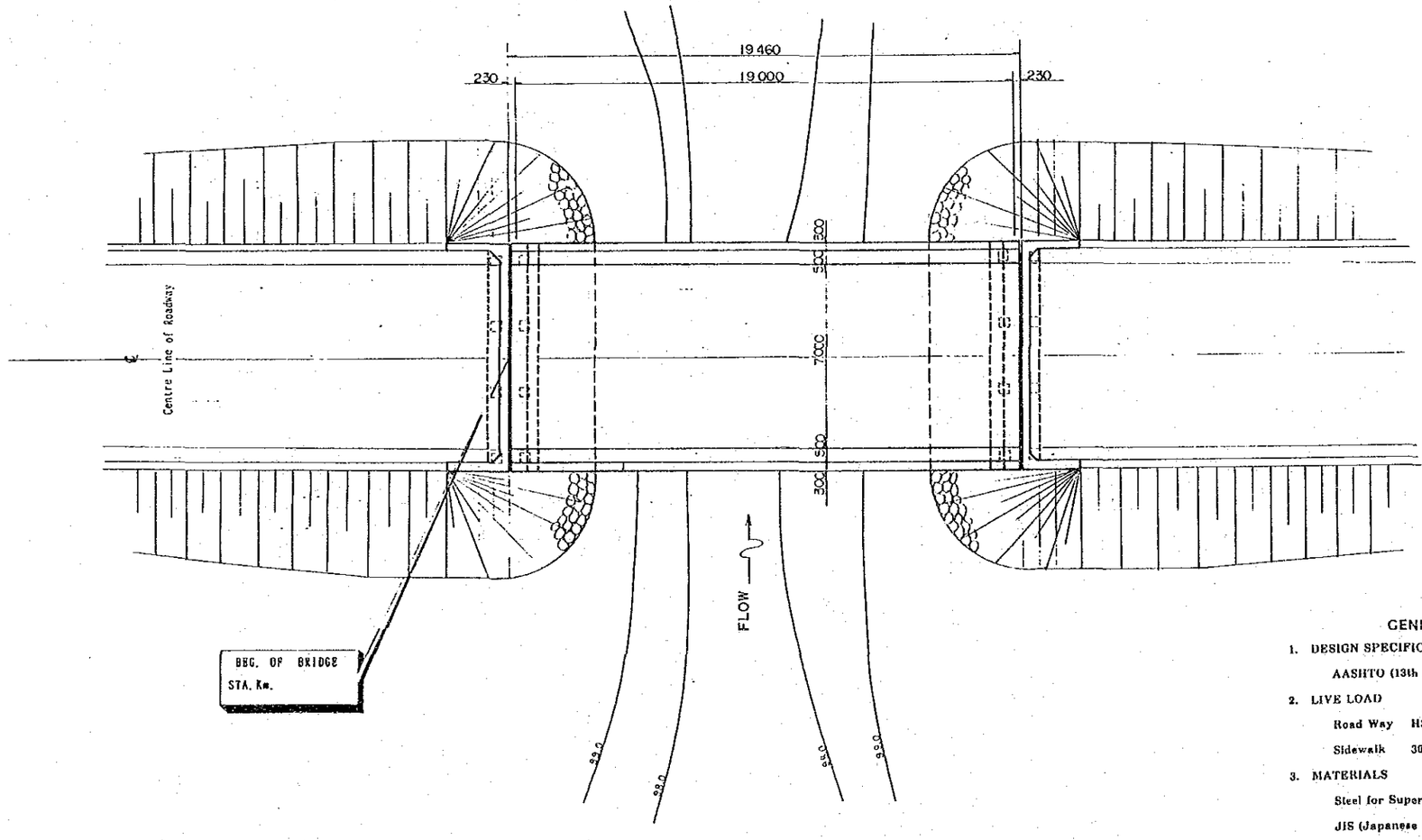
GENERAL ELEVATION

SCALE 1 : 100



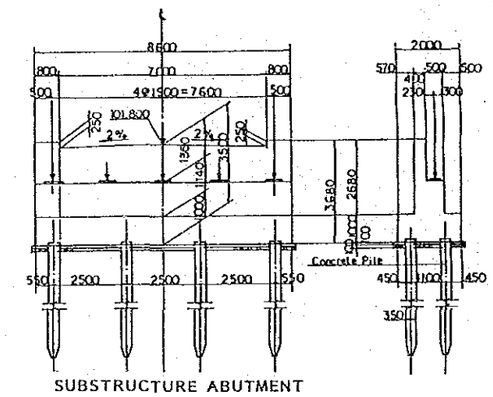
SUPERSTRUCTURE CROSS SECTION

SCALE 1 : 100



GENERAL PLAN

SCALE 1 : 100

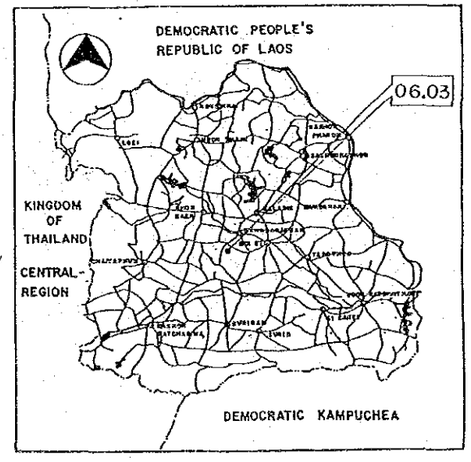


SUBSTRUCTURE ABUTMENT

SCALE 1 : 100

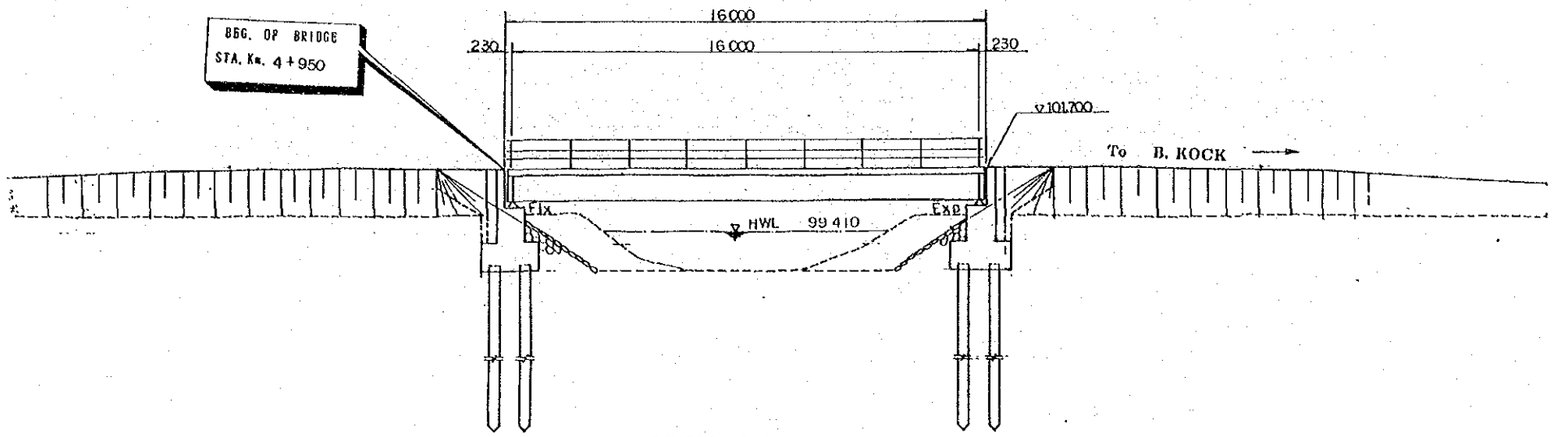
GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 360 kg/m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure Fc' ≥ 210 kg/cm²
   Substructure Fc' ≥ 210 kg/cm²
   Concrete Pile Fc' ≥ 240 kg/cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.



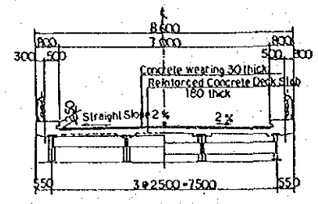
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge No.		Sheet No.
06.04	Huai Na Bridge Ban Khok-Ban Kok Road (A. Wapipathum)	



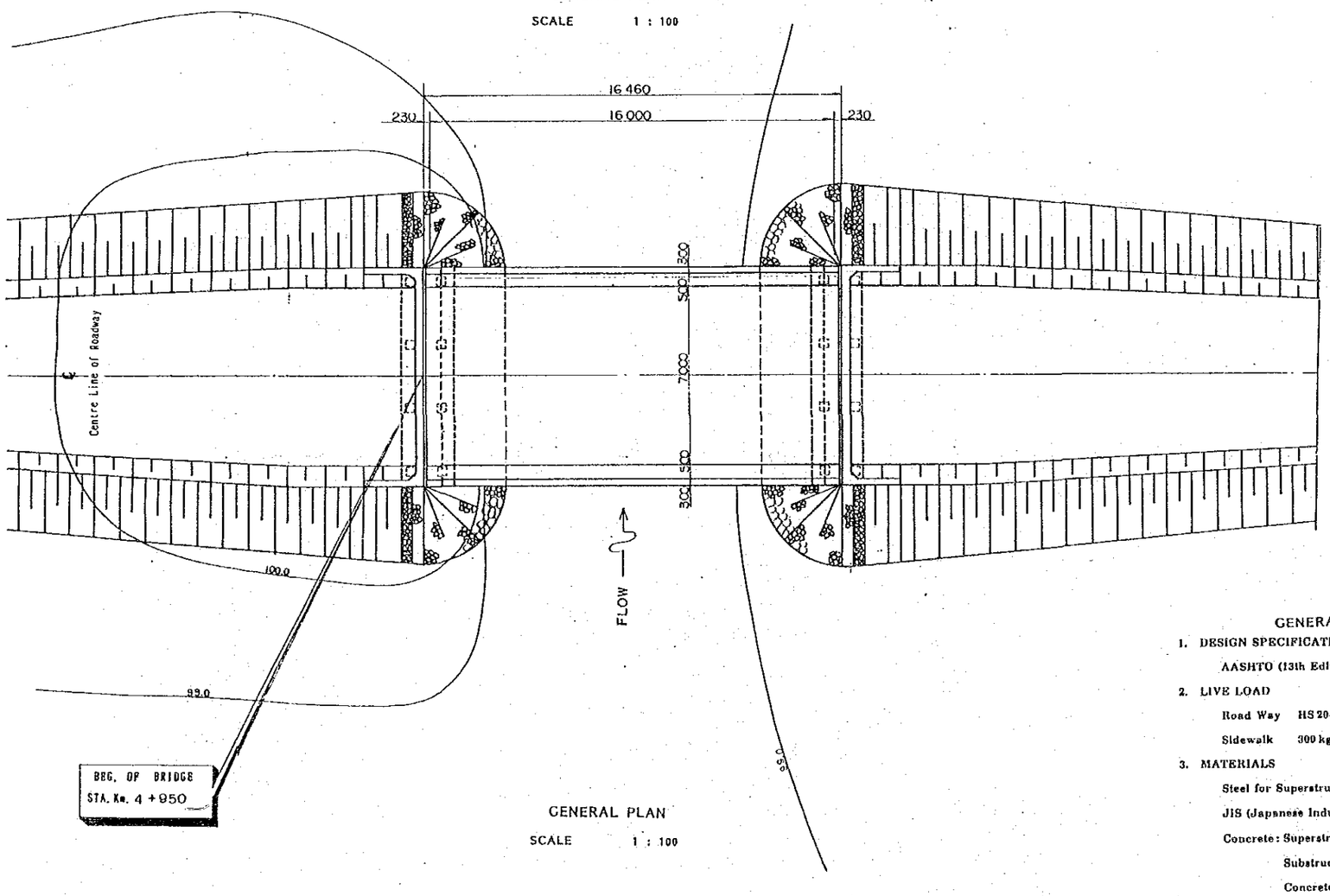
GENERAL PLAN

SCALE 1 : 100



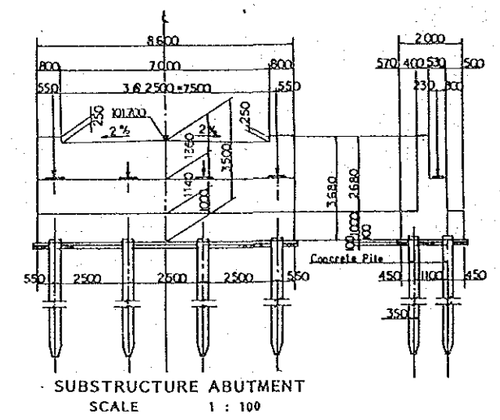
SUPERSTRUCTURE CROSS SECTION

SCALE 1 : 100



GENERAL PLAN

SCALE 1 : 100

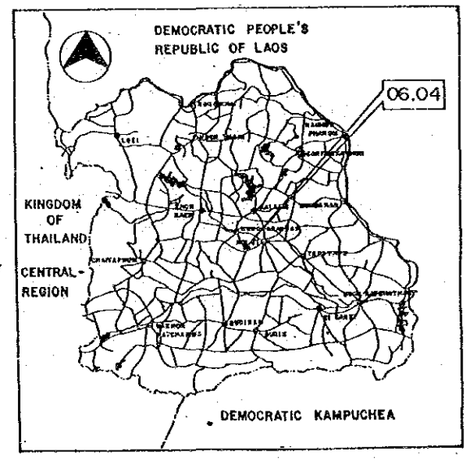


SUBSTRUCTURE ABUTMENT

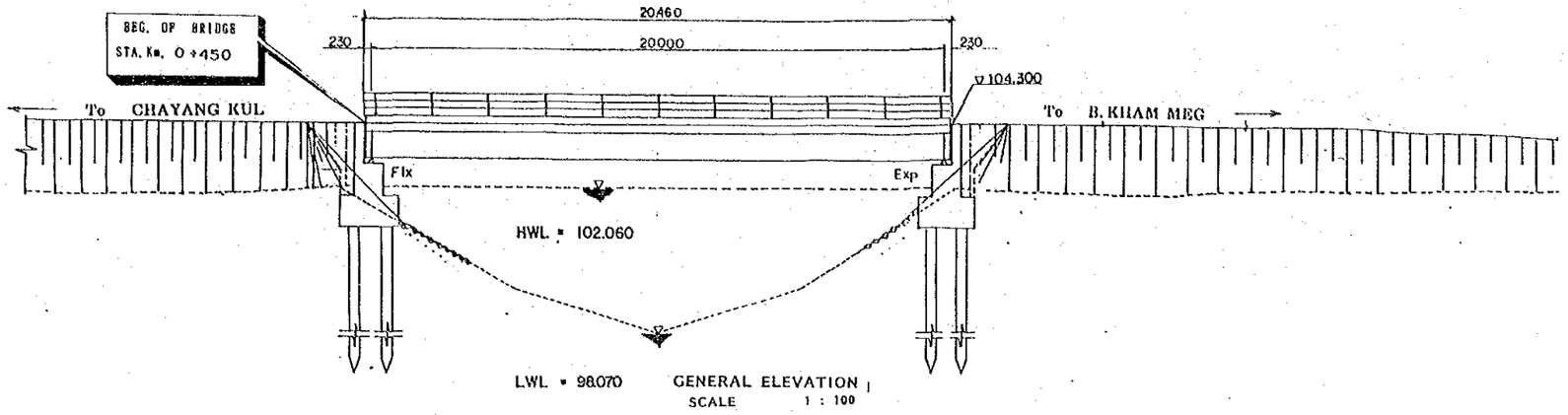
SCALE 1 : 100

GENERAL NOTES

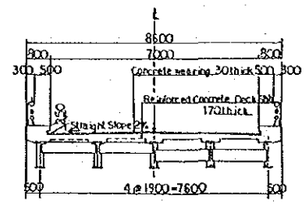
1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg/m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure Fc' ≥ 210 kg/cm²
   Substructure Fc' ≥ 210 kg/cm²
   Concrete Pile Fc' ≥ 240 kg/cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.



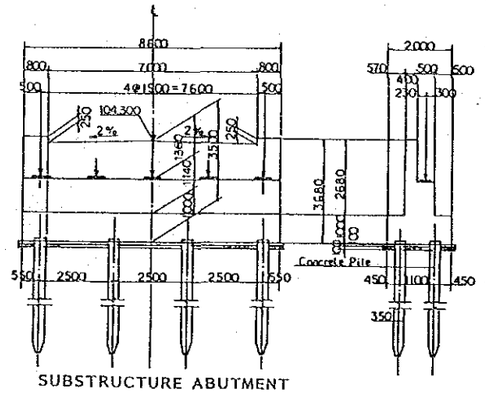
BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND		
Bridge No.	Huai Po Bridge Rt.No.212- Ban Kham Mek Rd. (A. Muang)	Sheet No.
07.07		



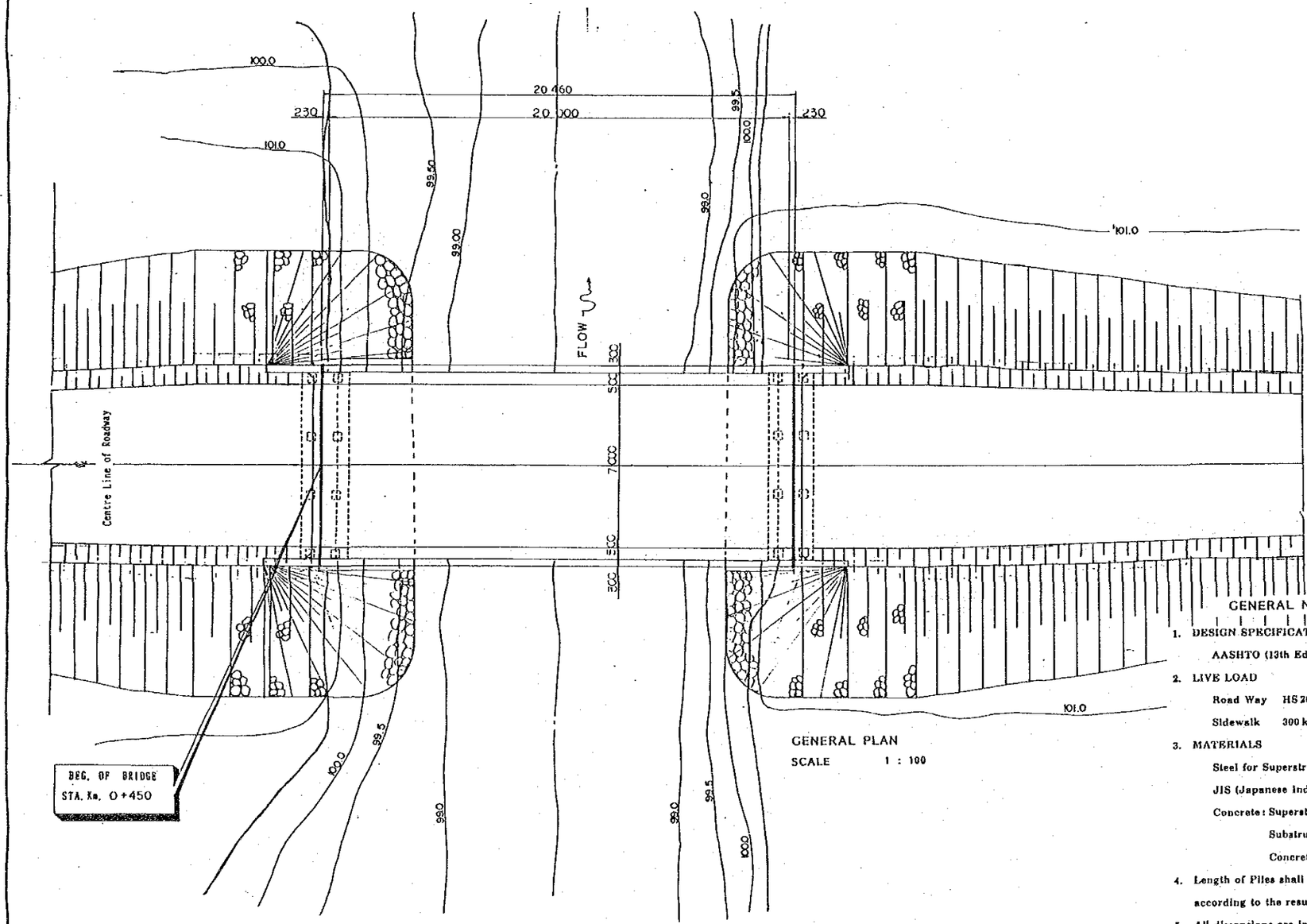
GENERAL ELEVATION
SCALE 1 : 100



SUPERSTRUCTURE CROSS SECTION
SCALE 1 : 100



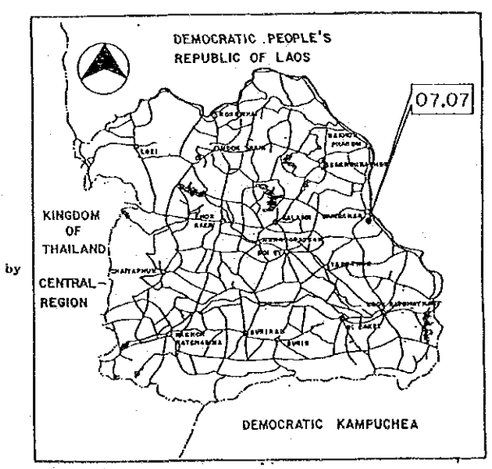
SUBSTRUCTURE ABUTMENT
SCALE 1 : 100



GENERAL PLAN
SCALE 1 : 100

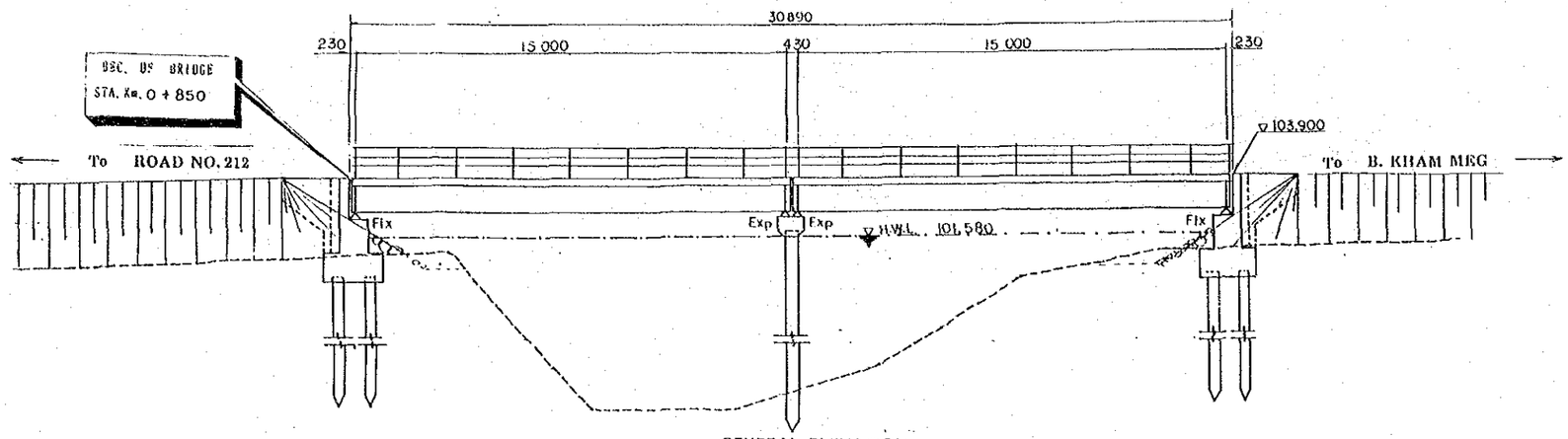
GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg/m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure Fc' ≥ 210 kg/cm²
   Substructure Fc' ≥ 210 kg/cm²
   Concrete Pile Fc' ≥ 240 kg/cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.



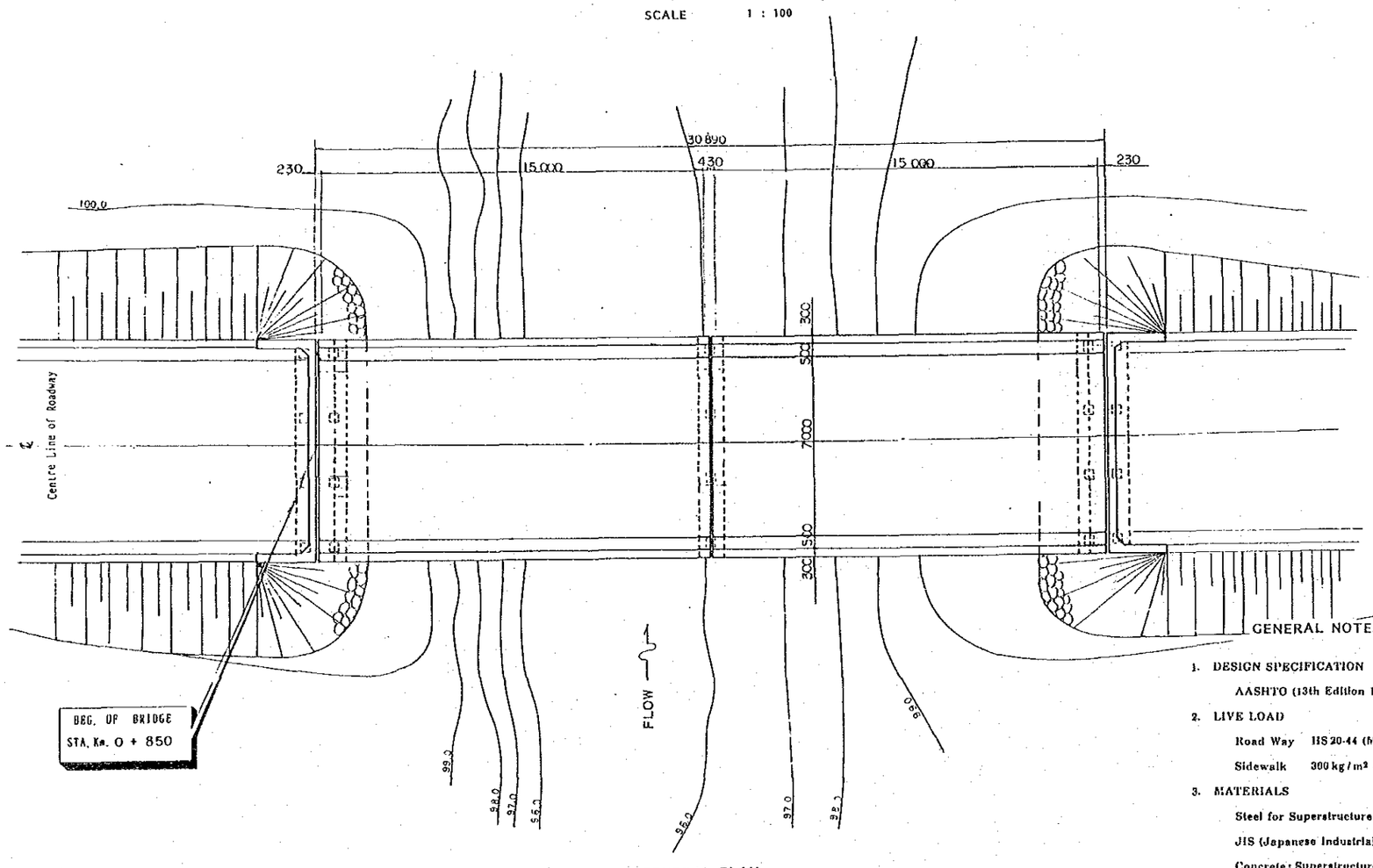
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge No.	Huai Ngui Bridge Rt. No. 212-Ban Kham Hok Road (A.Huang)	Sheet No.
07.08		



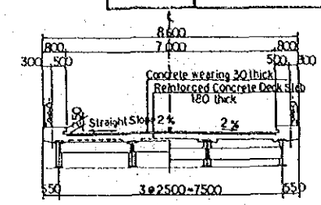
GENERAL ELEVATION

SCALE 1 : 100



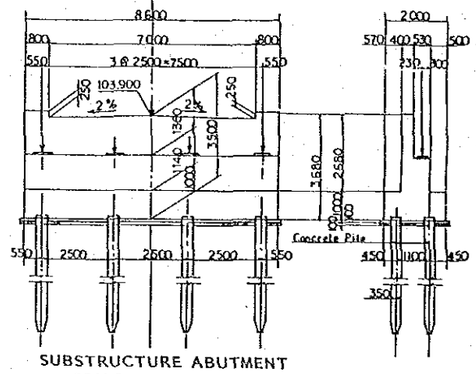
GENERAL PLAN

SCALE 1 : 100



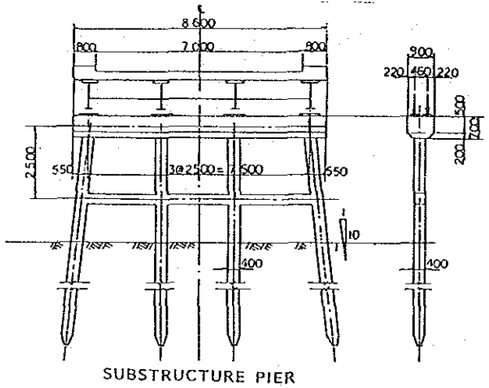
SUPERSTRUCTURE CROSS SECTION

SCALE 1 : 100



SUBSTRUCTURE ABUTMENT

SCALE 1 : 100

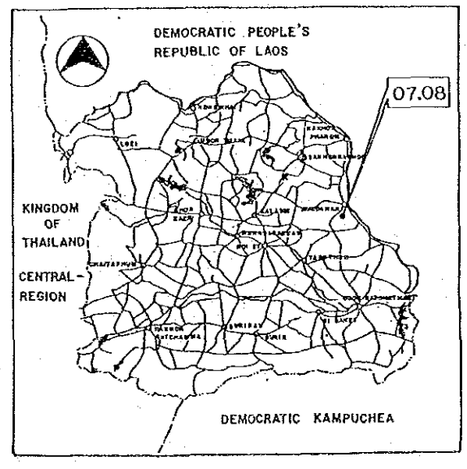


SUBSTRUCTURE PIER

SCALE 1 : 100

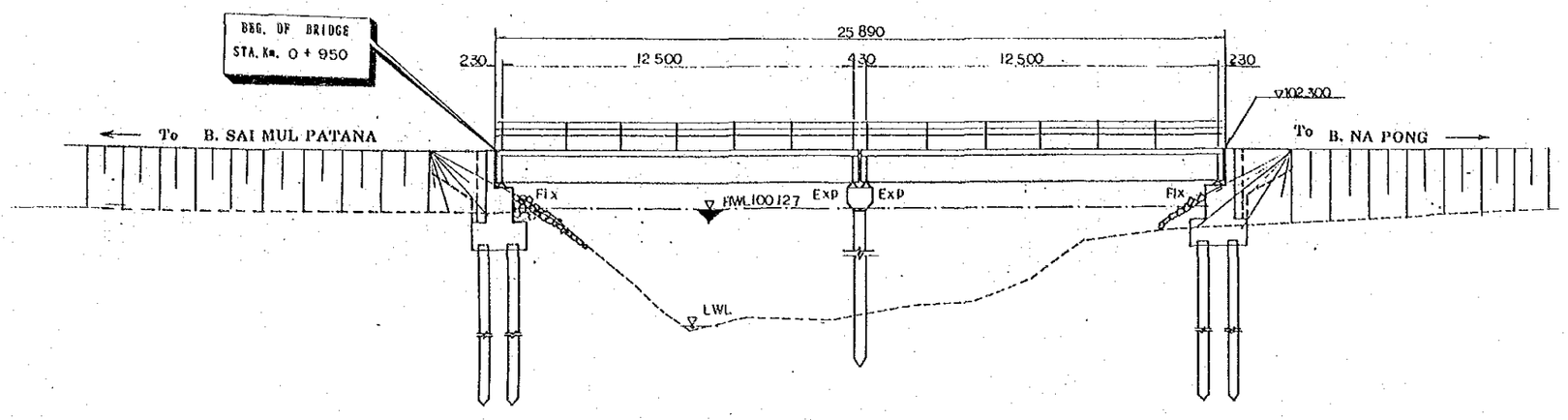
GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg/m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure Fc' ≥ 210 kg/cm²
   Substructure Fc' ≥ 210 kg/cm²
   Concrete Pile Fc' ≥ 240 kg/cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.

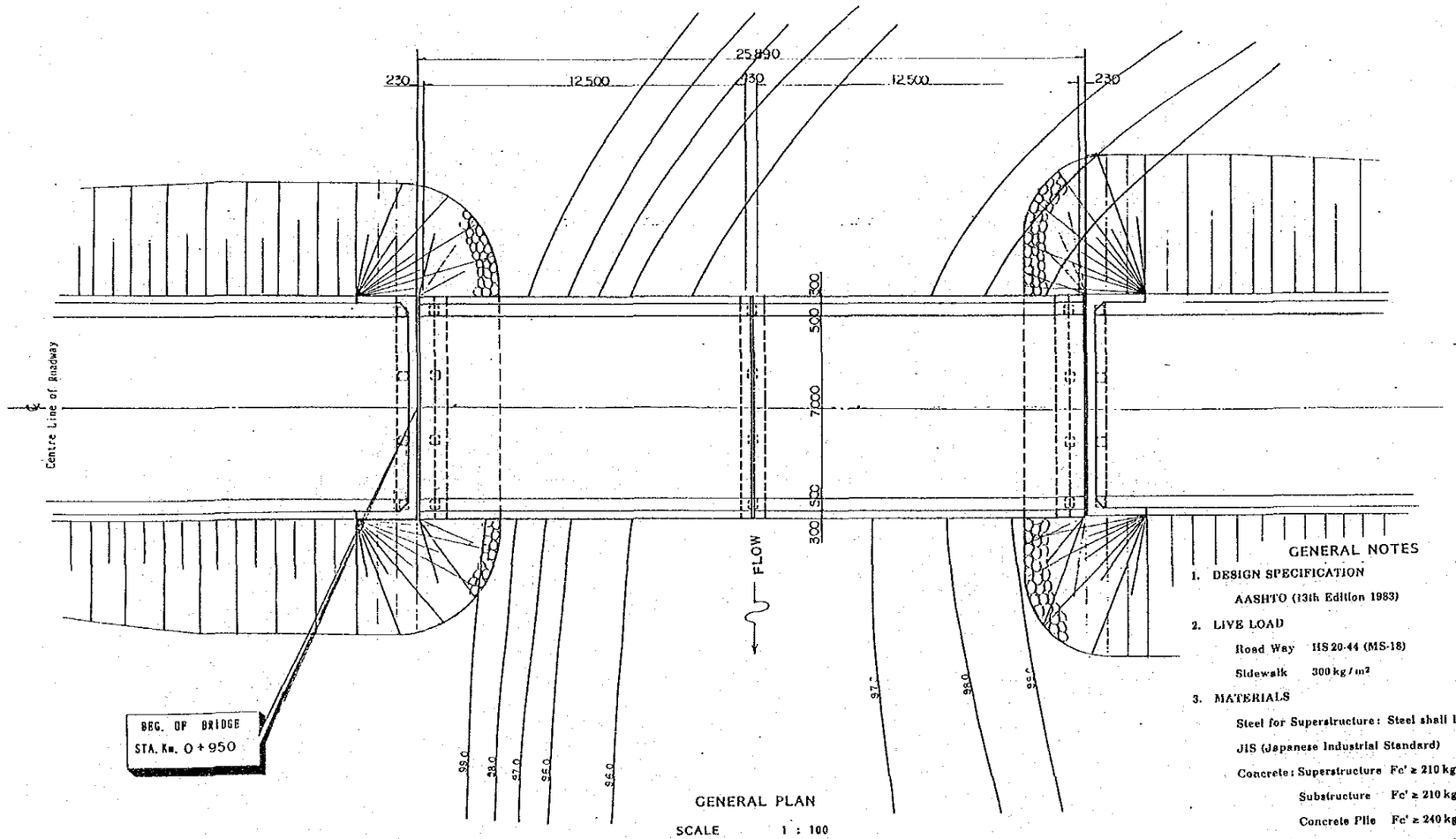


BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

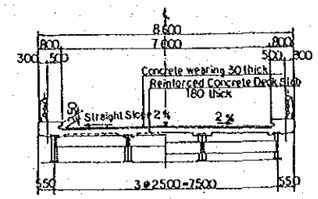
Bridge No.		Sheet No.
08.01	Huai Nang Pla Sum Bridge A. Sai Mun-Ban Na Pong Road (A. Sai Mun)	



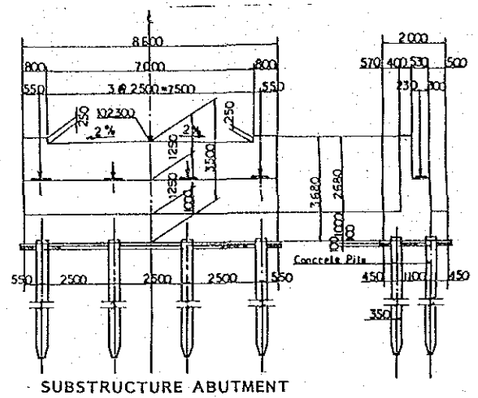
GENERAL ELEVATION
SCALE 1 : 100



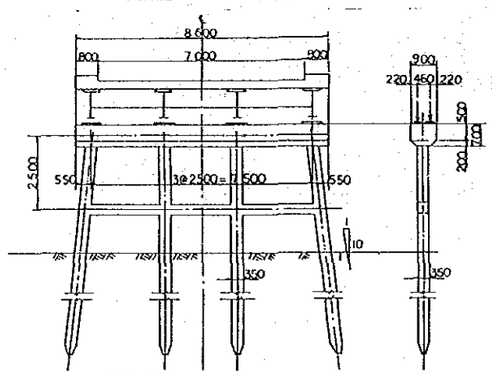
GENERAL PLAN
SCALE 1 : 100



SUPERSTRUCTURE CROSS SECTION
SCALE 1 : 100



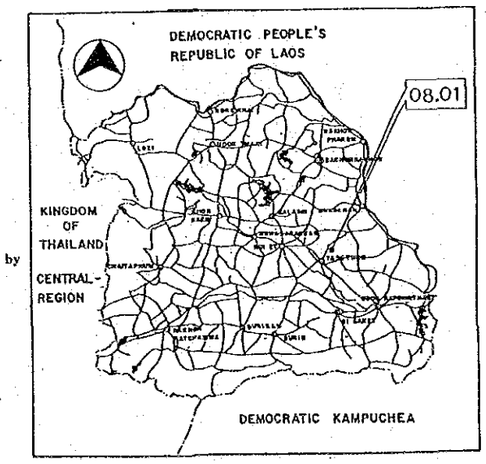
SUBSTRUCTURE ABUTMENT
SCALE 1 : 100



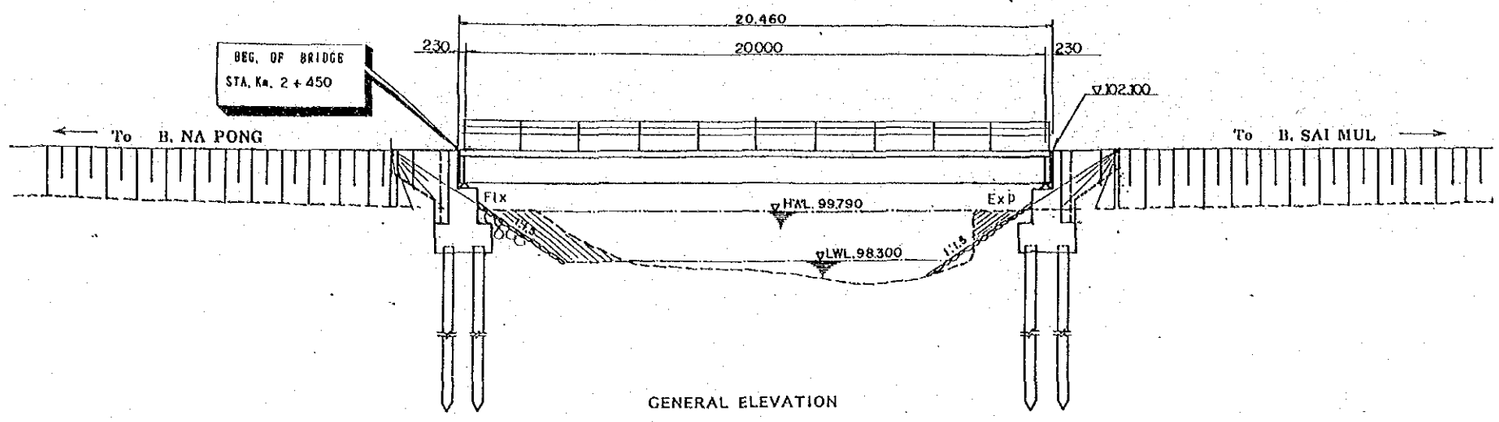
SUBSTRUCTURE PIER
SCALE 1 : 100

GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg / m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure Fc' ≥ 210 kg / cm²
   Substructure Fc' ≥ 210 kg / cm²
   Concrete Pile Fc' ≥ 240 kg / cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.

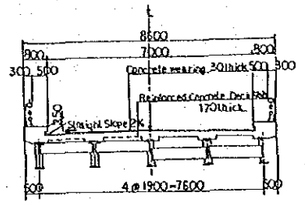


BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND		
Bridge No.	Huai Na Pong Bridge (A. Sai Mun-Ban Na Pong Rd.) (A. Sai Mun)	Sheet No.
08.02		



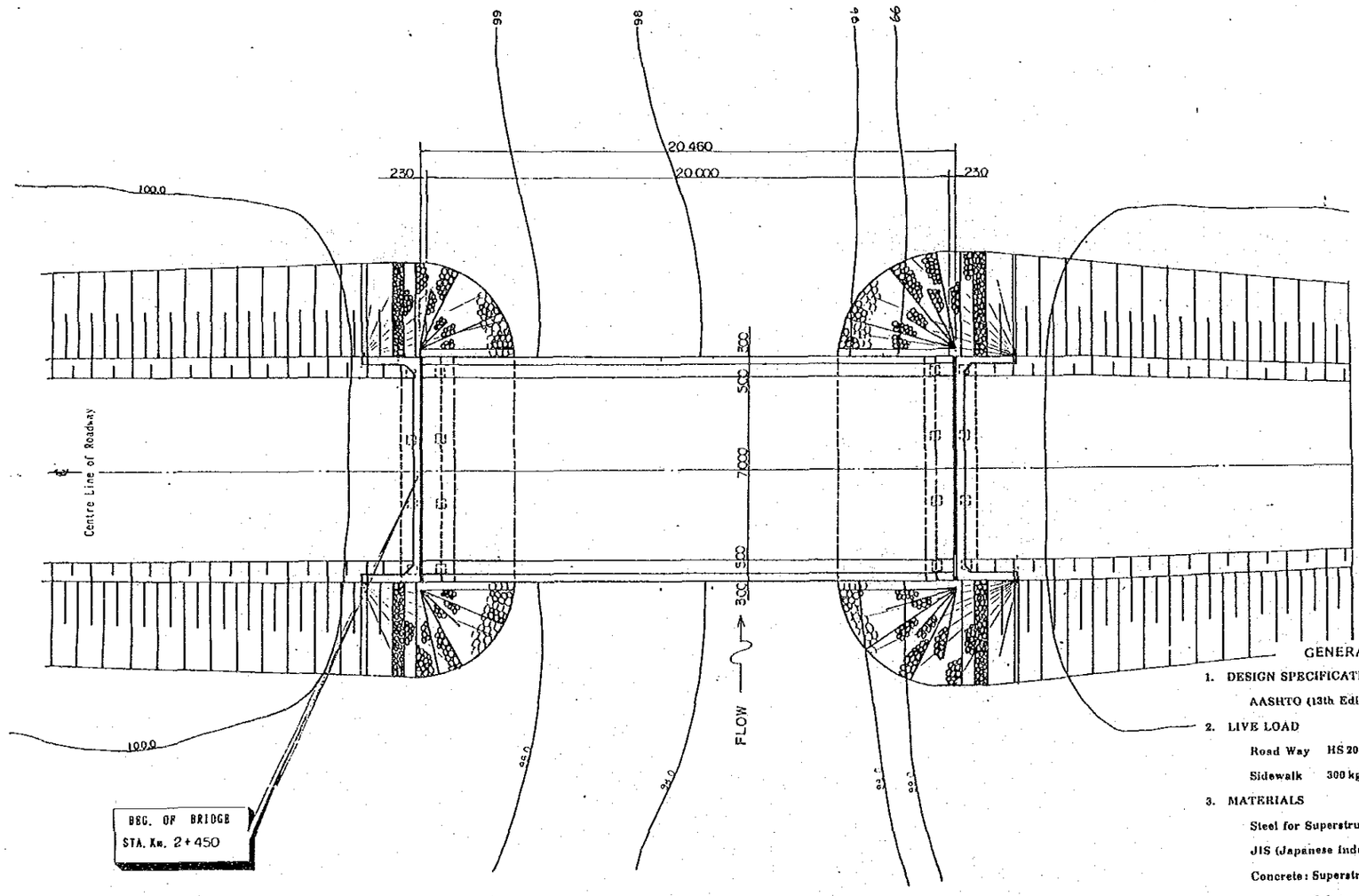
GENERAL ELEVATION

SCALE 1 : 100



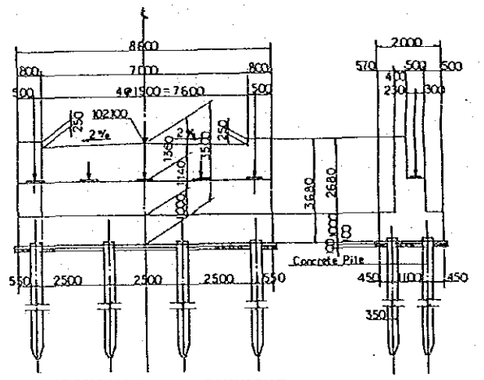
SUPERSTRUCTURE CROSS SECTION

SCALE 1 : 100



GENERAL PLAN

SCALE 1 : 100

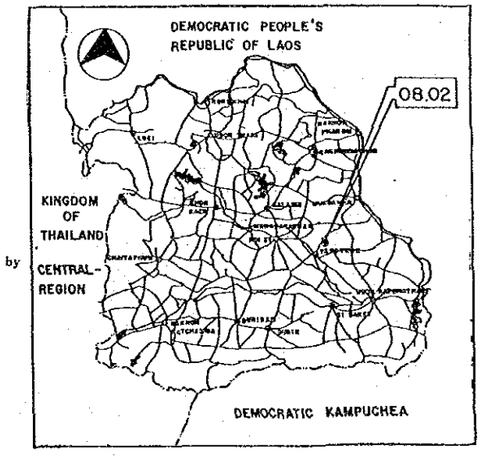


SUBSTRUCTURE ABUTMENT

SCALE 1 : 100

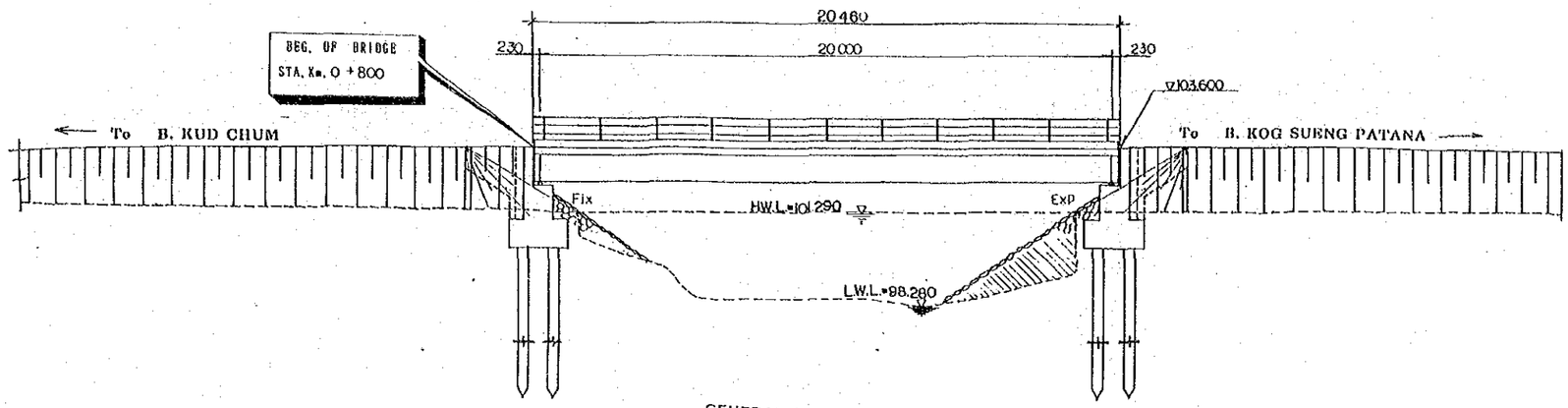
GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg/m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure $Fc' \geq 210\ kg/cm^2$
   Substructure $Fc' \geq 210\ kg/cm^2$
   Concrete Pile $Fc' \geq 240\ kg/cm^2$
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.

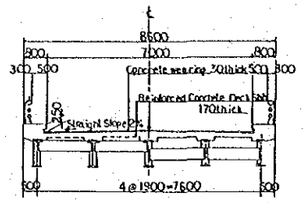


BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

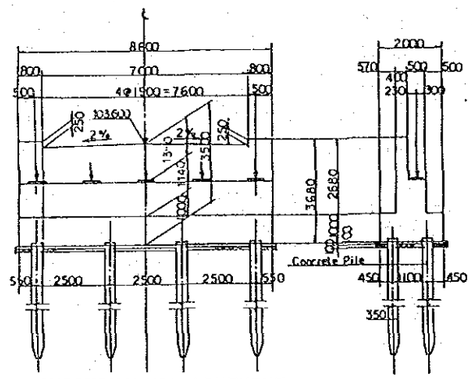
Bridge No.		Sheet No.
08.03	Huai Khaen Bridge A. Kut Chum-Ban Khok Sung Rd., (A. Kut Chum)	



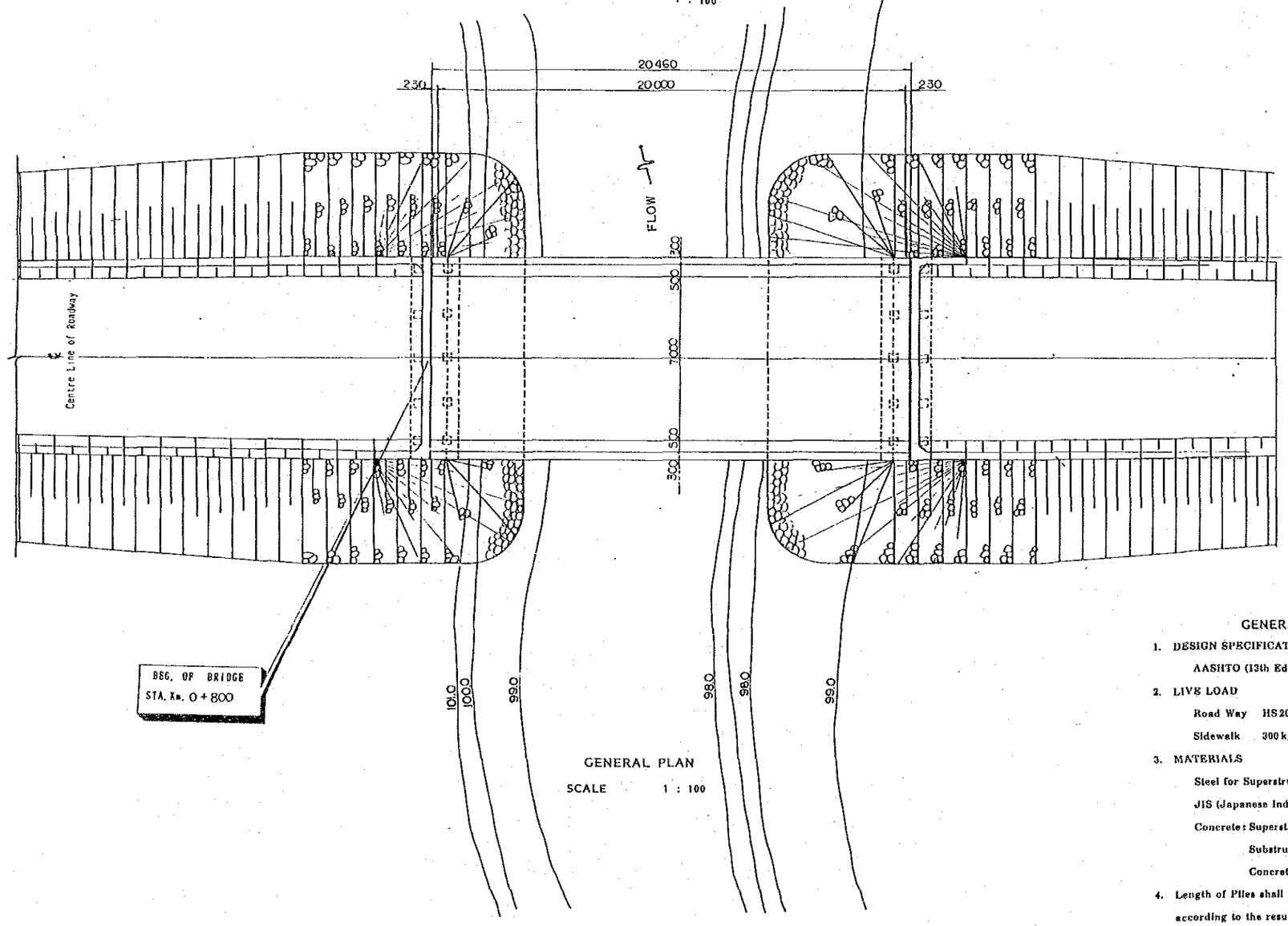
GENERAL ELEVATION
SCALE 1 : 100



SUPERSTRUCTURE CROSS SECTION
SCALE 1 : 100



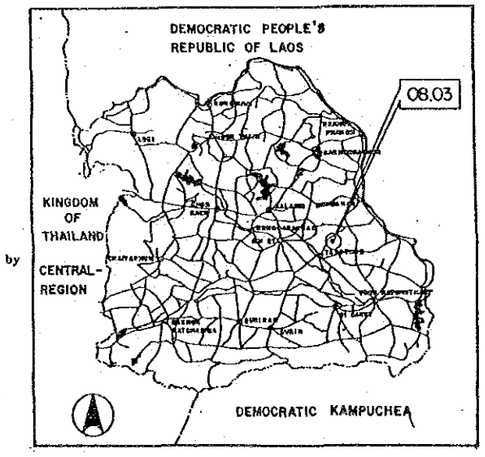
SUBSTRUCTURE ABUTMENT
SCALE 1 : 100



GENERAL PLAN
SCALE 1 : 100

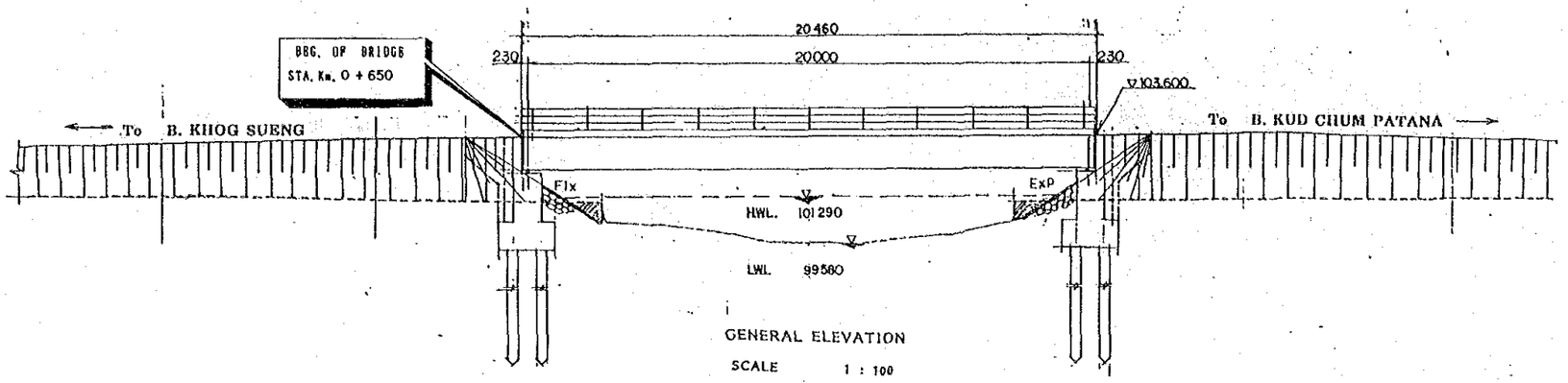
GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg/m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure Fc' ≥ 210 kg/cm²
   Substructure Fc' ≥ 210 kg/cm²
   Concrete Pile Fc' ≥ 240 kg/cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.

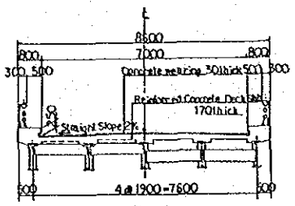


BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

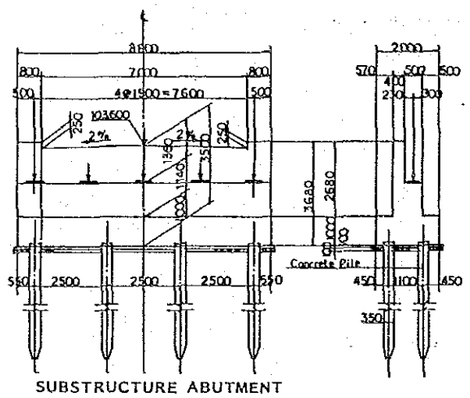
Bridge No.	Huai Khaen Long No.1 Bridge A.Kut Chum – Ban Khok Sung Rd. (A.Kut Chum)	Sheet No.
08.04		



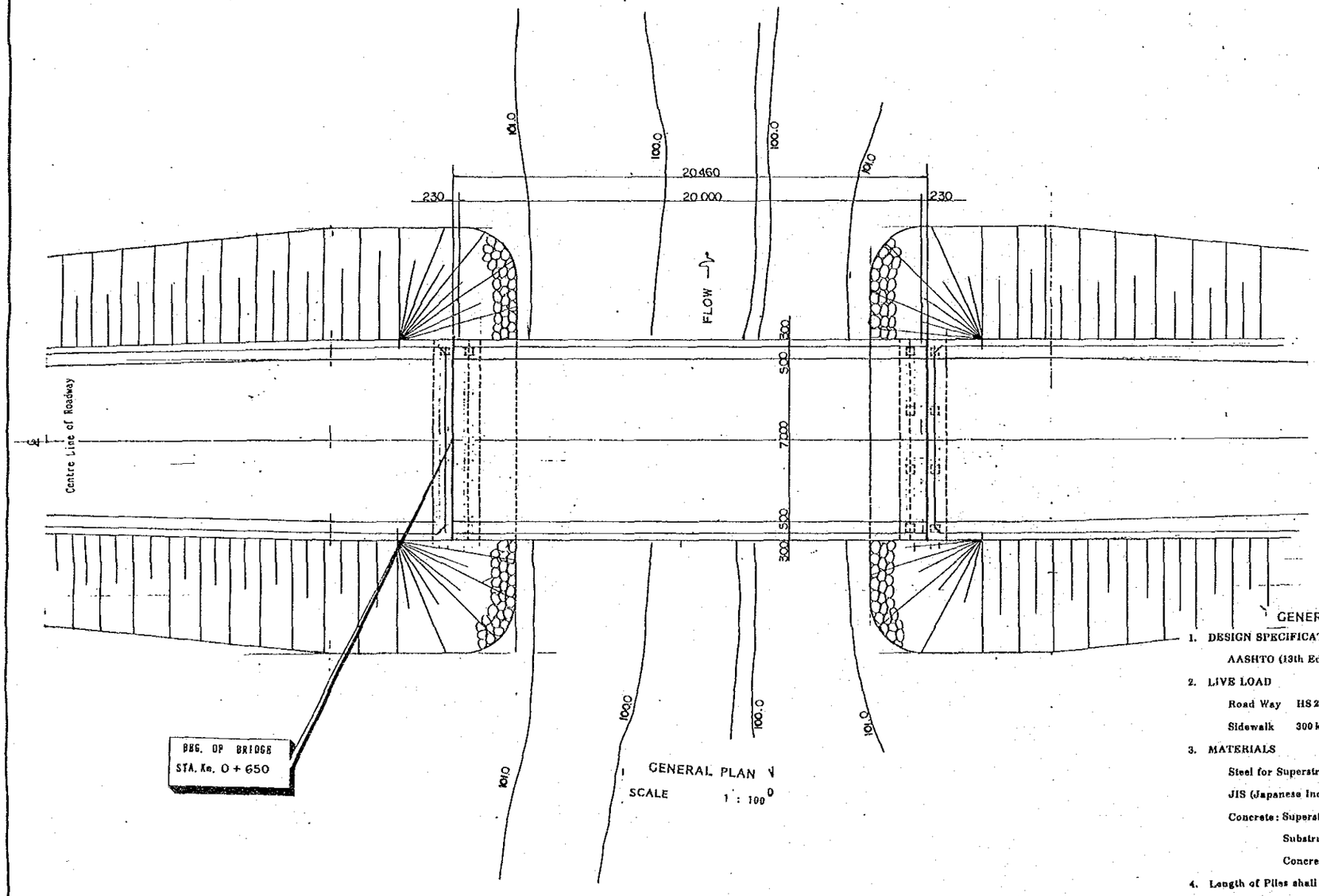
GENERAL ELEVATION
SCALE 1 : 100



SUPERSTRUCTURE CROSS SECTION
SCALE 1 : 100



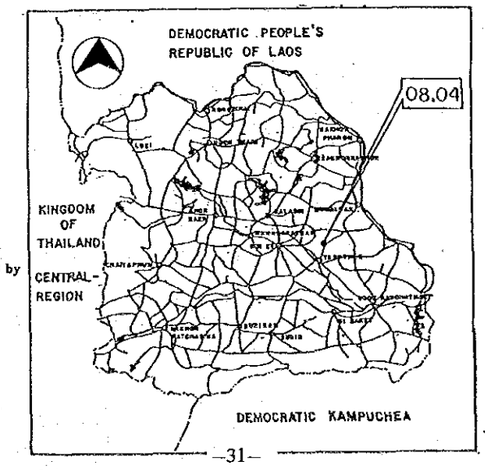
SUBSTRUCTURE ABUTMENT
SCALE 1 : 100



GENERAL PLAN
SCALE 1 : 1000

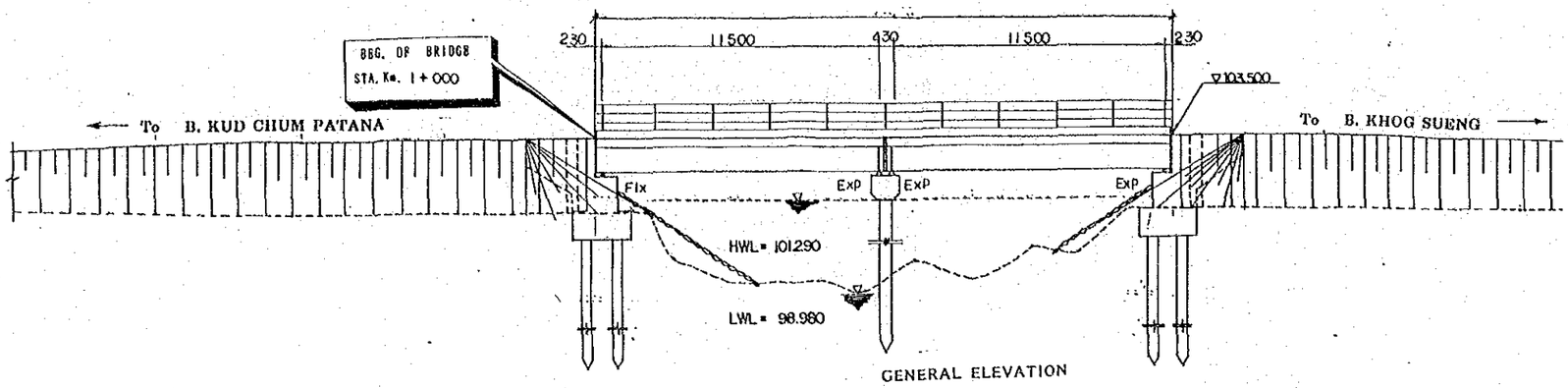
GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg/m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure Fc' ≥ 210 kg/cm²
   Substructure Fc' ≥ 210 kg/cm²
   Concrete Pile Fc' ≥ 240 kg/cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.



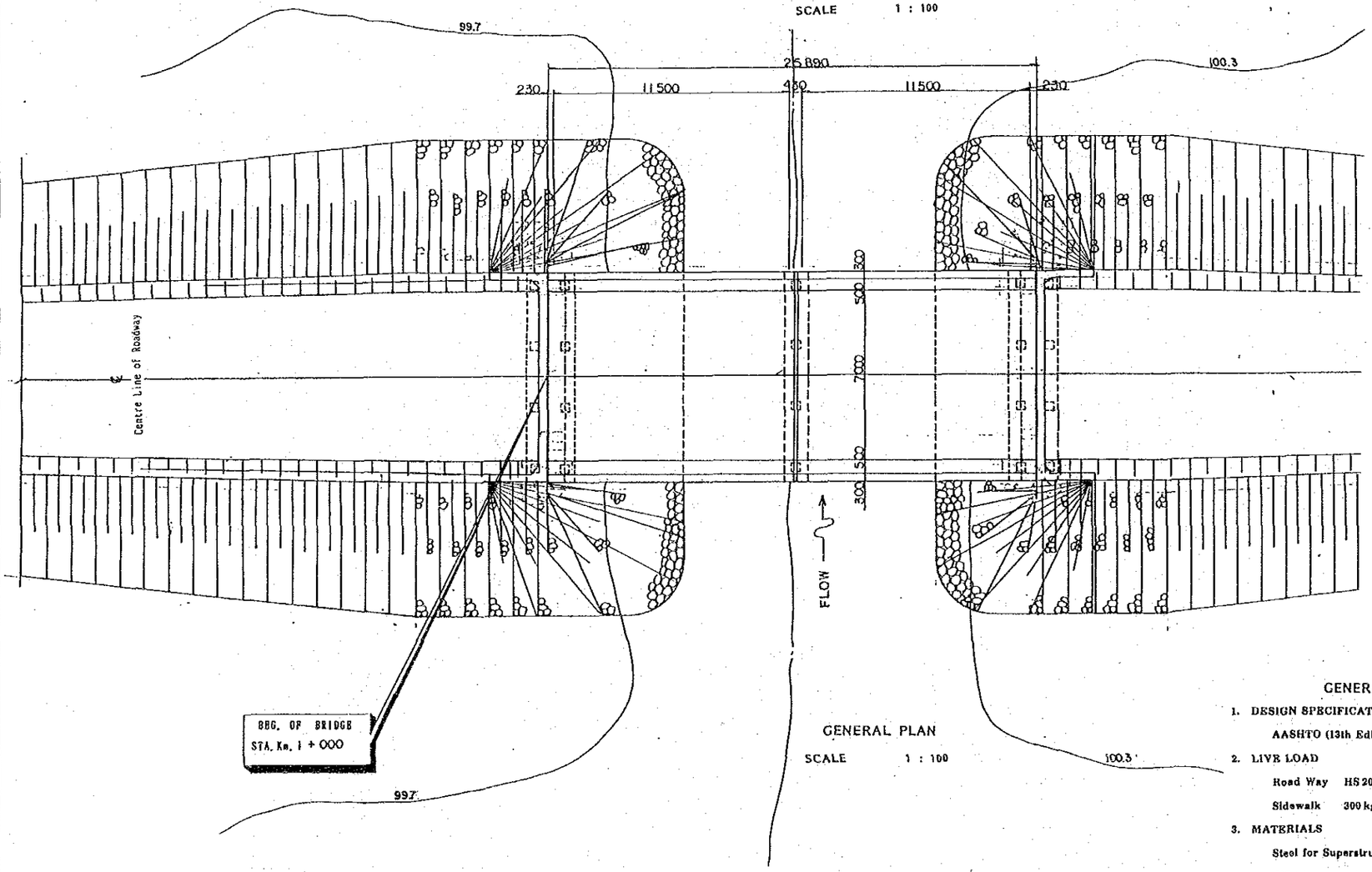
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge NO.	Huai Khaen Long No.2 Bridge A. Kut Chum - Ban Khok Sung Rd. (A. Kut Chum)	Sheet NO
08.05		



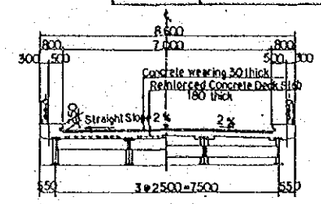
GENERAL ELEVATION

SCALE 1 : 100



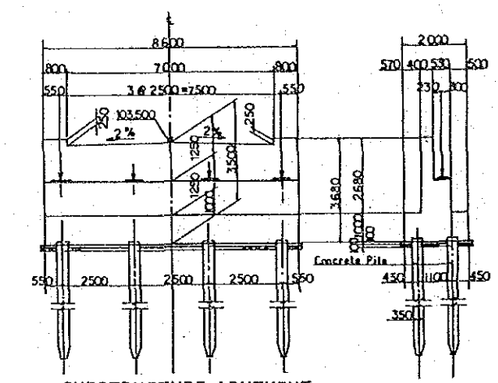
GENERAL PLAN

SCALE 1 : 100



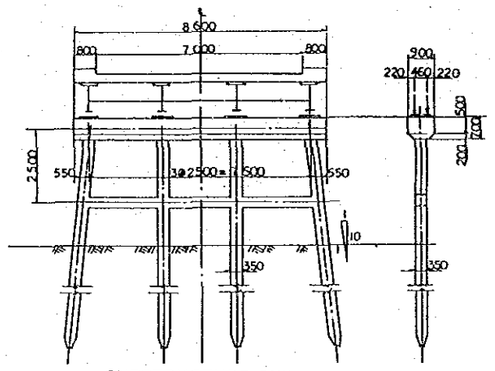
SUPERSTRUCTURE CROSS SECTION

SCALE 1 : 100



SUBSTRUCTURE ABUTMENT

SCALE 1 : 100

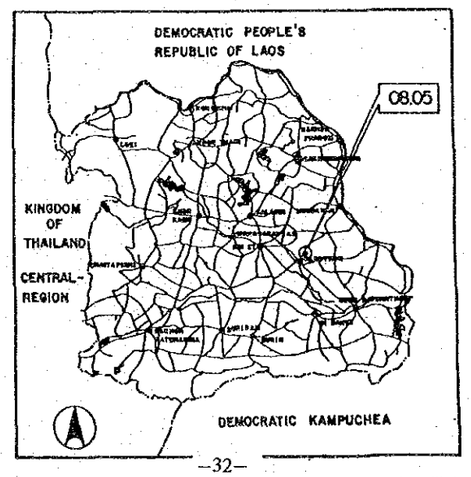


SUBSTRUCTURE PIER

SCALE 1 : 100

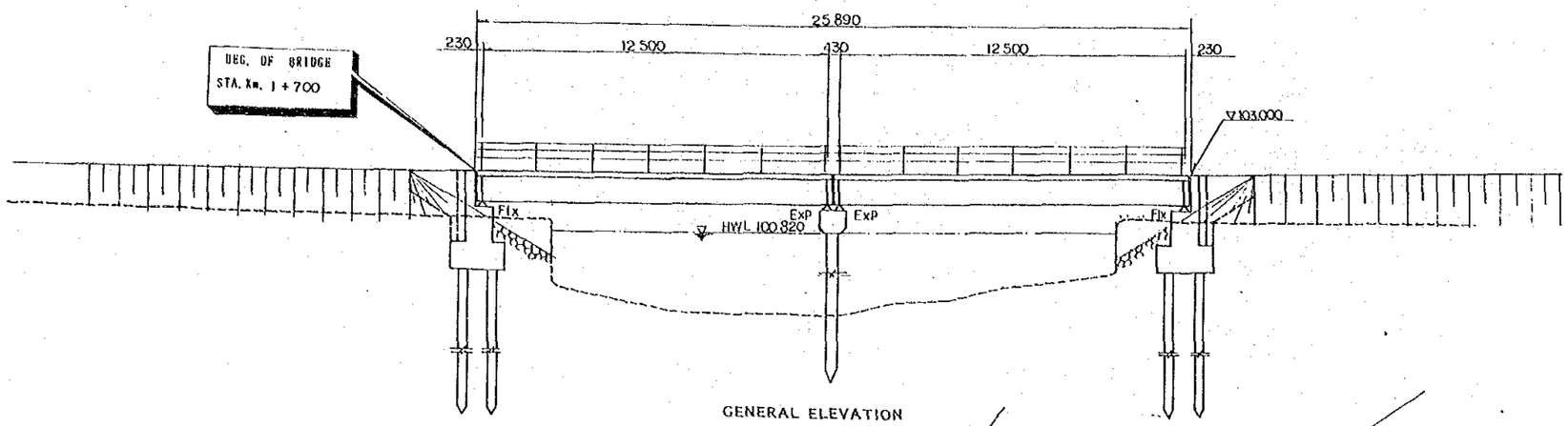
GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg/m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure Fc' ≥ 210 kg/cm²
   Substructure Fc' ≥ 210 kg/cm²
   Concrete Pile Fc' ≥ 240 kg/cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.



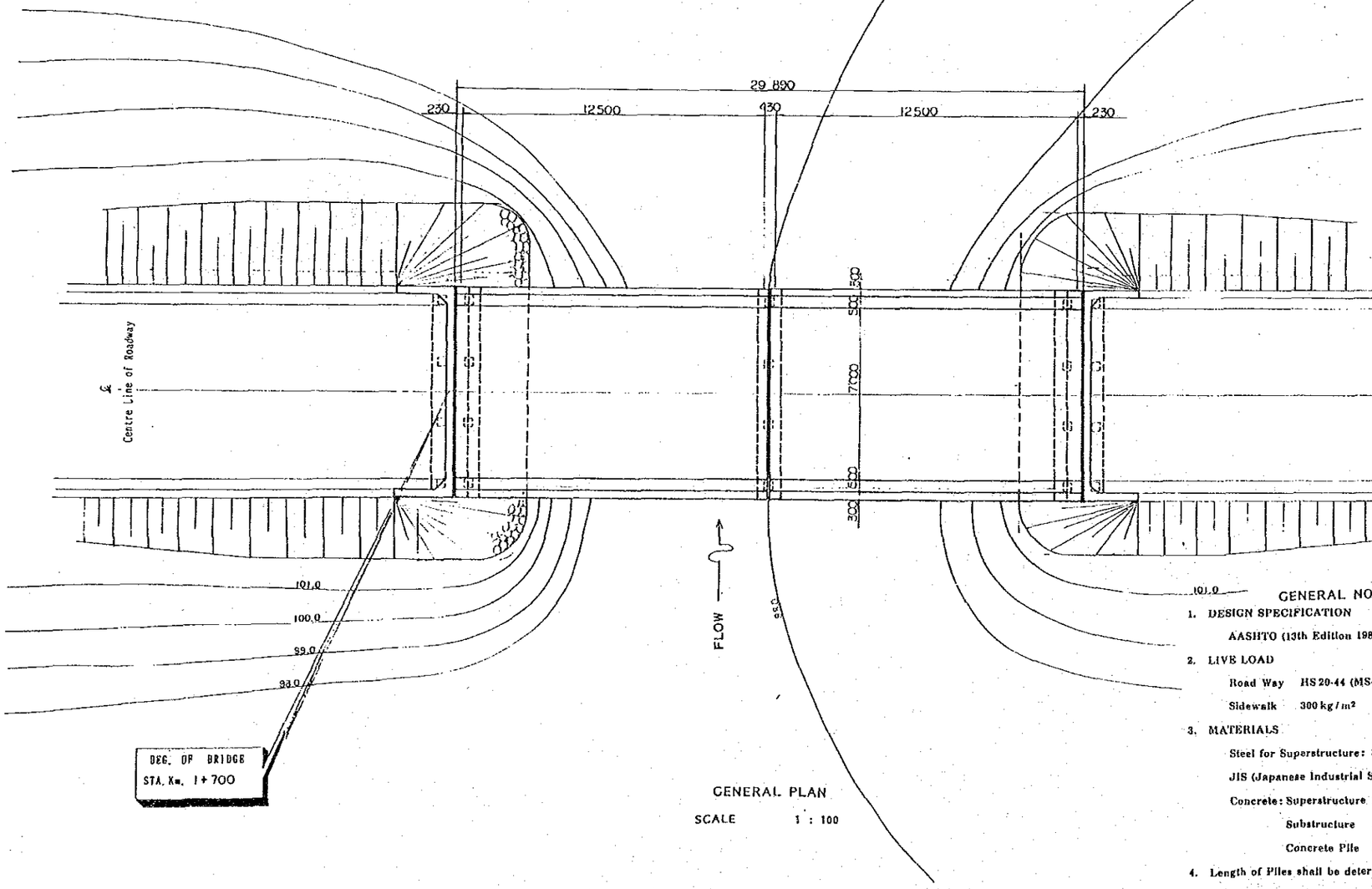
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge No.		Sheet No.
09.01	Huai Pla Pong Bridge Ban Non Yang-Ban Sathon Rd. (A. Saiaphum)	



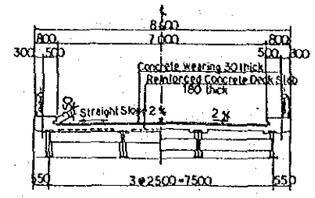
GENERAL ELEVATION

SCALE 1 : 100



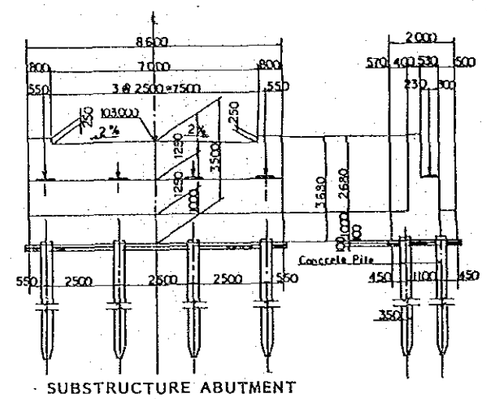
GENERAL PLAN

SCALE 1 : 100



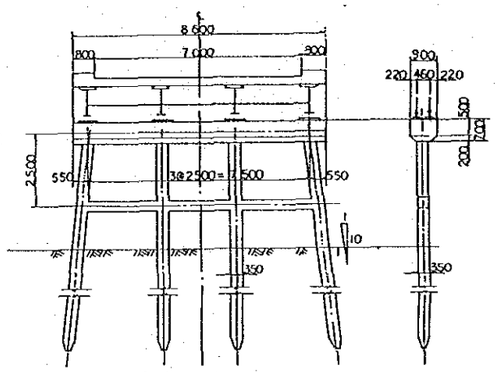
SUPERSTRUCTURE CROSS SECTION

SCALE 1 : 100



SUBSTRUCTURE ABUTMENT

SCALE 1 : 100

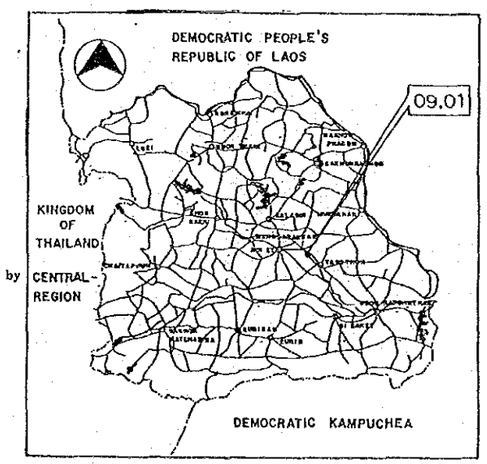


SUBSTRUCTURE PIER

SCALE 1 : 100

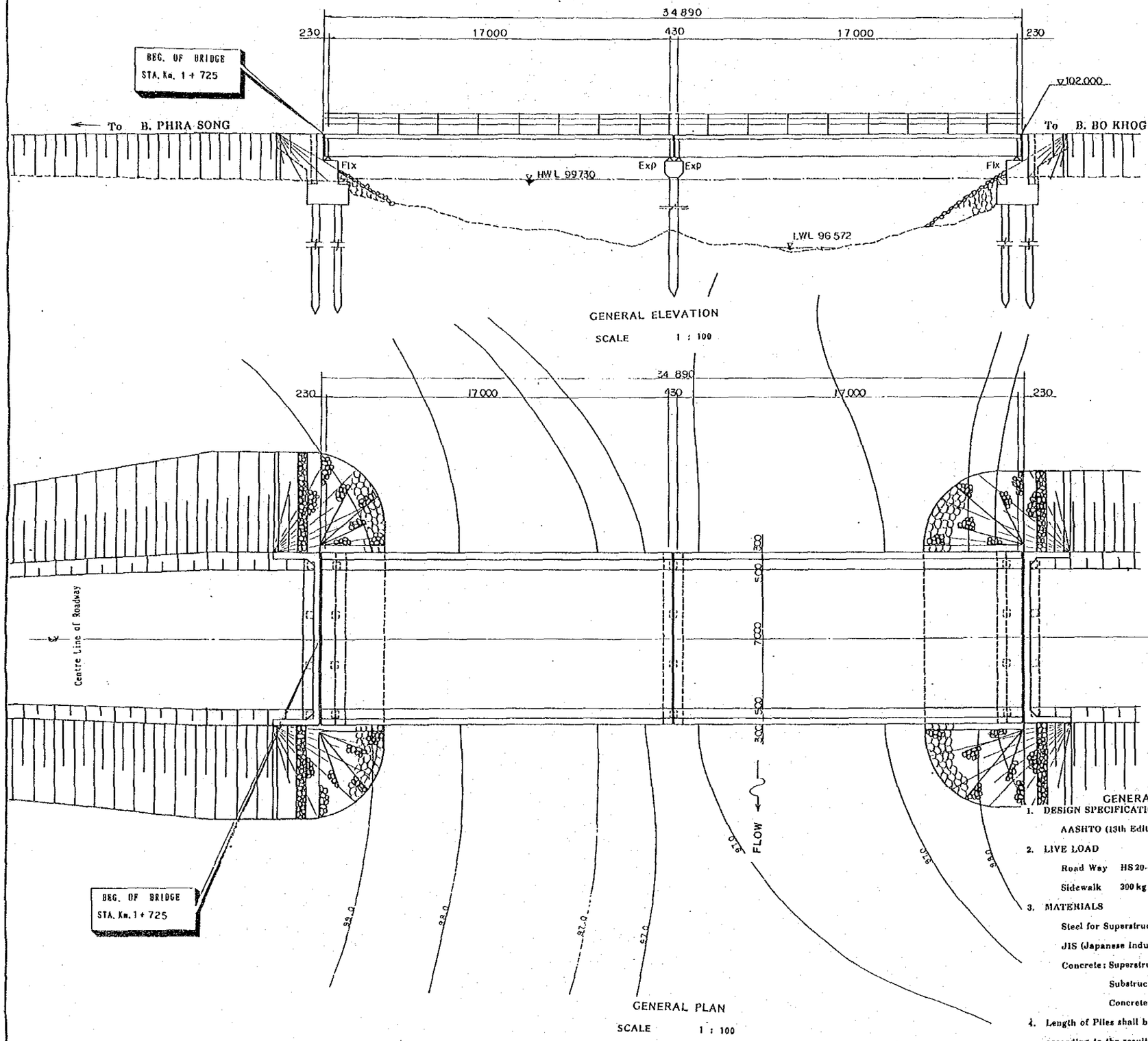
GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg / m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure Fc' ≥ 210 kg / cm²
   Substructure Fc' ≥ 210 kg / cm²
   Concrete Pile Fc' ≥ 240 kg / cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.



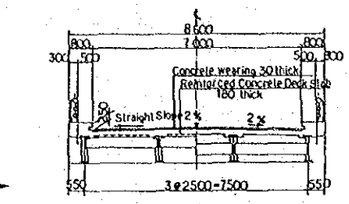
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge No.		Sheet No.
09.03	Huai Siao No.1 Bridge Rt. No. 214 - Ban Hua Nong Road (A. Kaset Wisai)	

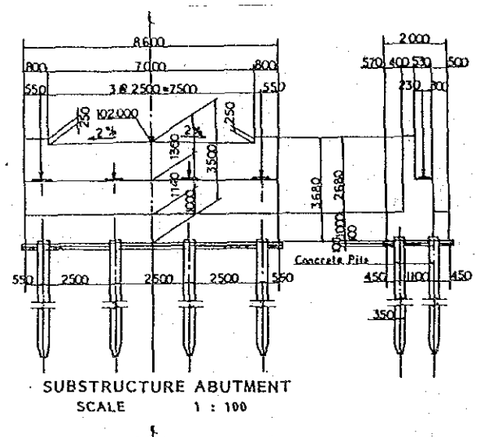


GENERAL ELEVATION
SCALE 1 : 100

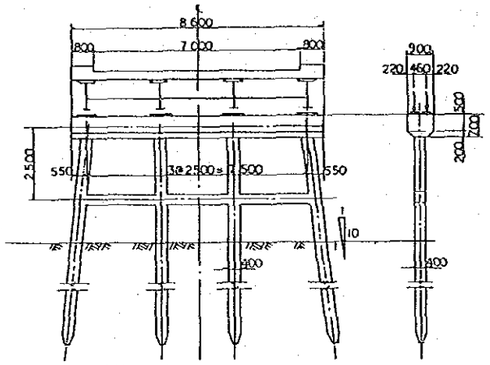
GENERAL PLAN
SCALE 1 : 100



SUPERSTRUCTURE CROSS SECTION
SCALE 1 : 100



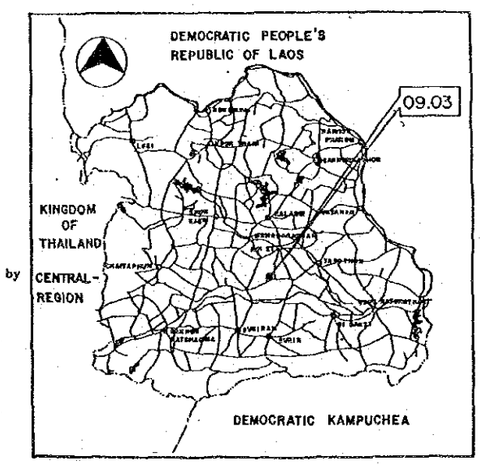
SUBSTRUCTURE ABUTMENT
SCALE 1 : 100



SUBSTRUCTURE PIER
SCALE 1 : 100

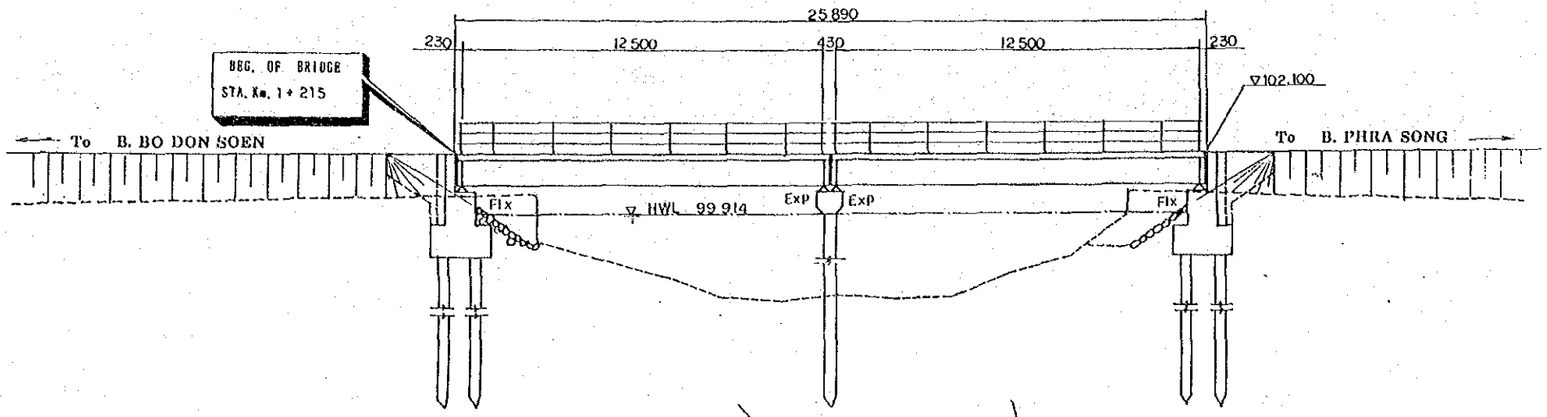
GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg/m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure Fc' ≥ 210 kg/cm²
   Substructure Fc' ≥ 210 kg/cm²
   Concrete Pile Fc' ≥ 240 kg/cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.

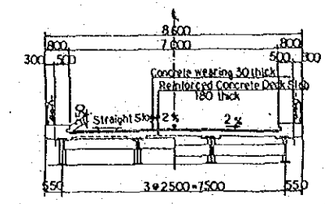


BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

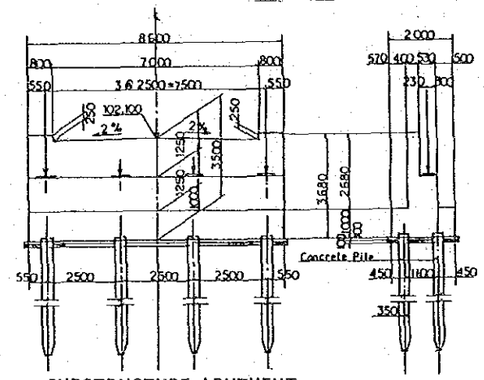
Bridge No.		Sheet No.
09.04	Huai Siao No.2 Bridge Ban I-Khot-Ban Hua Nong Road (A.Kaset Wisai)	



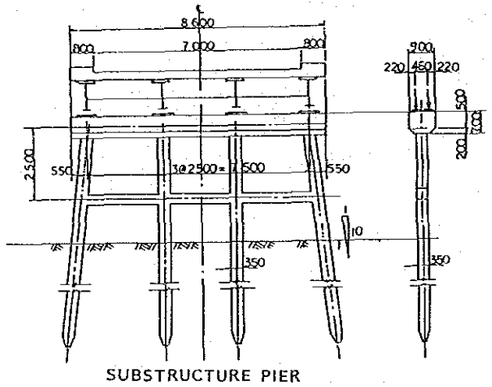
GENERAL ELEVATION
SCALE 1 : 100



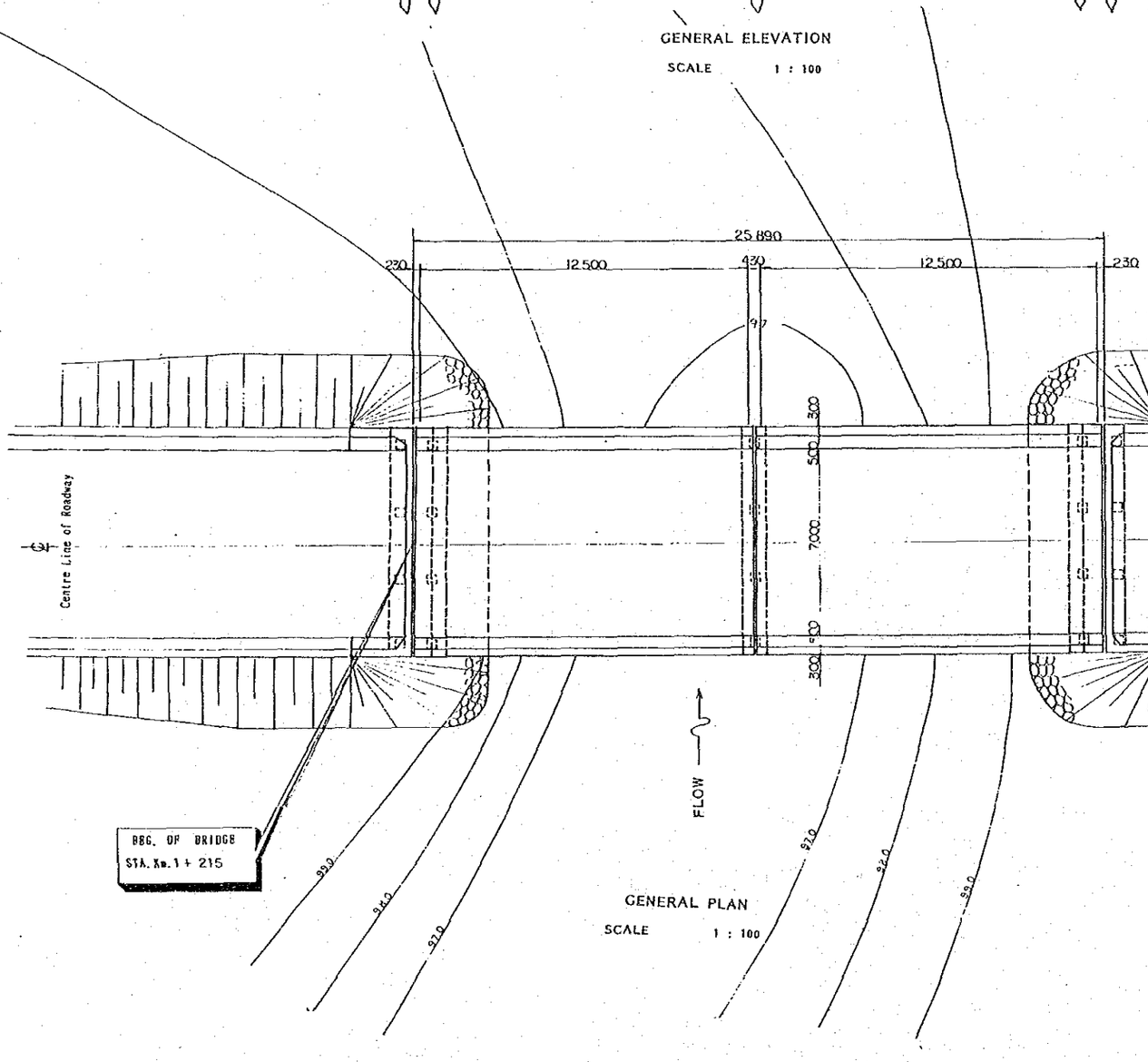
SUPERSTRUCTURE CROSS SECTION
SCALE 1 : 100



SUBSTRUCTURE ABUTMENT
SCALE 1 : 100



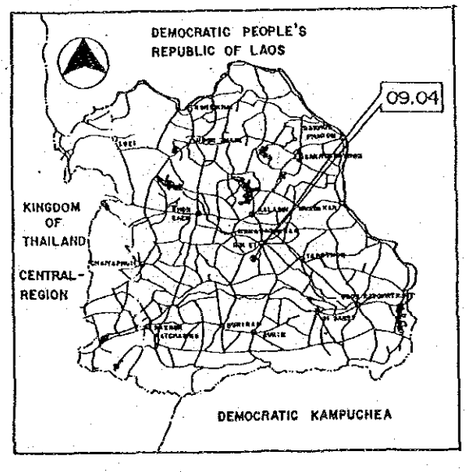
SUBSTRUCTURE PIER
SCALE 1 : 100



GENERAL PLAN
SCALE 1 : 100

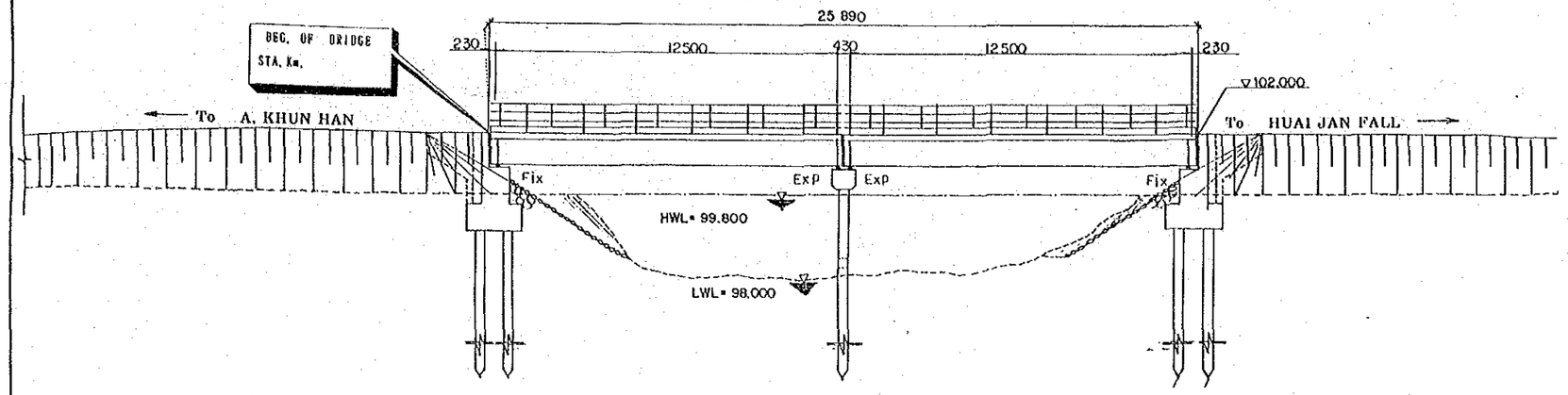
GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg/m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure Fc' ≥ 210 kg/cm²
   Substructure Fc' ≥ 210 kg/cm²
   Concrete Pile Fc' ≥ 240 kg/cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.

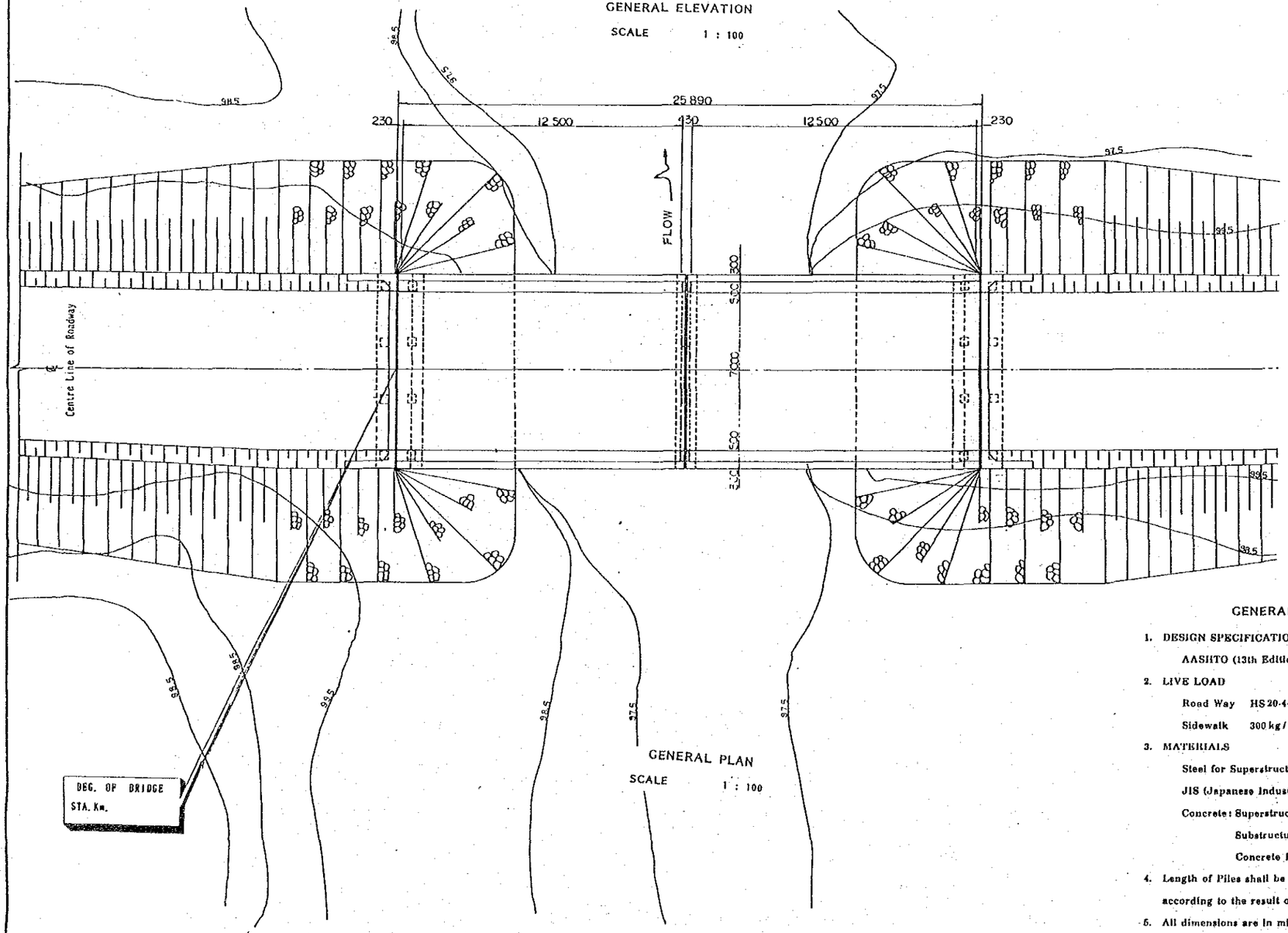


BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

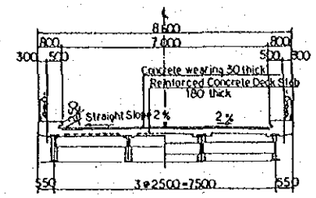
Bridge No.		Sheet No.
10.01	Huai Pakan Muang Bridge Ban Sikhunhan Ban Nong Phu Rd. (A., Khun Han)	



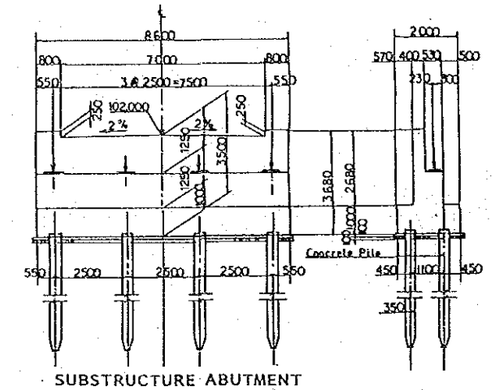
GENERAL ELEVATION
SCALE 1 : 100



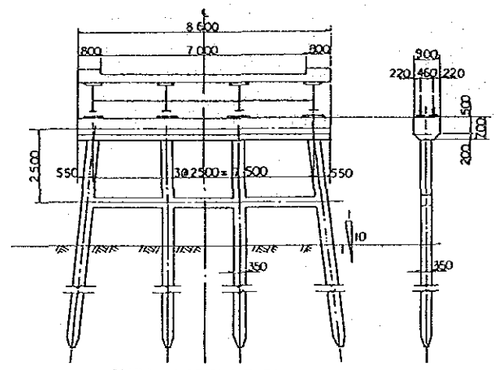
GENERAL PLAN
SCALE 1 : 100



SUPERSTRUCTURE CROSS SECTION
SCALE 1 : 100



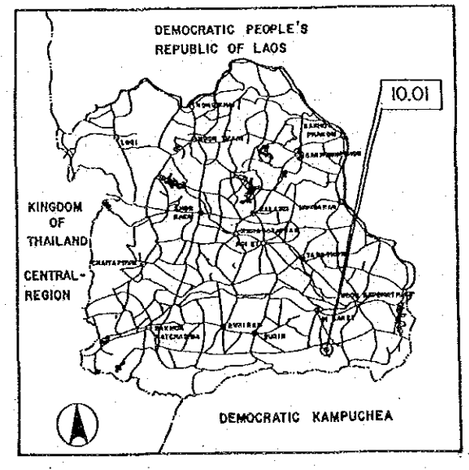
SUBSTRUCTURE ABUTMENT
SCALE 1 : 100



SUBSTRUCTURE PIER
SCALE 1 : 100

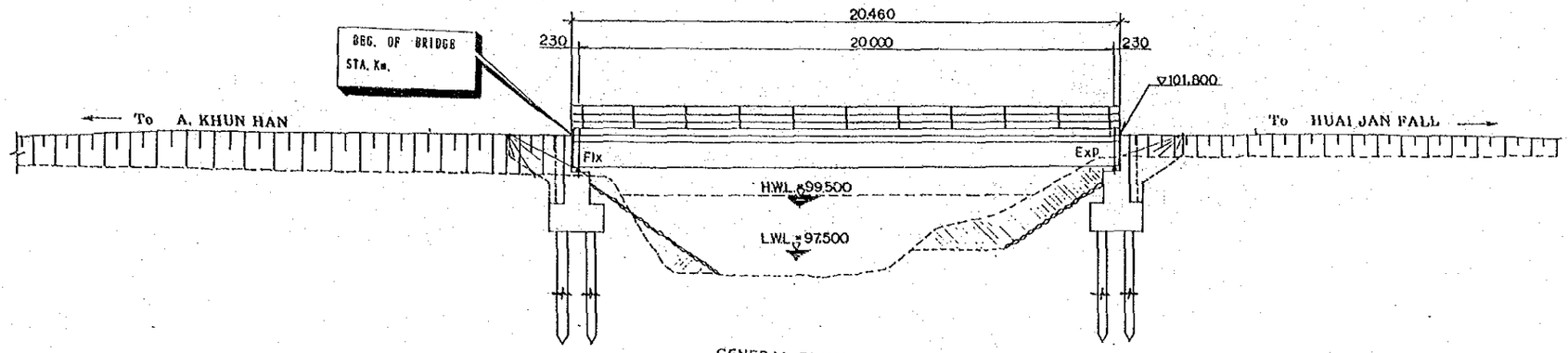
GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg/m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure Fc' ≥ 210 kg/cm²
   Substructure Fc' ≥ 210 kg/cm²
   Concrete Pile Fc' ≥ 240 kg/cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.

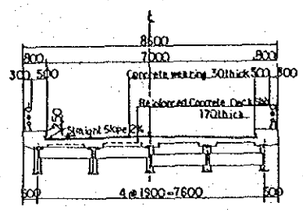


BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

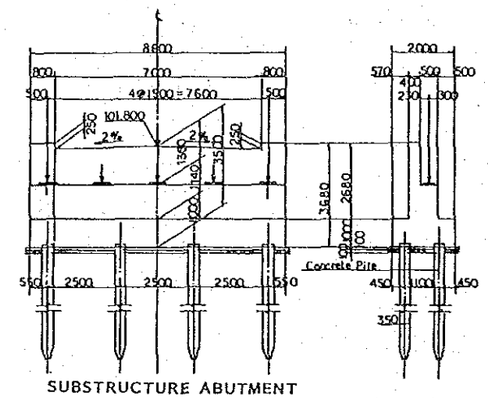
Bridge No.	Huai Kantruat Bridge Ban Silaunhan - Ban Nong Phu Road (A.Khun Han)	Sheet No.
10.02		



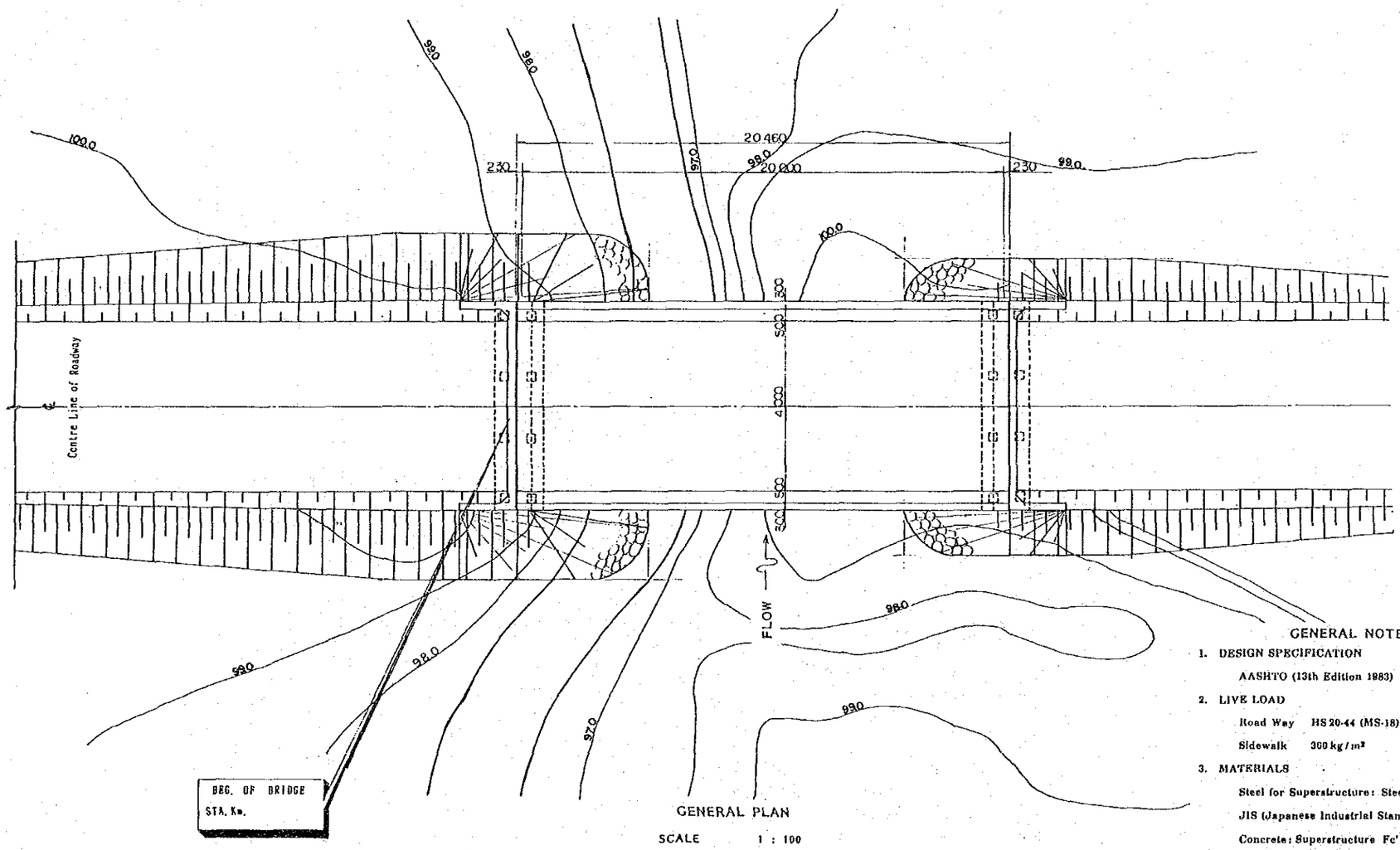
GENERAL ELEVATION
SCALE 1 : 100



SUPERSTRUCTURE CROSS SECTION
SCALE 1 : 100



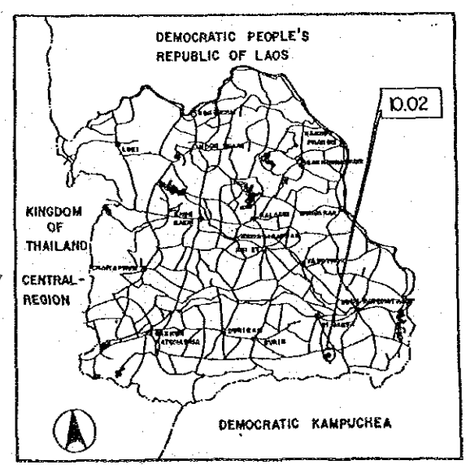
SUBSTRUCTURE ABUTMENT
SCALE 1 : 100



GENERAL PLAN
SCALE 1 : 100

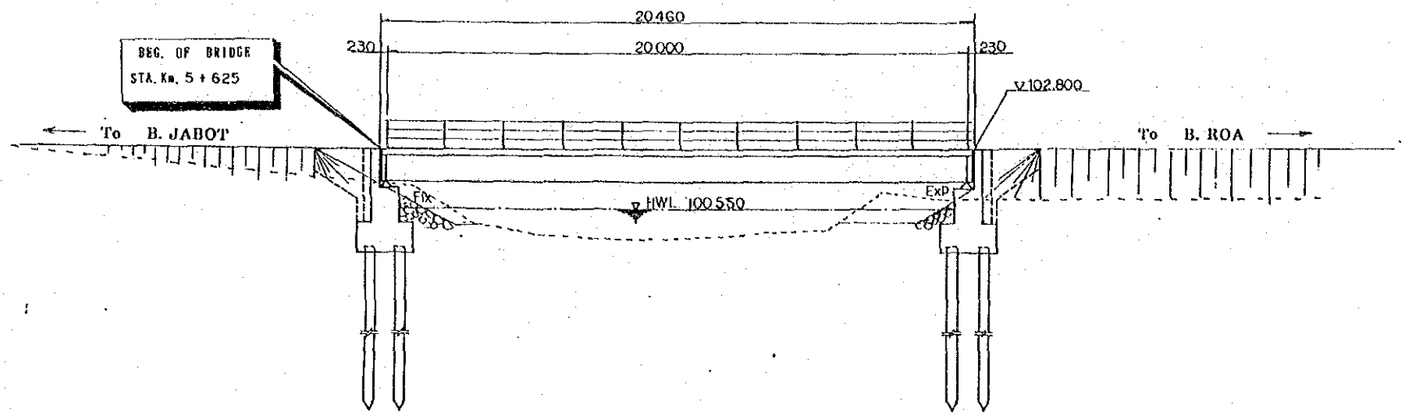
GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg/m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure Fc' ≥ 210 kg/cm²
   Substructure Fc' ≥ 210 kg/cm²
   Concrete Pile Fc' ≥ 240 kg/cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.

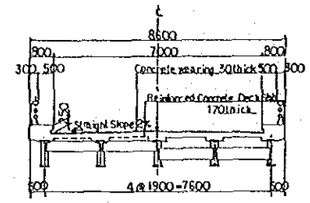


BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

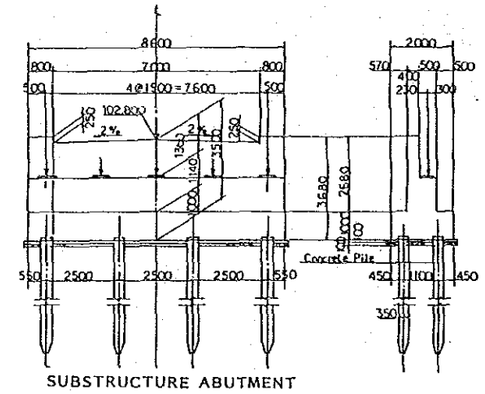
Bridge No.	Huai Thamo Bridge Ban Prasat Beng - Ban Khu Tan Road (A Kap Choeng)	Sheet No.
12.02		



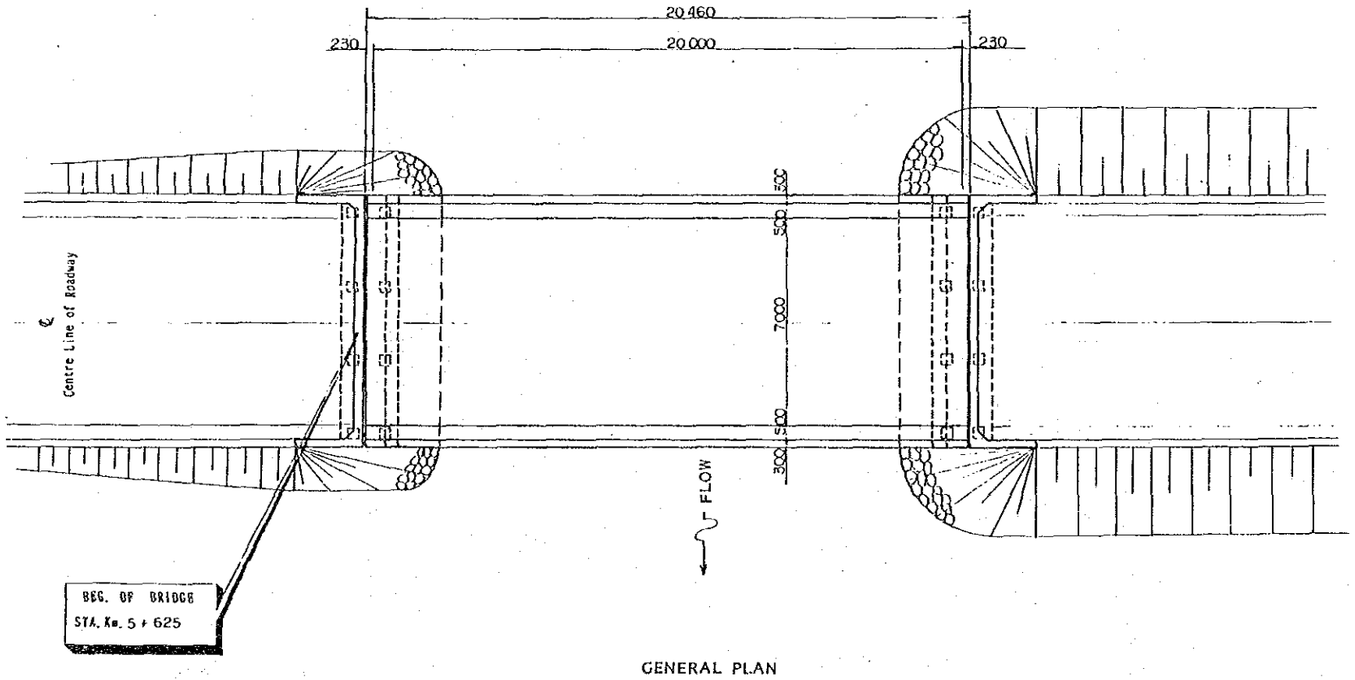
GENERAL ELEVATION
SCALE 1 : 100



SUPERSTRUCTURE CROSS SECTION
SCALE 1 : 100



SUBSTRUCTURE ABUTMENT
SCALE 1 : 100



GENERAL PLAN
SCALE 1 : 100

GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
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3. MATERIALS
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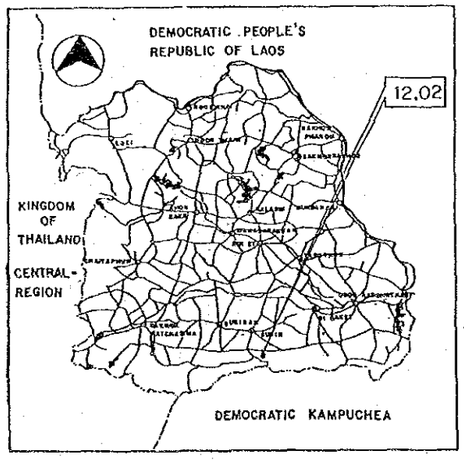
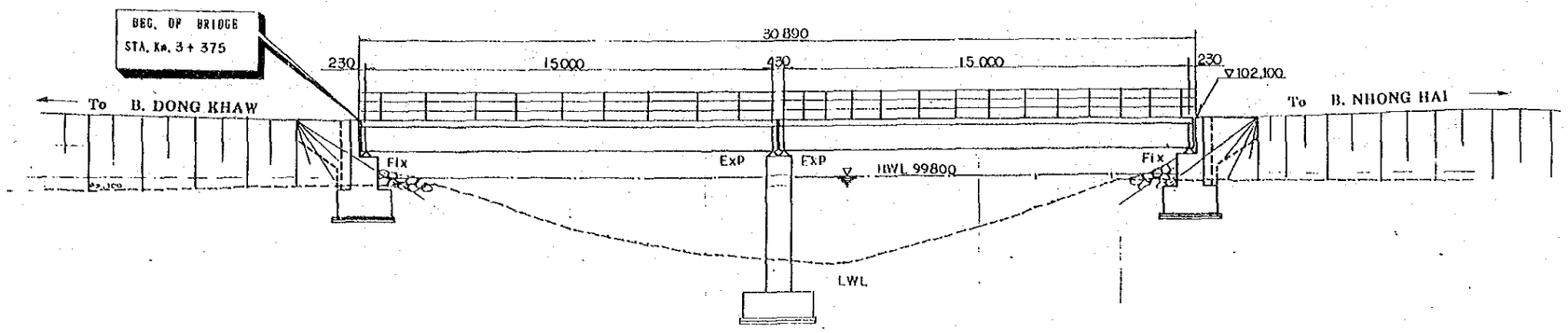
   Concrete: Superstructure Fc' ≥ 210 kg/cm²
   Substructure Fc' ≥ 210 kg/cm²
   Concrete Pile Fc' ≥ 240 kg/cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.

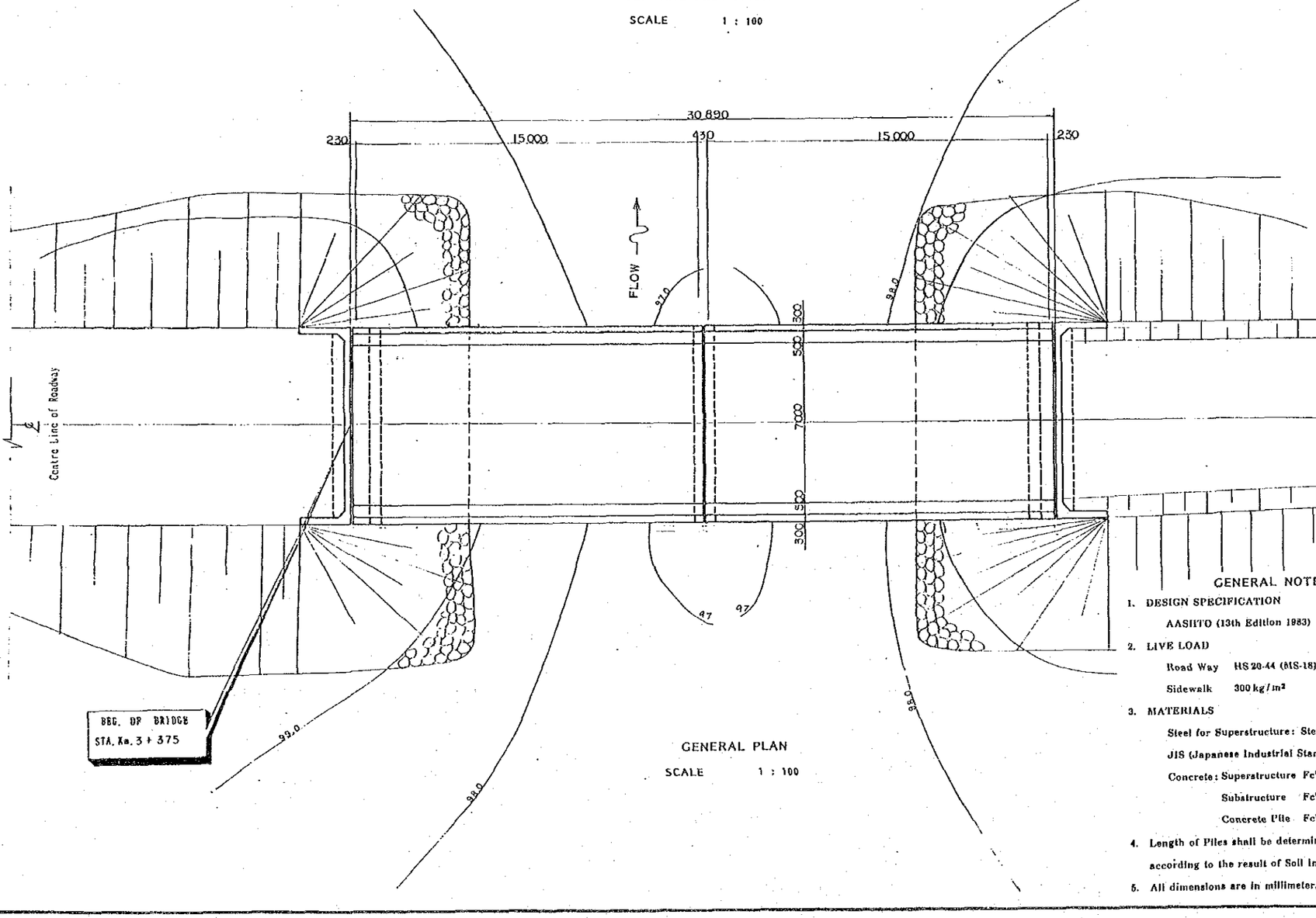


BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

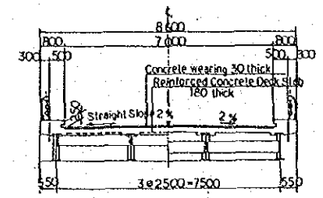
Bridge No.		Sheet No.
15.03	Huai Sa Do Bridge RL No.2172 - Ban Nong Hai Road (A. Phibun Mang Sahan)	



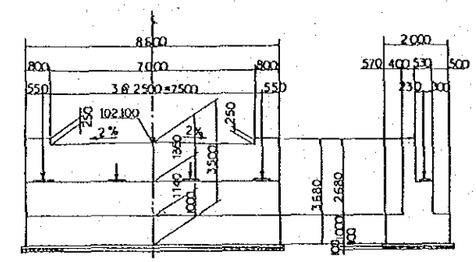
GENERAL ELEVATION
SCALE 1 : 100



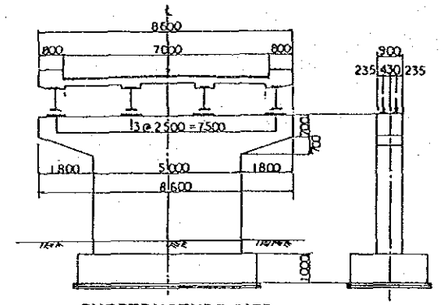
GENERAL PLAN
SCALE 1 : 100



SUPERSTRUCTURE CROSS SECTION
SCALE 1 : 100



SUBSTRUCTURE ABUTMENT
SCALE 1 : 100



SUBSTRUCTURE PIER
SCALE 1 : 100

GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg/m²
3. MATERIALS
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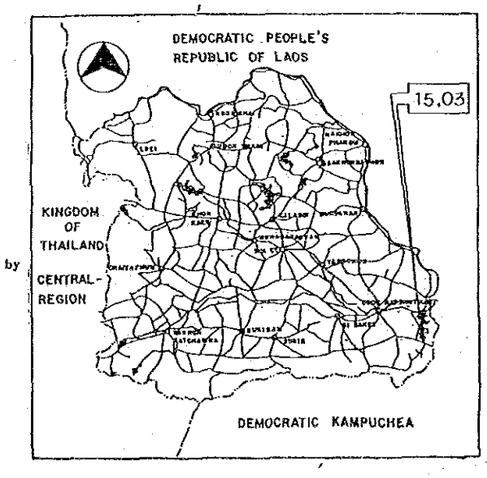
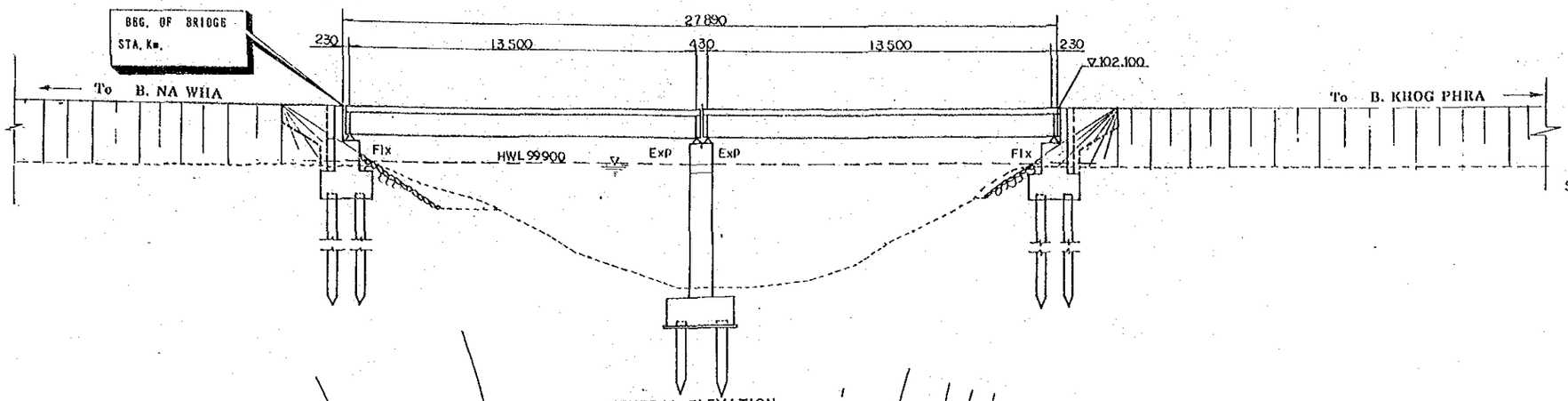
   Concrete: Superstructure Fc' ≥ 210 kg/cm²
   Substructure Fc' ≥ 210 kg/cm²
   Concrete Pile Fc' ≥ 240 kg/cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.

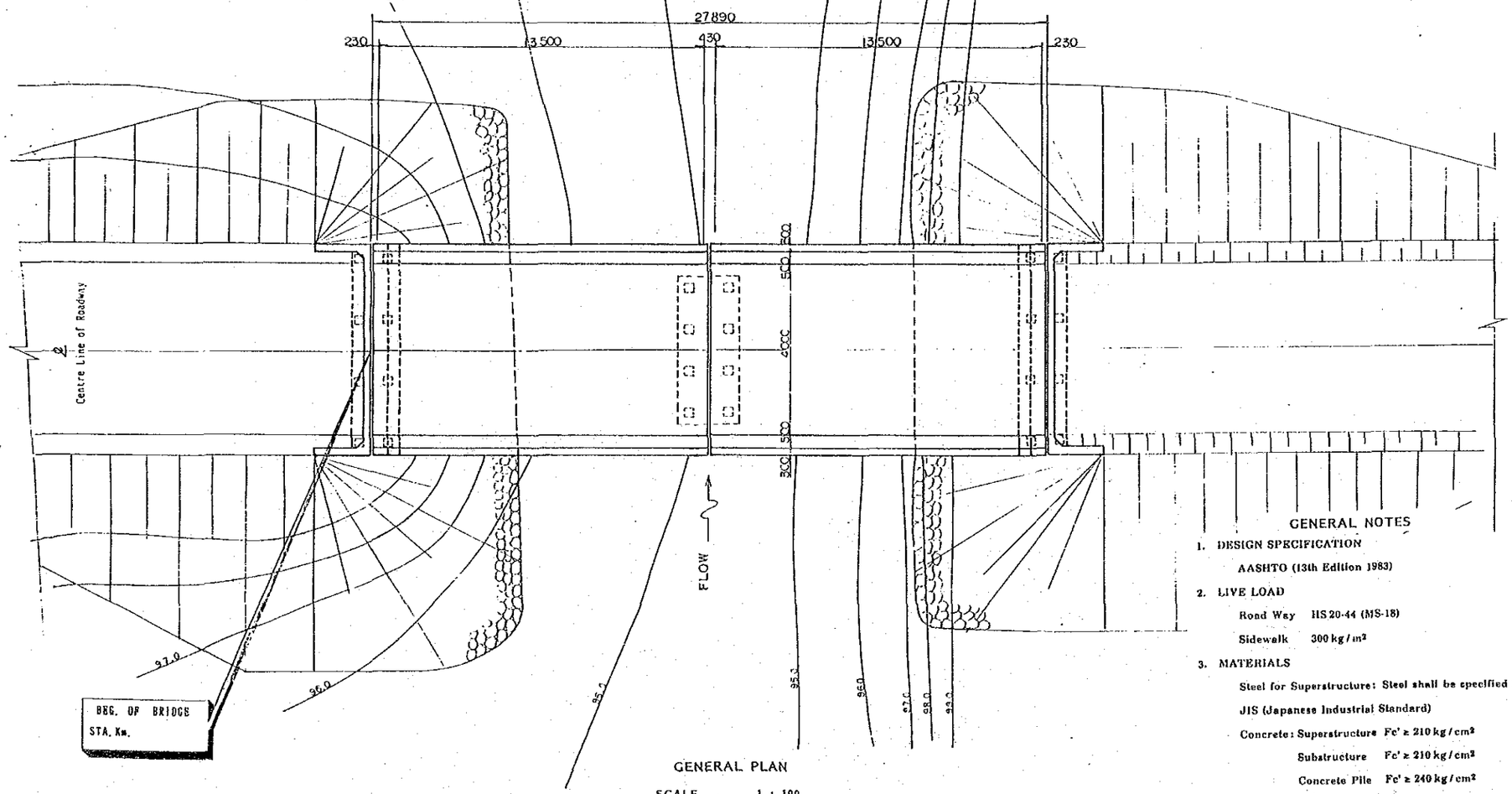


BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

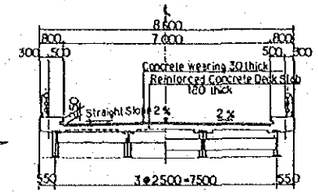
Bridge No.	Huai So Phra	Sheet No.
15.04	Ban Na Ke-Ban Khok Phra Road	



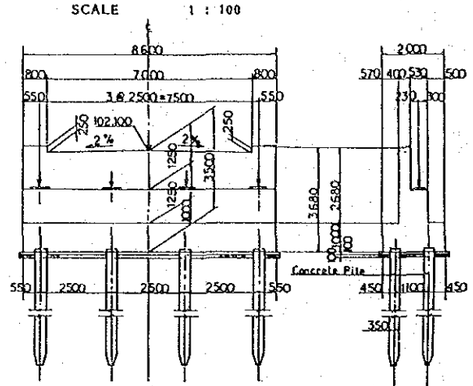
GENERAL ELEVATION
SCALE 1 : 100



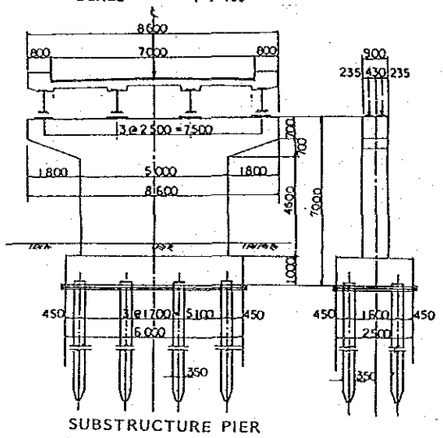
GENERAL PLAN
SCALE 1 : 100



SUPERSTRUCTURE CROSS SECTION
SCALE 1 : 100



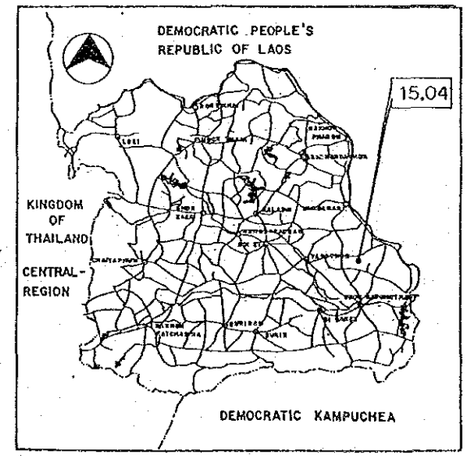
SUBSTRUCTURE ABUTMENT
SCALE 1 : 100



SUBSTRUCTURE PIER
SCALE 1 : 100

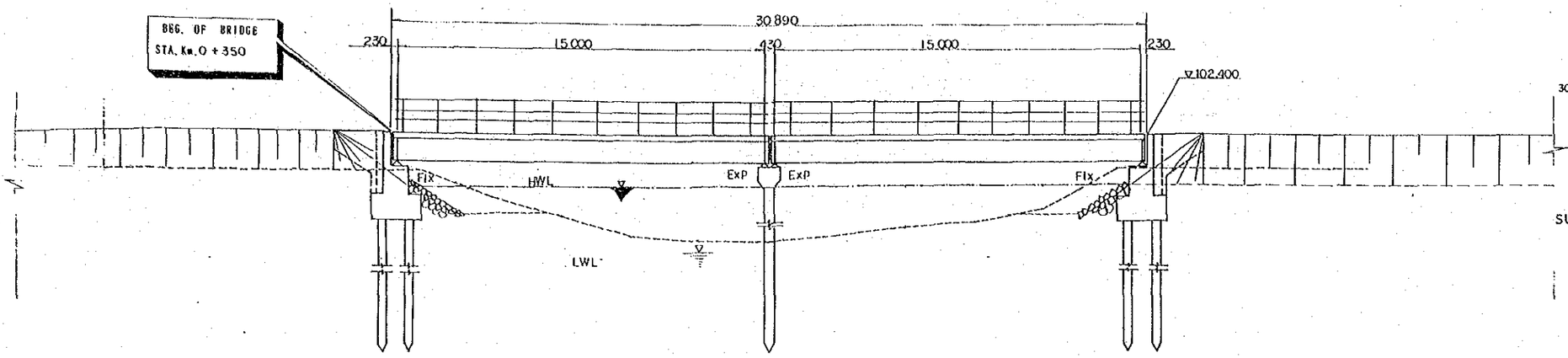
GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg/m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure Fc' ≥ 210 kg/cm²
   Substructure Fc' ≥ 210 kg/cm²
   Concrete Pile Fc' ≥ 240 kg/cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.



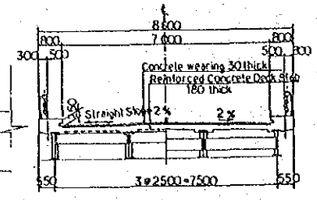
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge No.	Huai Chook Bridge Ban Nong Hin (Rt. No. 2178 - Ban Kae Road) (A. Samrong)	Sheet No.
15.05		



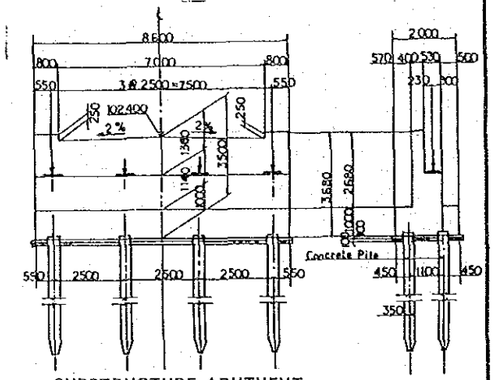
GENERAL ELEVATION

SCALE 1 : 100



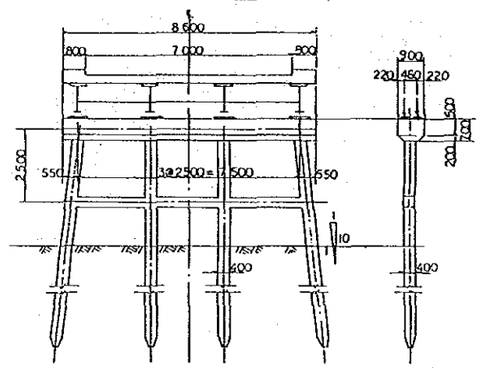
SUPERSTRUCTURE CROSS SECTION

SCALE 1 : 100



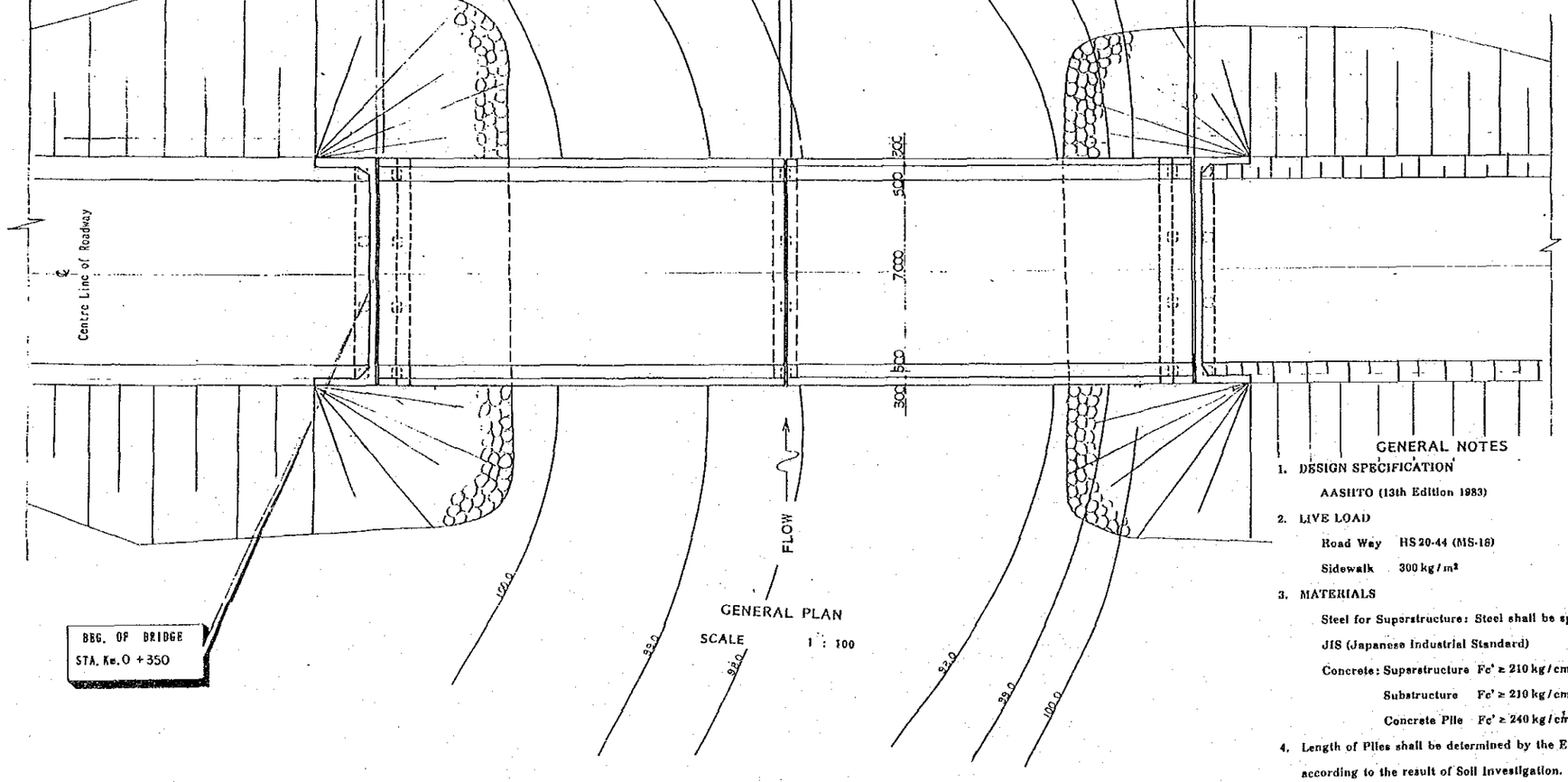
SUBSTRUCTURE ABUTMENT

SCALE 1 : 100



SUBSTRUCTURE PIER

SCALE 1 : 100

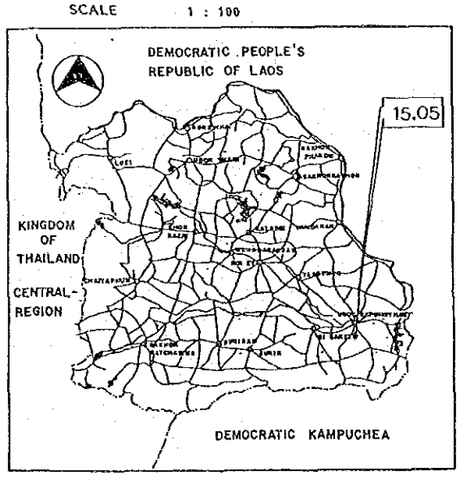


GENERAL PLAN

SCALE 1 : 100

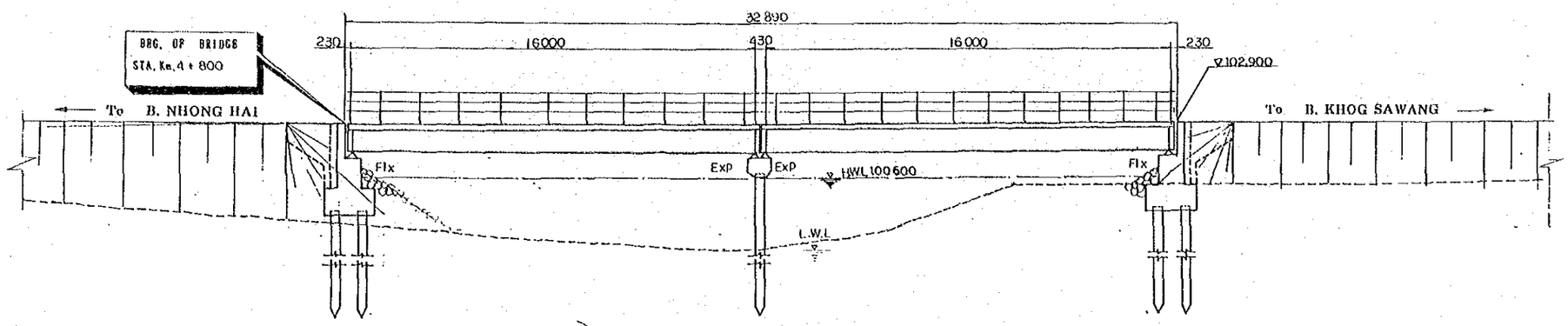
GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg/m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure Fc' ≥ 210 kg/cm²
   Substructure Fc' ≥ 210 kg/cm²
   Concrete Pile Fc' ≥ 240 kg/cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.



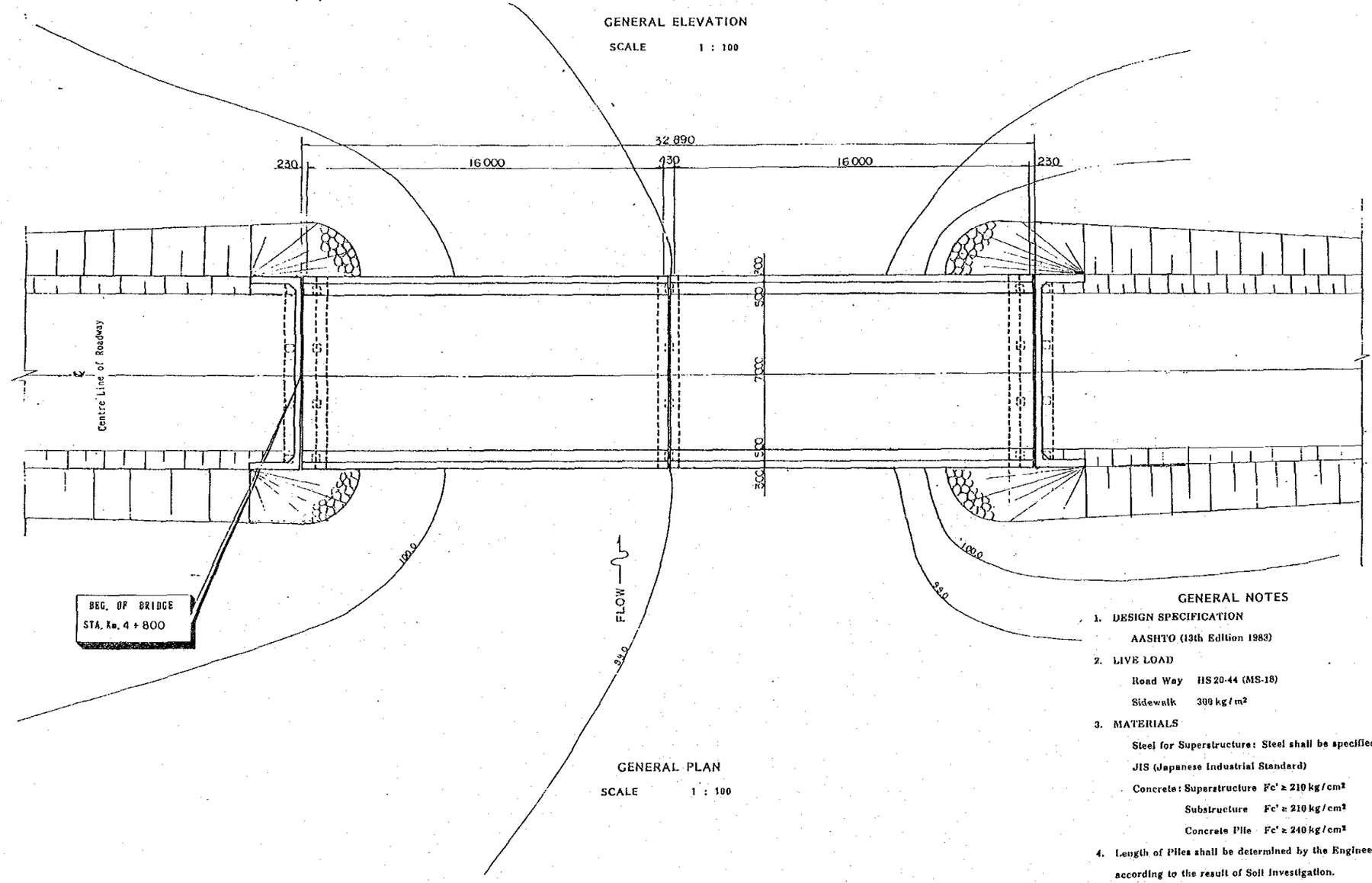
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge No.		Sheet No.
15. 06	Huai Khaen Bridge Ban Non Hai-Ban Na Kae Road (A. Senrong)	



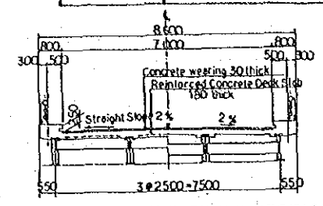
GENERAL ELEVATION

SCALE 1 : 100



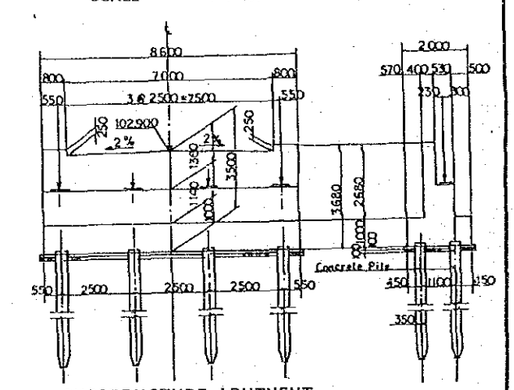
GENERAL PLAN

SCALE 1 : 100



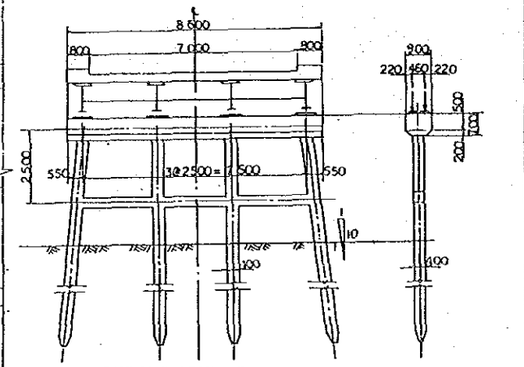
SUPERSTRUCTURE CROSS SECTION

SCALE 1 : 100



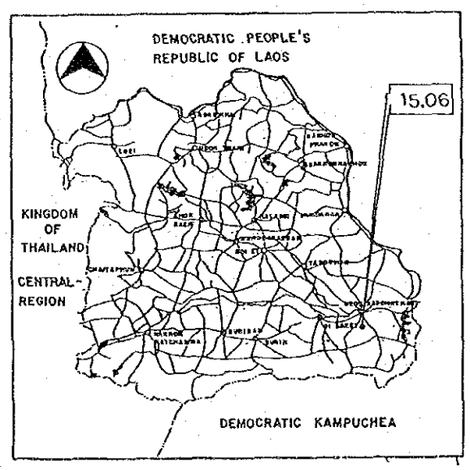
SUBSTRUCTURE ABUTMENT

SCALE 1 : 100



SUBSTRUCTURE PIER

SCALE 1 : 100



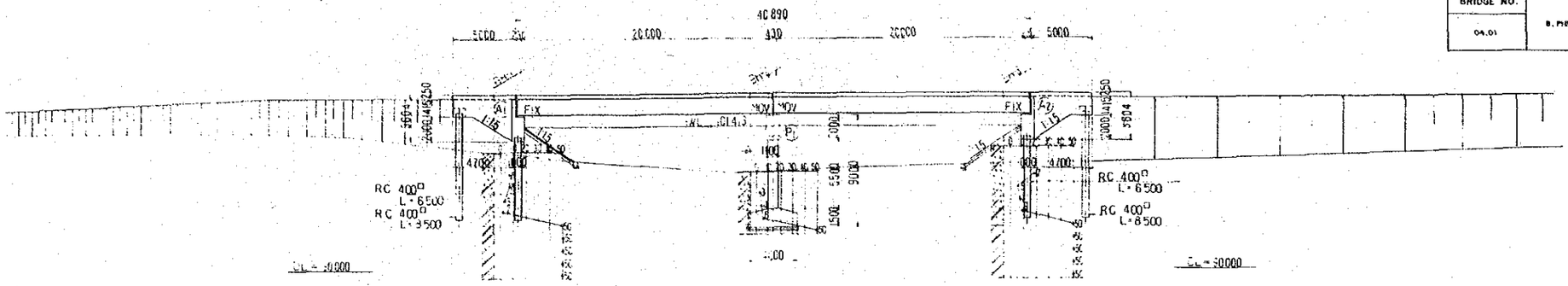
GENERAL NOTES

1. DESIGN SPECIFICATION
   AASHTO (13th Edition 1983)
2. LIVE LOAD
   Road Way HS 20-44 (MS-18)
   Sidewalk 300 kg/m²
3. MATERIALS
   Steel for Superstructure: Steel shall be specified by JIS (Japanese Industrial Standard)
   Concrete: Superstructure Fc' ≥ 210 kg/cm²
   Substructure Fc' ≥ 210 kg/cm²
   Concrete Pile Fc' ≥ 240 kg/cm²
4. Length of Piles shall be determined by the Engineer according to the result of Soil Investigation.
5. All dimensions are in millimeter.

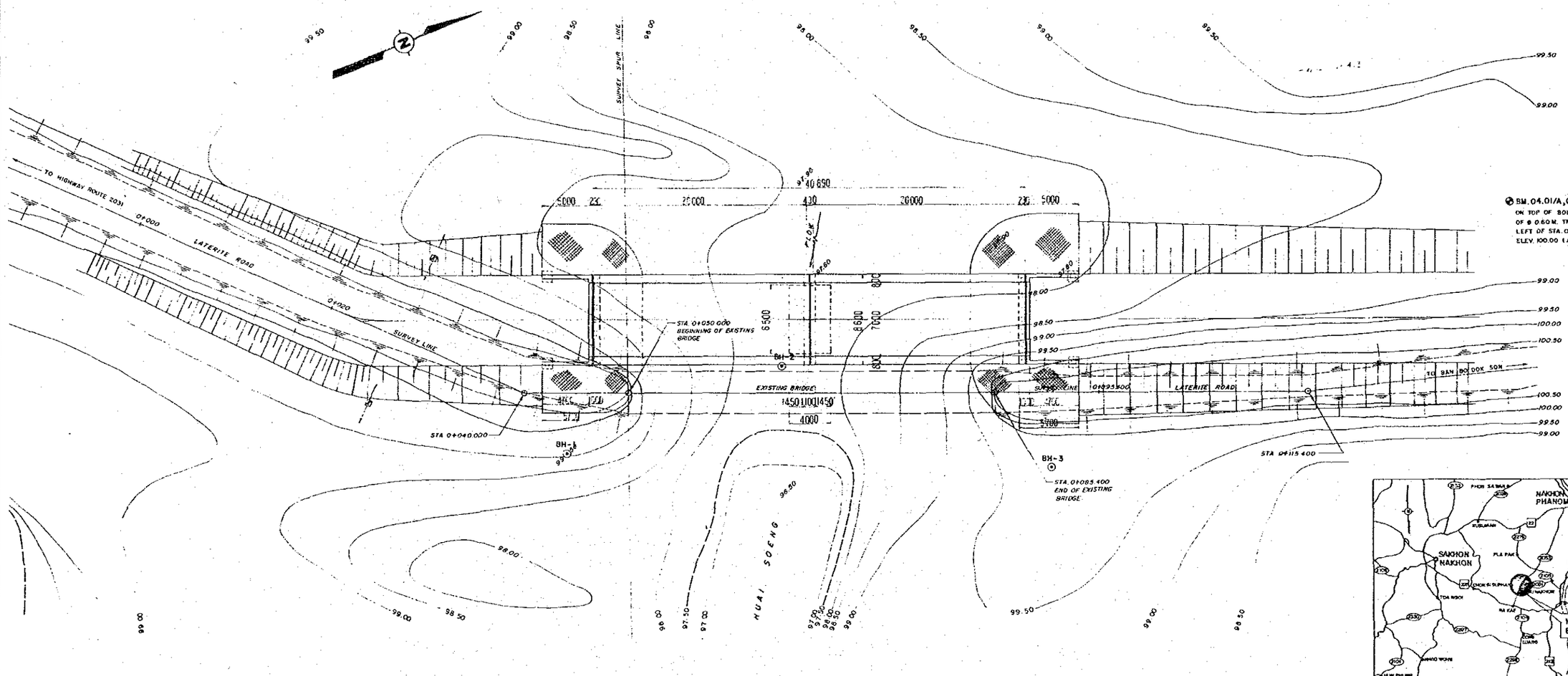
GENERAL VIEW OF BRIDGES FOR GROUP II

THE PROJECT FOR BRIDGE CONSTRUCTION
IN RURAL REGION IN NORTHEAST THAILAND

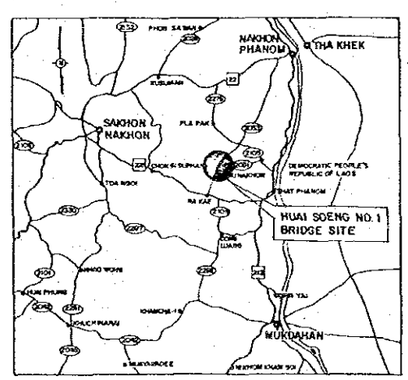
BRIDGE NO.		SHEET NO.
04.01	HUAI SOENG NO.1 B. PHRA CHONG A. MA KAE C. NAKHON PHANOM	OF



P R O F I L E
SCALE HORIZONTAL 1: 200, VERTICAL 1: 200



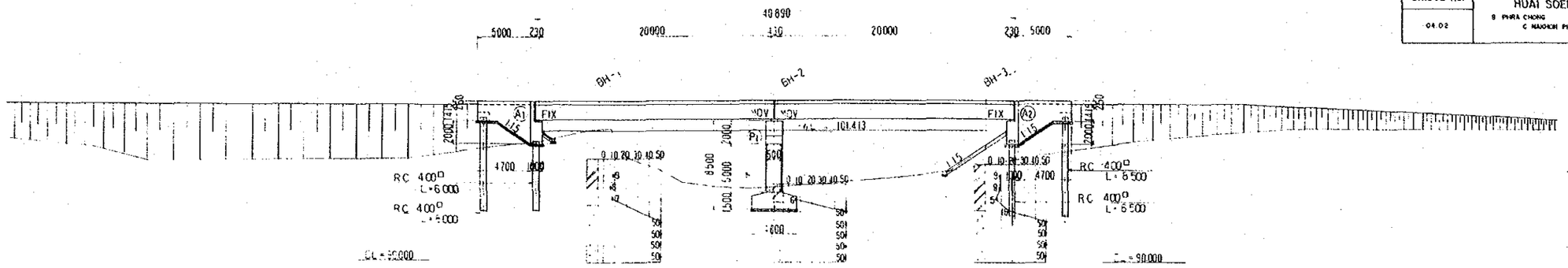
P L A N
SCALE 1 200



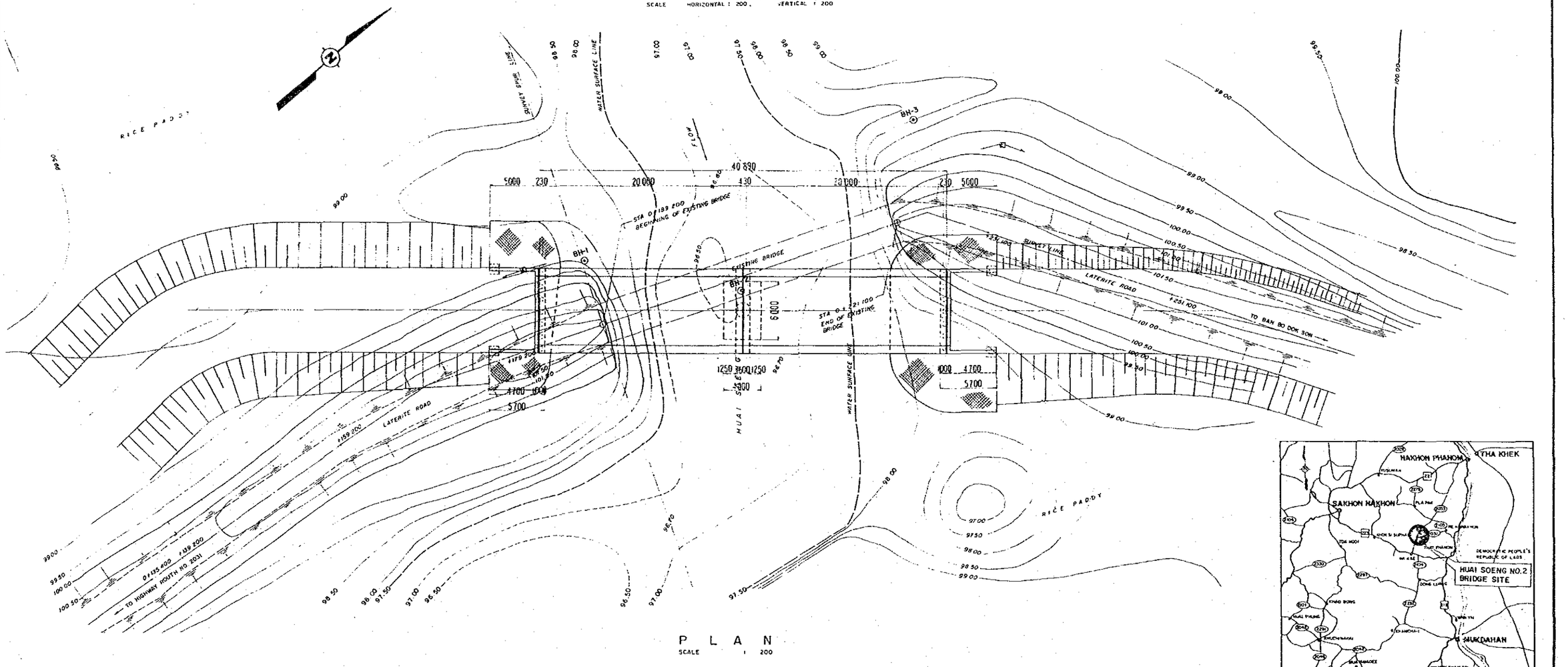
VICINITY MAP

THE PROJECT FOR BRIDGE CONSTRUCTION
IN RURAL REGION IN NORTHEAST THAILAND

BRIDGE NO.		SHEET NO.
04.02	HUAI SOENG NO.2 B PHRA CHONG A NA KAE C NAKHON PHANOM	07



P R O F I L E
SCALE HORIZONTAL 1 : 200 VERTICAL 1 200

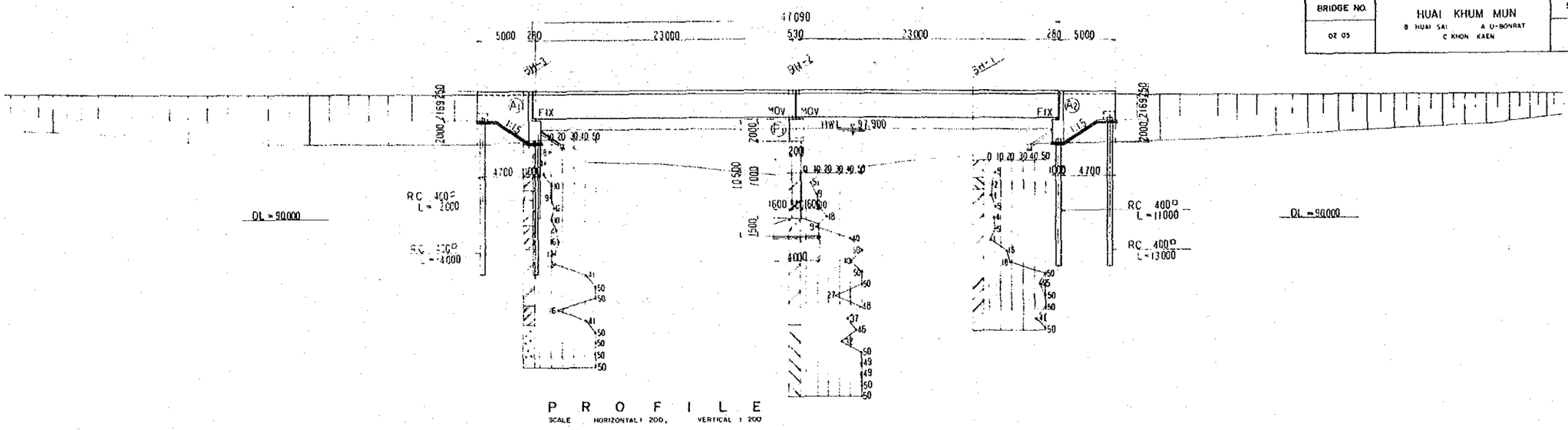


P L A N
SCALE 1 200

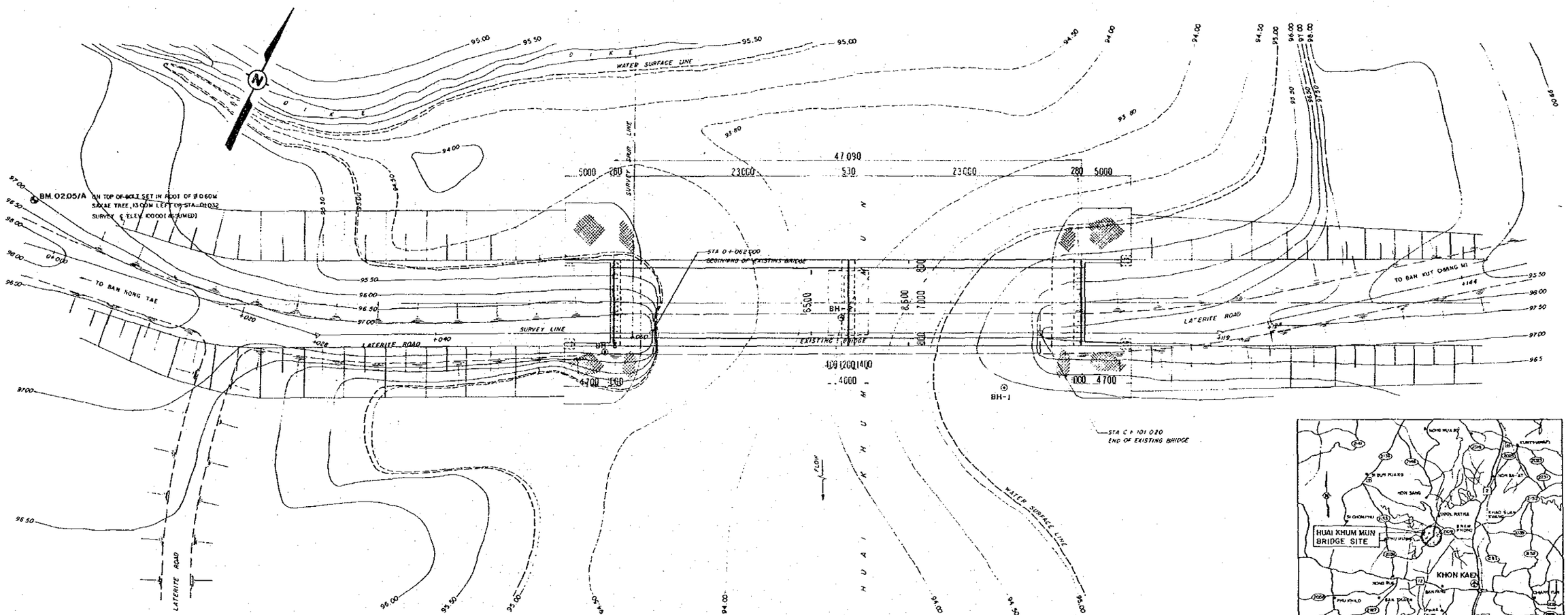
VICINITY MAP

THE PROJECT FOR BRIDGE CONSTRUCTION
IN RURAL REGION IN NORTHEAST THAILAND

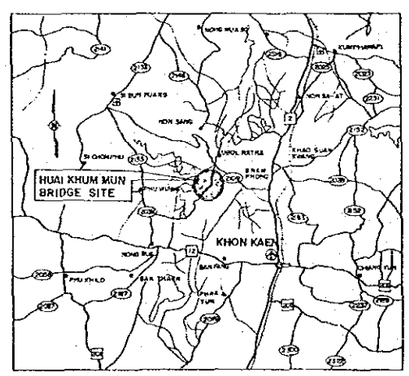
BRIDGE NO.		SHEET NO.
02 05	HUAI KHUM MUN B HUAI SAI A U-BONRAT C KHON KAEN	OF



PROFILE
SCALE HORIZONTAL 1 200, VERTICAL 1 200

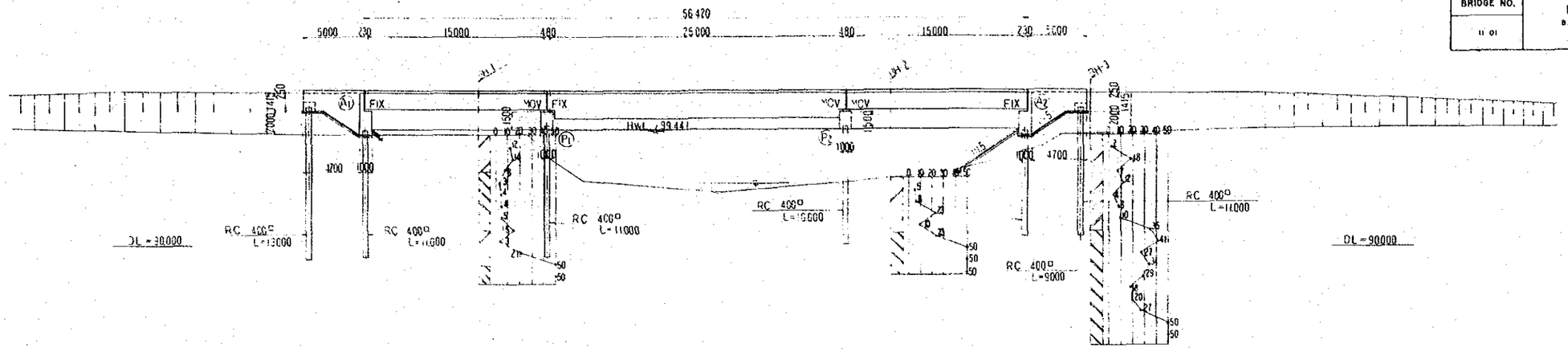


PLAN
SCALE 1 200



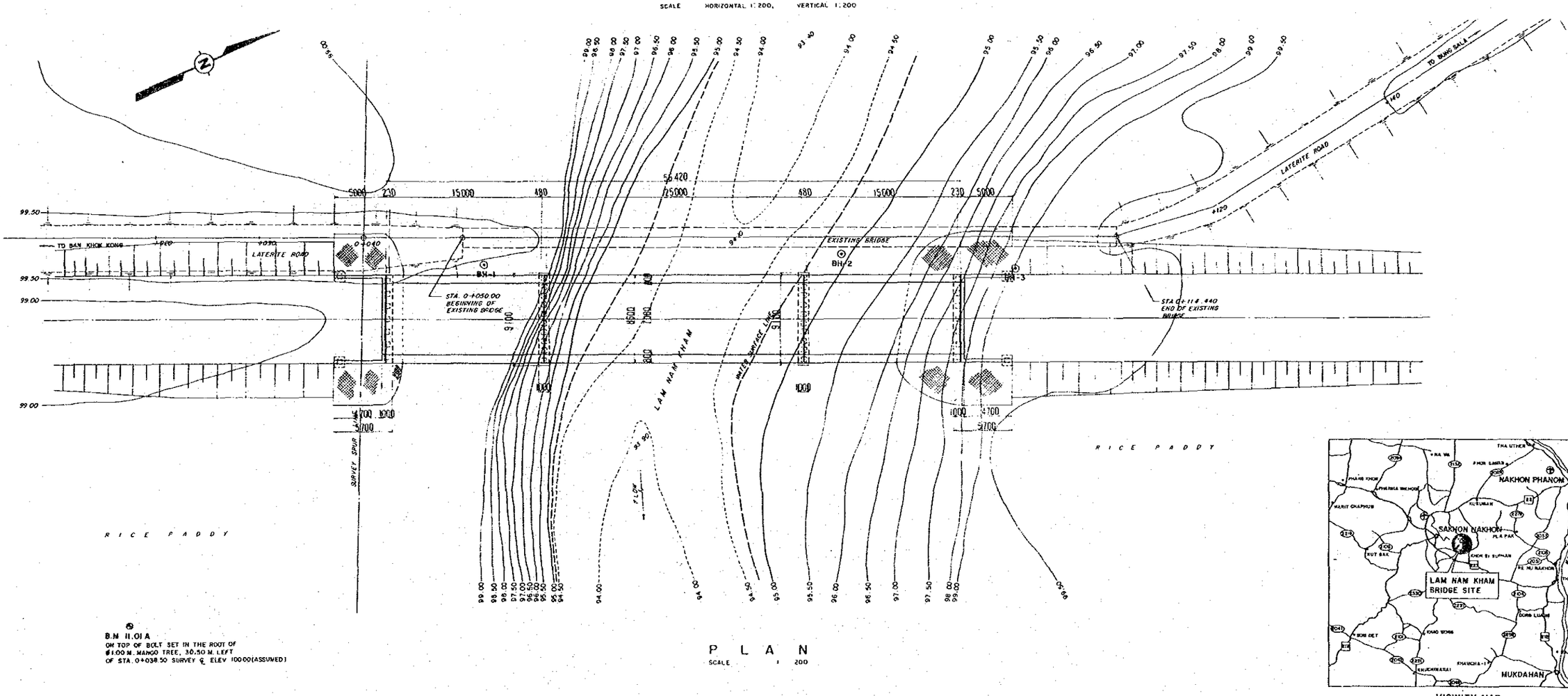
VICINITY MAP

THE PROJECT FOR BRIDGE CONSTRUCTION IN RURAL REGION IN NORTHEAST THAILAND		
BRIDGE NO.	LAM NAM KHAM B. KHOK KONG A. MUANG C. SAKHON NAKHON	SHEET NO.
II 01		OF



P R O F I L E

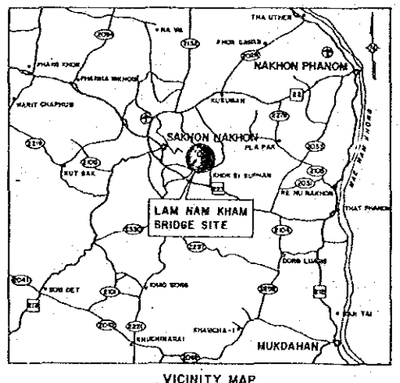
SCALE HORIZONTAL 1:200, VERTICAL 1:200



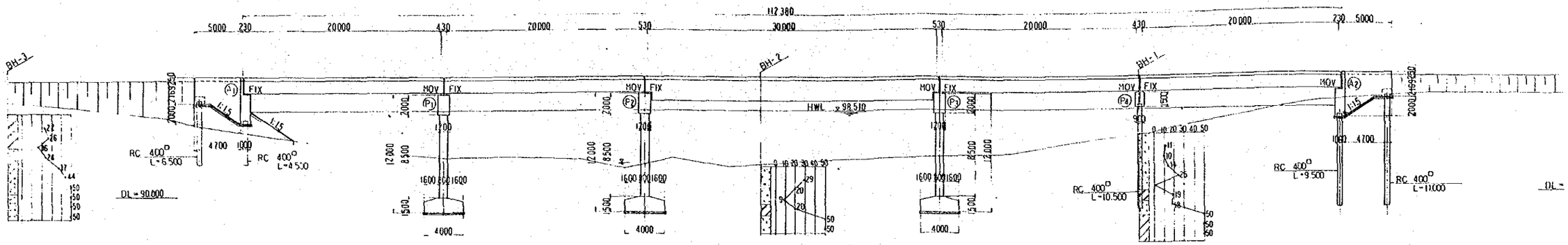
P L A N

SCALE 1 : 200

B.M II.01 A
ON TOP OF BOLT SET IN THE ROOT OF Ø1.00 M. MANGO TREE, 30.50 M. LEFT OF STA. 0+038.50 SURVEY ℄ ELEV 100.00 (ASSUMED)

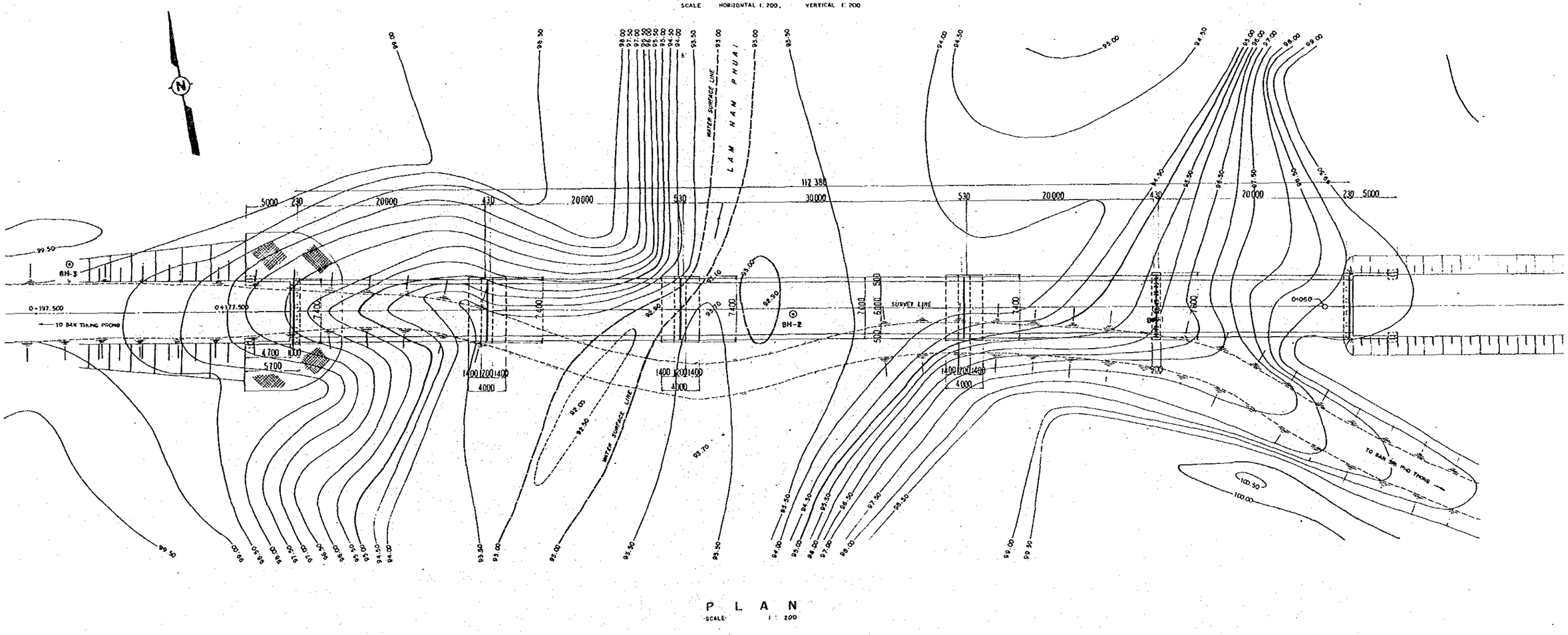


VICINITY MAP



P R O F I L E

SCALE HORIZONTAL 1:200, VERTICAL 1:200

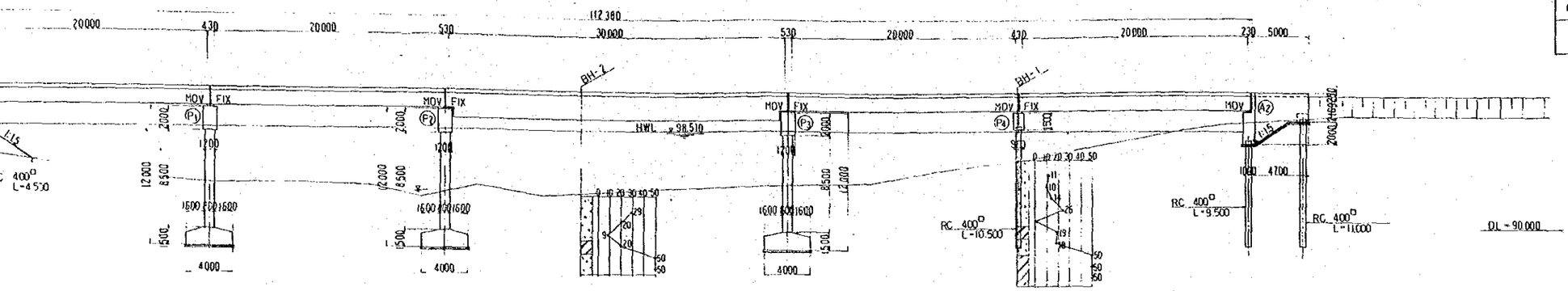


P L A N

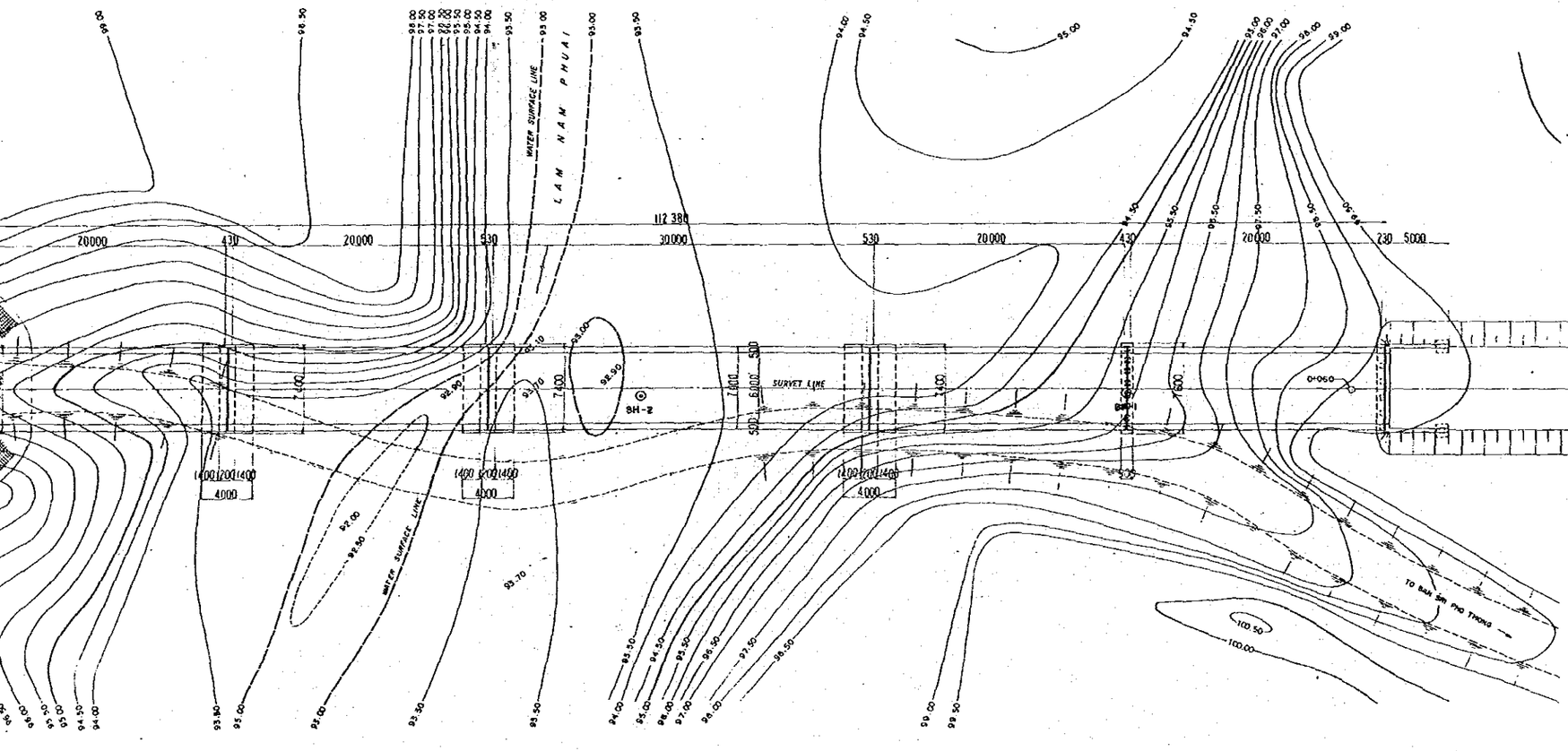
SCALE 1 : 200

THE PROJECT FOR BRIDGE CONSTRUCTION
IN RURAL REGION IN NORTHEAST THAILAND

BRIDGE NO.	LAM NAM PHUAI B. THUNG PHO A. SI SUN RUANG C. UDON THANI	SHEET NO.
14.02		OF



P R O F I L E
SCALE HORIZONTAL 1: 200, VERTICAL 1: 200



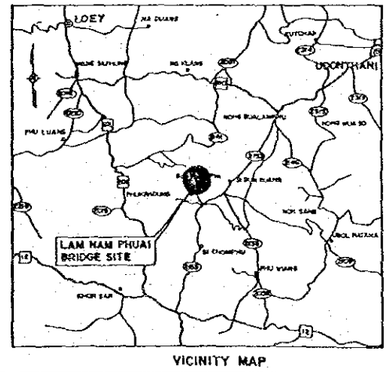
P L A N
SCALE 1 : 200

BM. 14.02/A

ON TOP OF BOLT SET IN ROOT OF Ø 0.40 LAED TREE 37.00M. RIGHT OF STA. 0+012 SURVEY ℄ ELEV. 100.00 (ASSUMED)

BM. 14.02/B

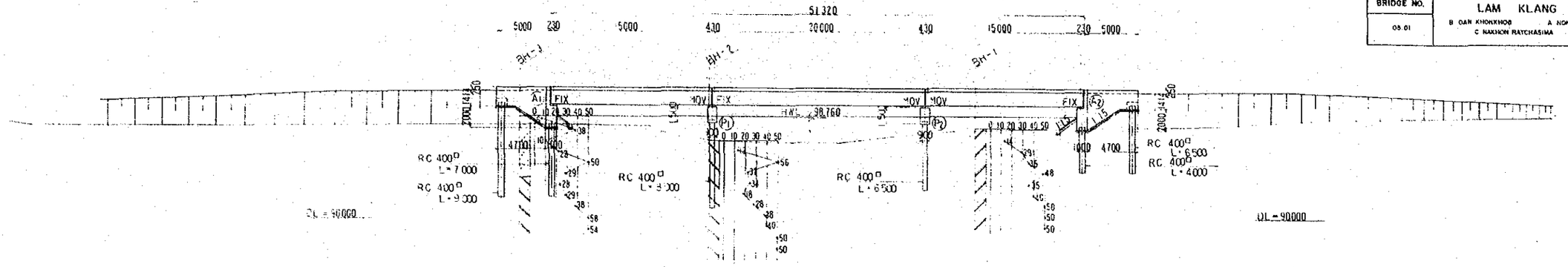
ON TOP OF BOLT SET IN ROOT OF Ø 0.40 KHOON TREE 6.00 M. RIGHT OF STA. 0+210 SURVEY ℄ ELEV. 99.979.



VICINITY MAP

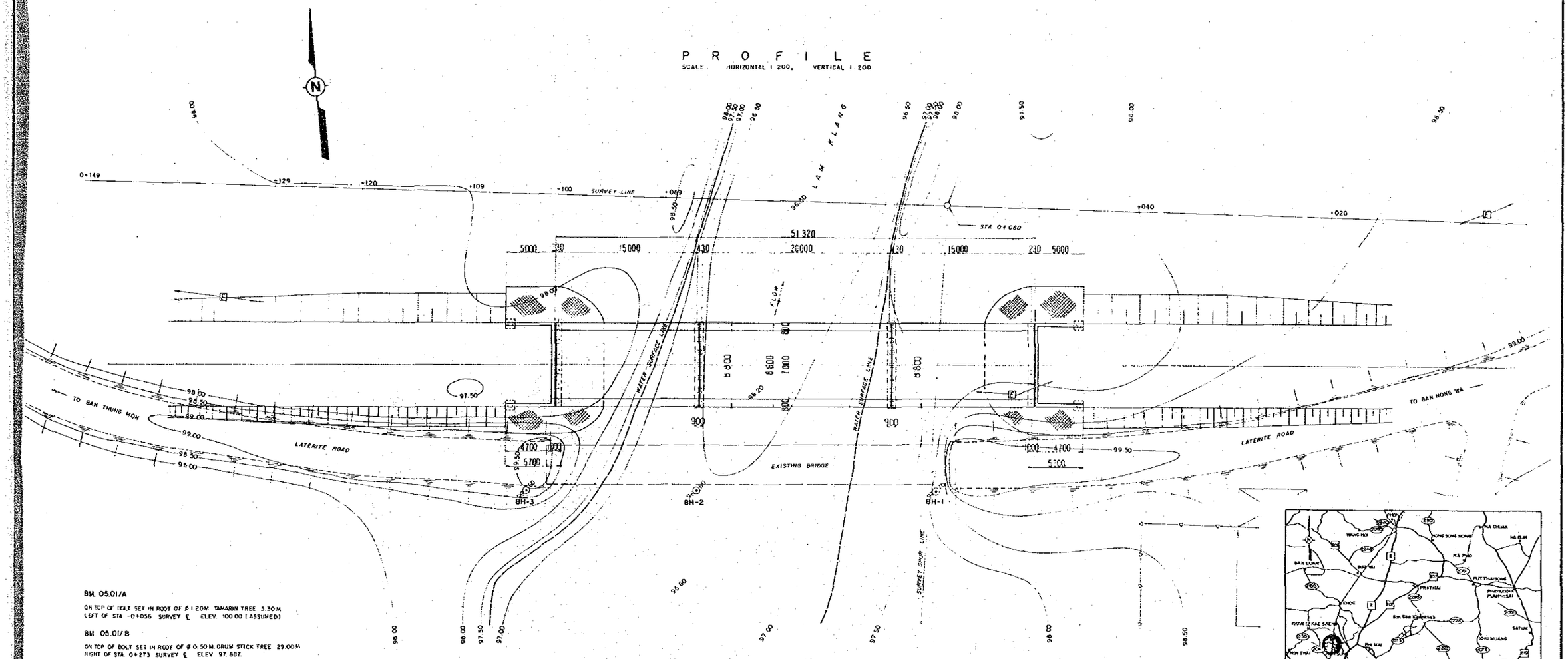
THE PROJECT FOR BRIDGE CONSTRUCTION
IN RURAL REGION IN NORTHEAST THAILAND

BRIDGE NO.		SHEET NO.
05.01	LAM KLANG B. DAN KHONKHOB A. NONSUNG C. NAKHON RATCHASIMA	OF



P R O F I L E

SCALE HORIZONTAL 1 200, VERTICAL 1 200



BM. 05.01/A

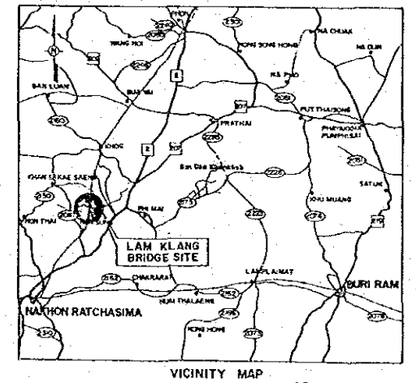
ON TOP OF BOLT SET IN ROOT OF Ø 1.20M. TAMARIN TREE 5.30M. LEFT OF STA. -0+056 SURVEY ℄ ELEV. 100.00 (ASSUMED)

BM. 05.01/B

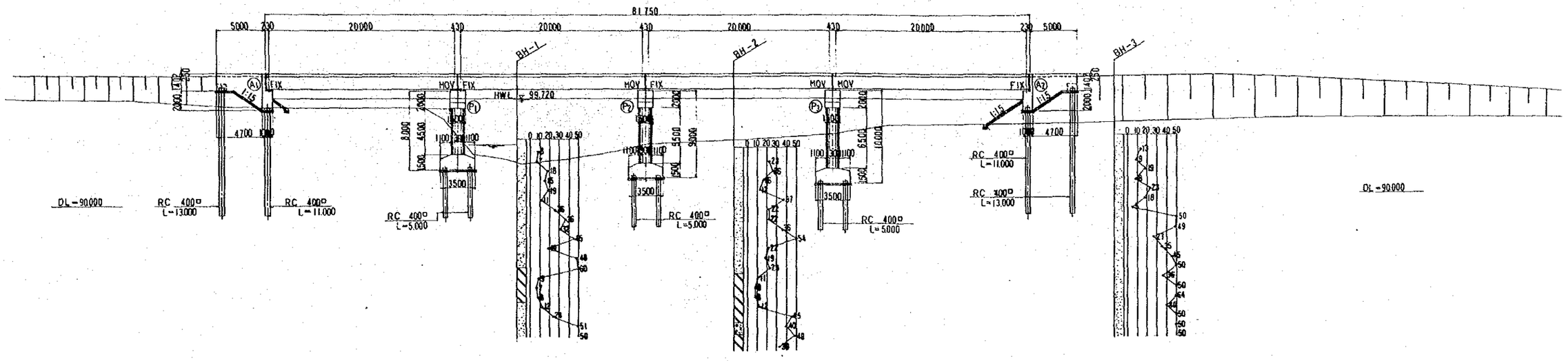
ON TOP OF BOLT SET IN ROOT OF Ø 0.50M. DRUM STICK TREE 29.00M. RIGHT OF STA. 0+273 SURVEY ℄ ELEV. 97.887.

P L A N

SCALE 1 : 200

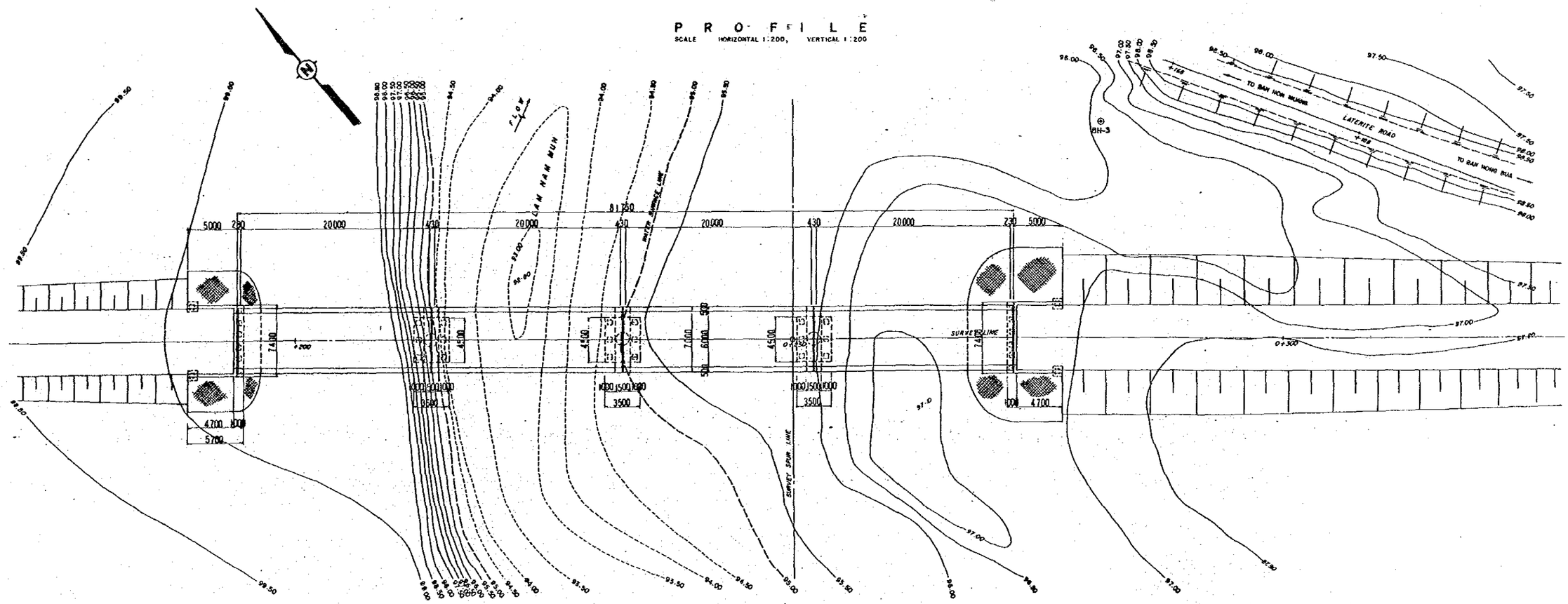


VICINITY MAP



P R O F I L E

SCALE HORIZONTAL 1:200, VERTICAL 1:200

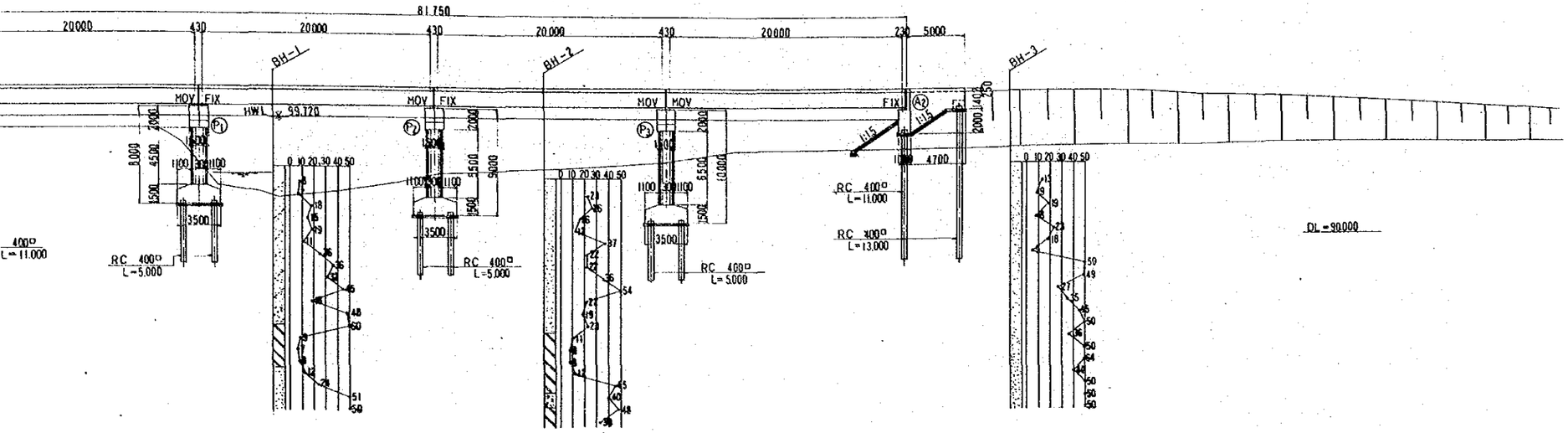


P L A N

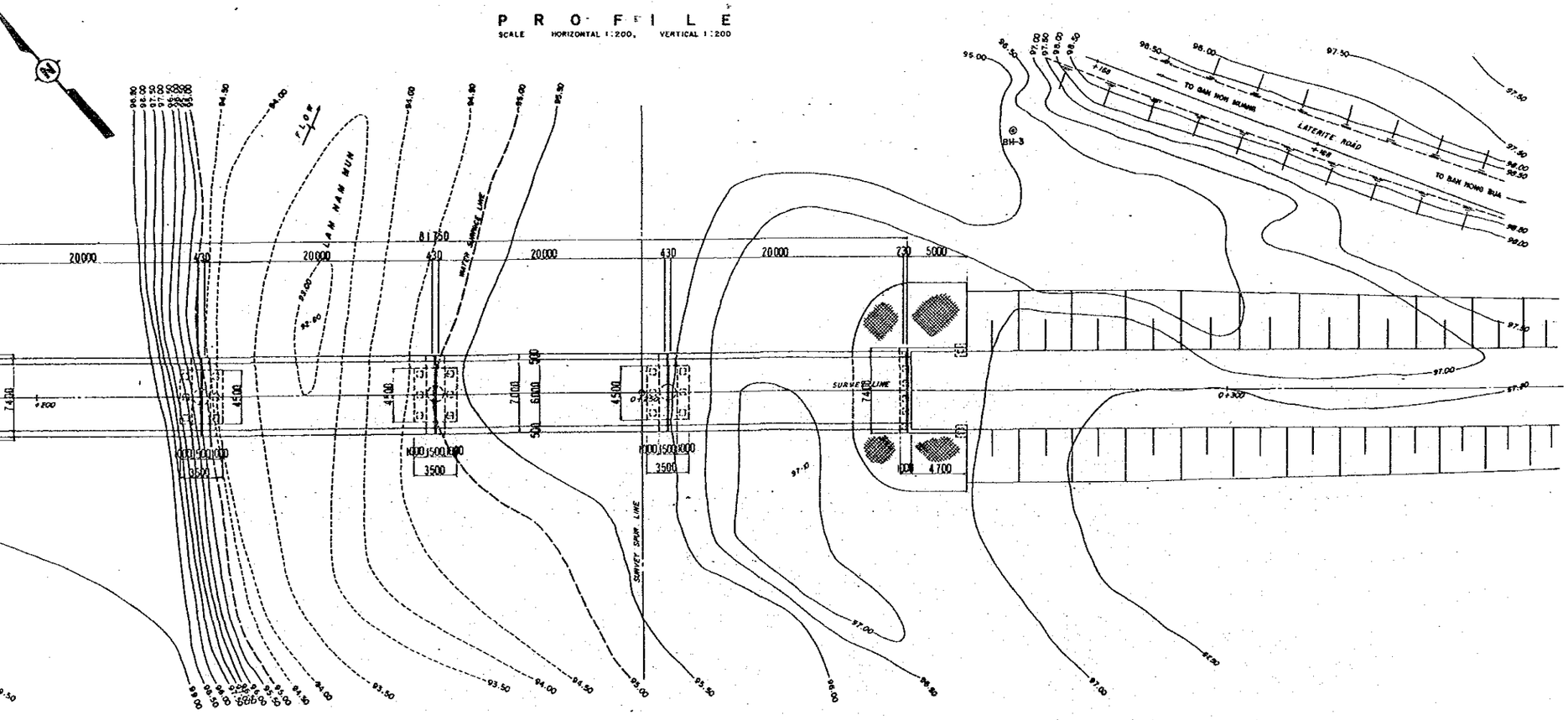
SCALE 1 : 200

THE PROJECT FOR BRIDGE CONSTRUCTION
IN RURAL REGION IN NORTHEAST THAILAND

BRIDGE NO.		SHEET NO.
05.02	LAM NAM MUN B. KHAM KLANG A. PHI MAI C. NAKHON RATCHASIMA	OF



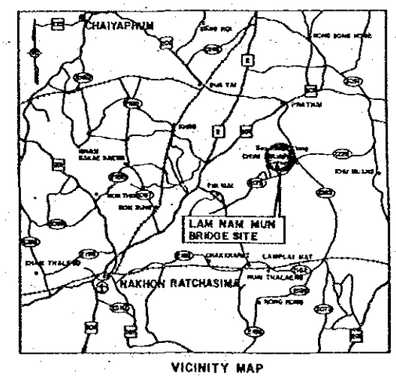
P R O F I L E
SCALE HORIZONTAL 1:200, VERTICAL 1:200



P L A N
SCALE 1 : 200

BM. 05.02/A
ON TOP OF BOLT SET IN ROOT OF Ø 0.40 KAPOK TREE, 9.00 M. RIGHT OF STA. 0+263 SURVEY ℄ ELEV. 100.00 (ASSUMED)

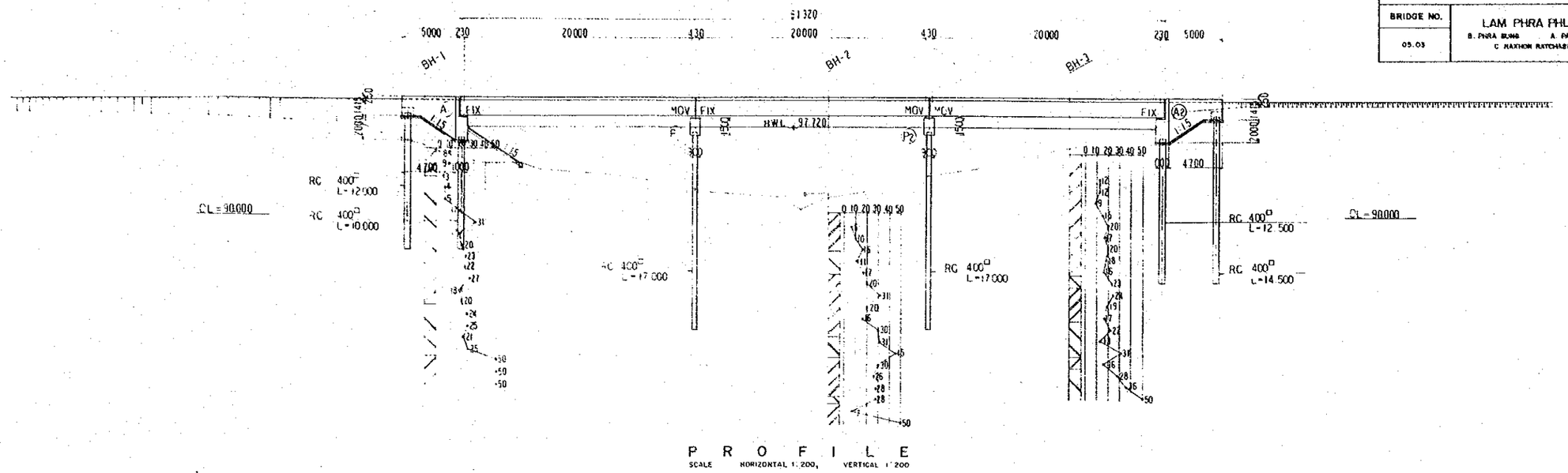
BM. 05.02/B
ON TOP OF BOLT SET IN ROOT OF Ø 0.60 THONG KWO TREE, 27.00 M. LEFT OF STA. 0+000 SURVEY ℄ ELEV. 98.267.



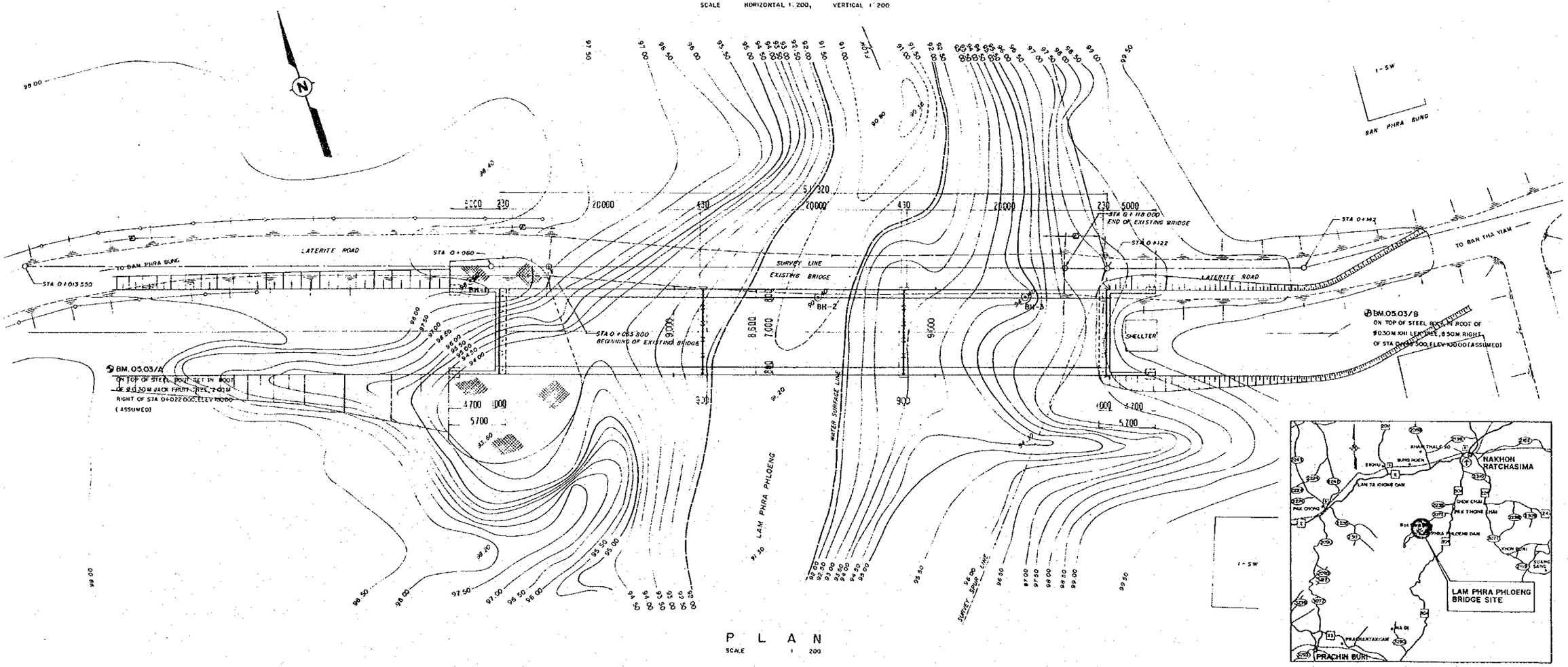
VICINITY MAP

THE PROJECT FOR BRIDGE CONSTRUCTION
IN RURAL REGION IN NORTHEAST THAILAND

BRIDGE NO.		SHEET NO.
05.03	LAM PHRA PHLOENG B. PHRA BUNG A. PAKTHONGCHAI C. NAKHON RATCHASIMA	05



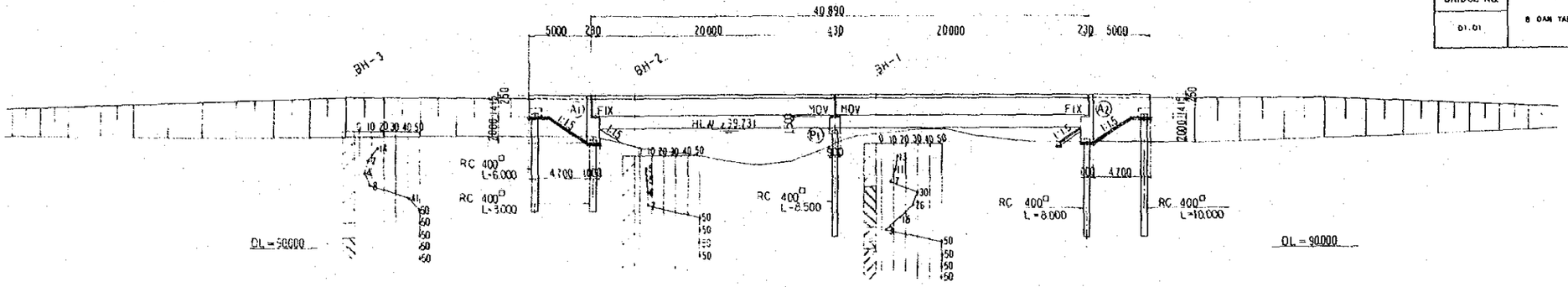
PROFILE
SCALE HORIZONTAL 1:200, VERTICAL 1:200



PLAN
SCALE 1:200

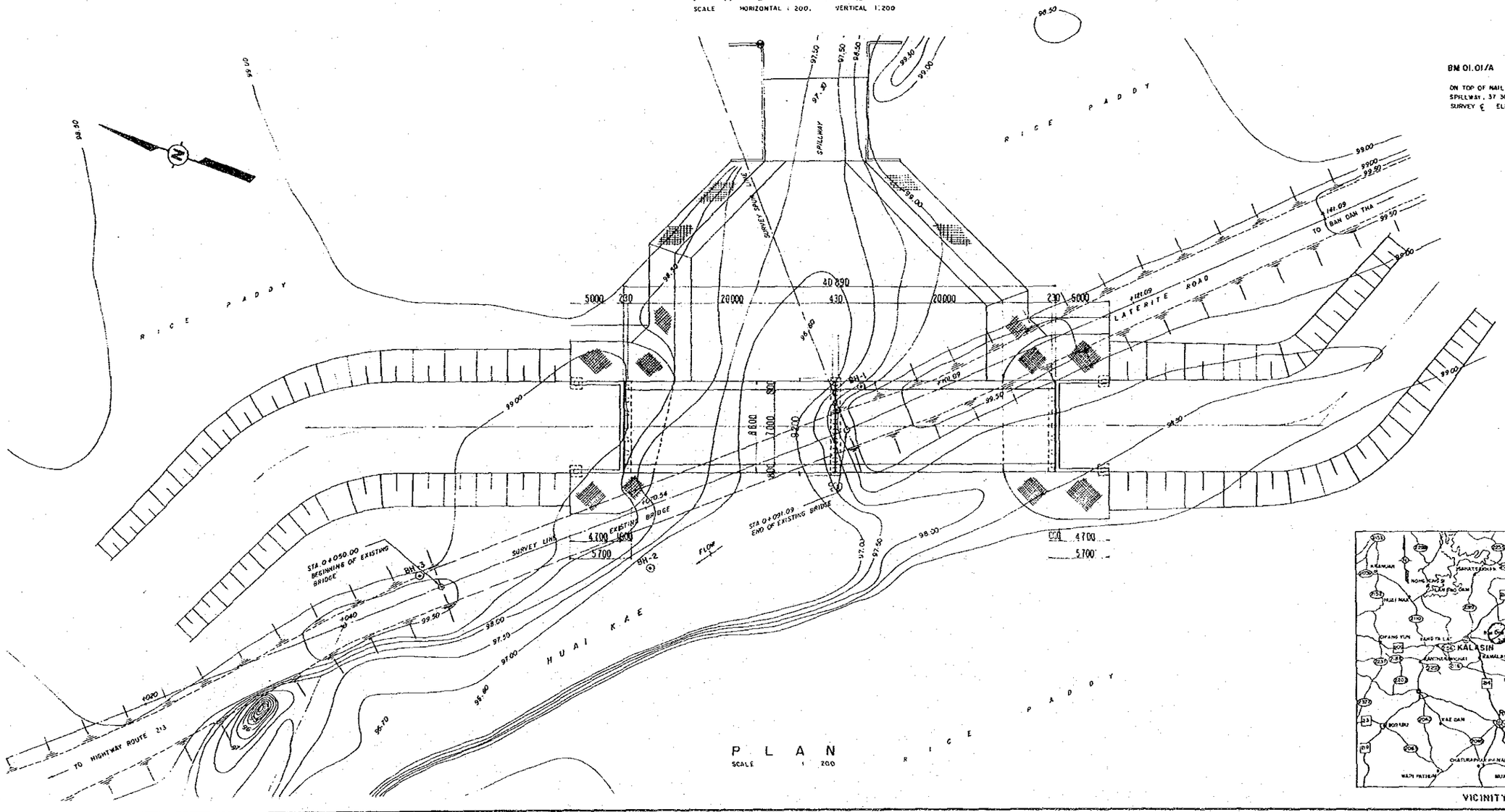
VICINITY MAP

THE PROJECT FOR BRIDGE CONSTRUCTION IN RURAL REGION IN NORTHEAST THAILAND		
BRIDGE NO.	HUAI KAE B. DAN TAE A. MUANG C. KALASIN	SHEET NO.
01.01		OF



P R O F I L E

SCALE HORIZONTAL : 200, VERTICAL 1:200

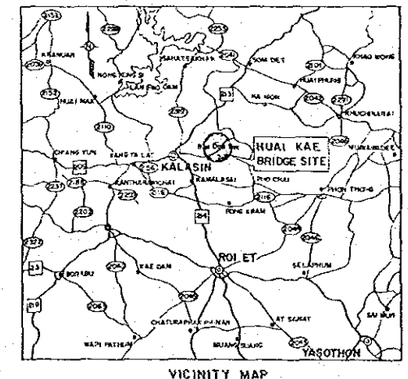


P L A N

SCALE 1 200

BM 01.01/A

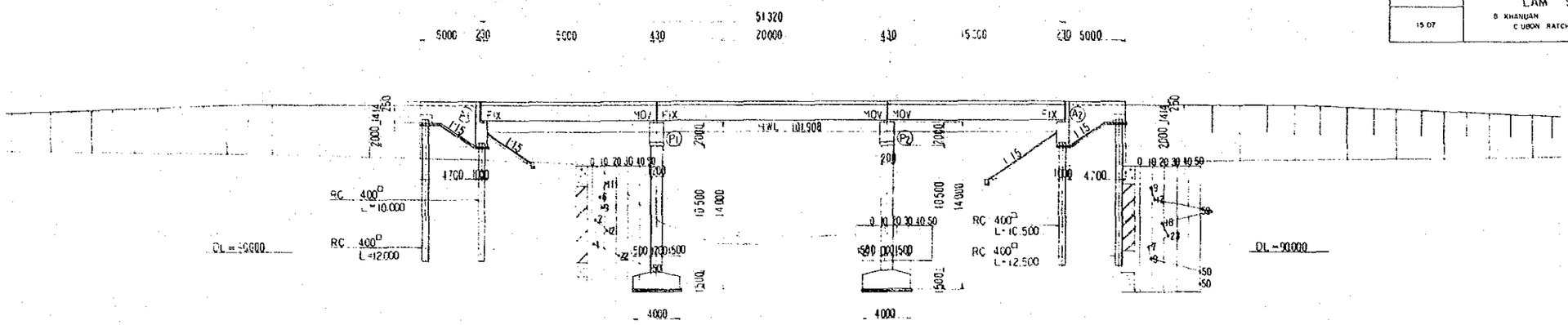
ON TOP OF NAIL SET IN CORNER OF CONCRETE SPILLWAY, 37.30 M LEFT OF STA. 0+090.00 SURVEY ℄ ELEV. 100.00 (ASSUMED)



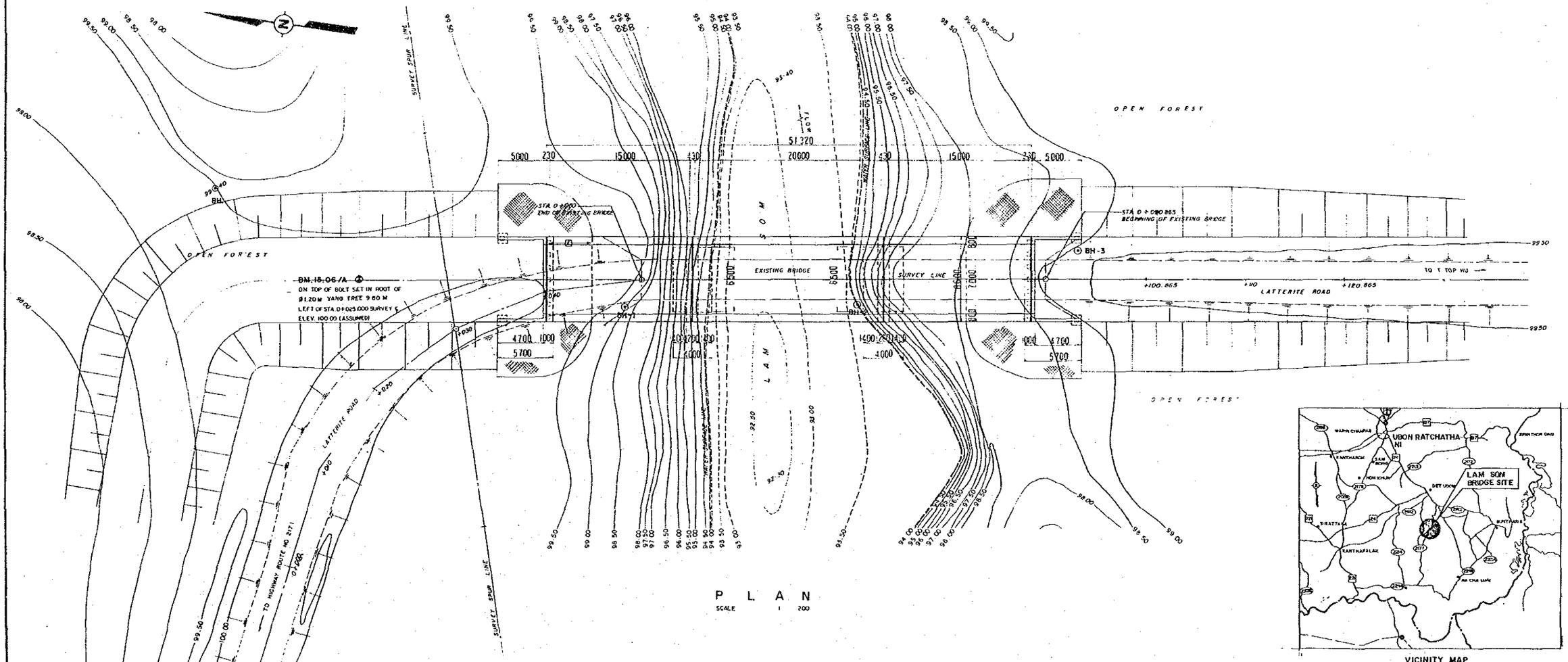
VICINITY MAP

THE PROJECT FOR BRIDGE CONSTRUCTION
IN RURAL REGION IN NORTHEAST THAILAND

BRIDGE NO.		SHEET NO.
15 07	LAM SOM B KHANUAN A DET UDOM C UBON RATCHATHANI	OF



P R O F I L E
SCALE HORIZONTAL 1 : 200, VERTICAL 1 : 200



P L A N
SCALE 1 : 200

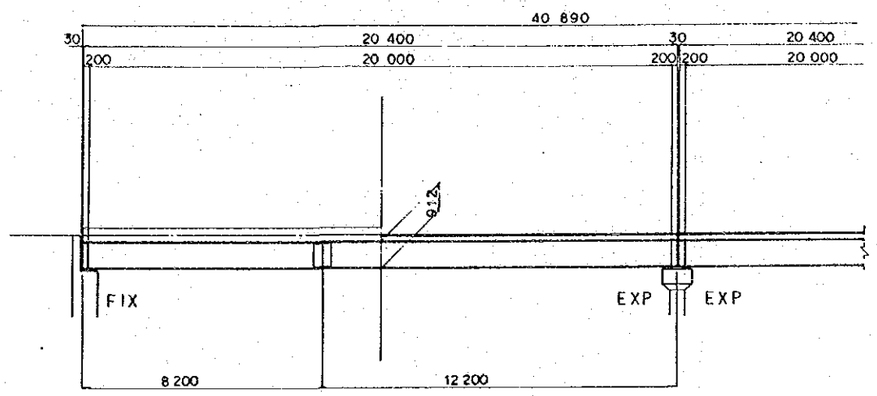
VICINITY MAP

STRUCTURE VIEW OF SUPERSTRUCTURE FOR GROUP Ⅰ, GROUP Ⅱ

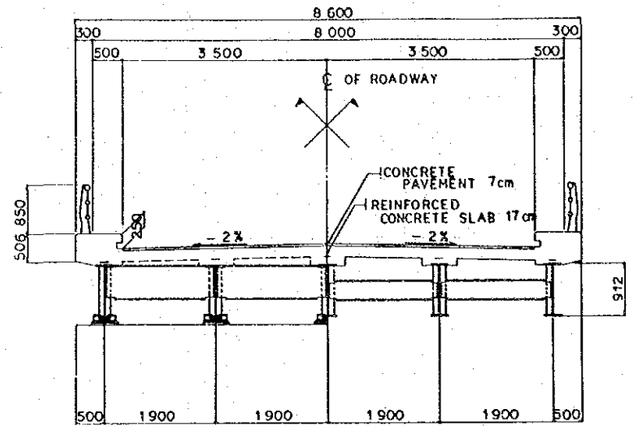
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge No.		Sheet No.

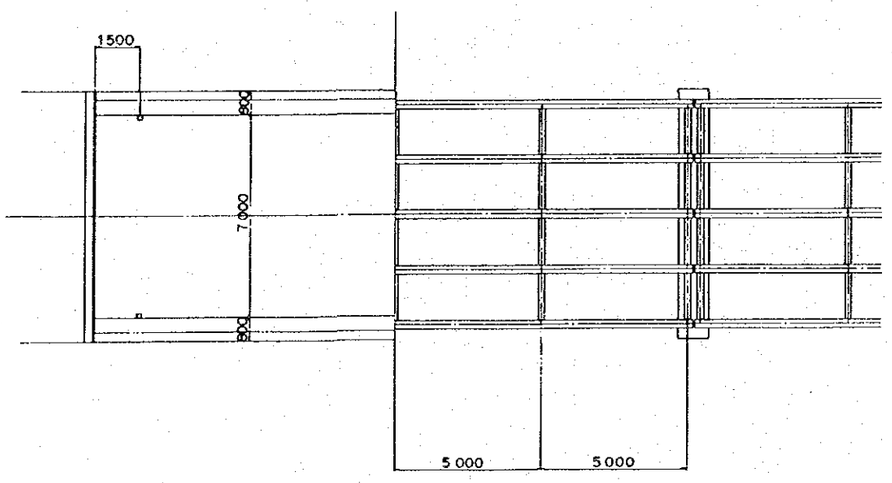
01.01 Huai Kae Bridge
04.01 Huai Soeng No.1 Bridge
04.02 Huai Soeng No.2 Bridge
05.03 Lam Phra Phloeng Bridge



GENERAL ELEVATION
SCALE 1:100



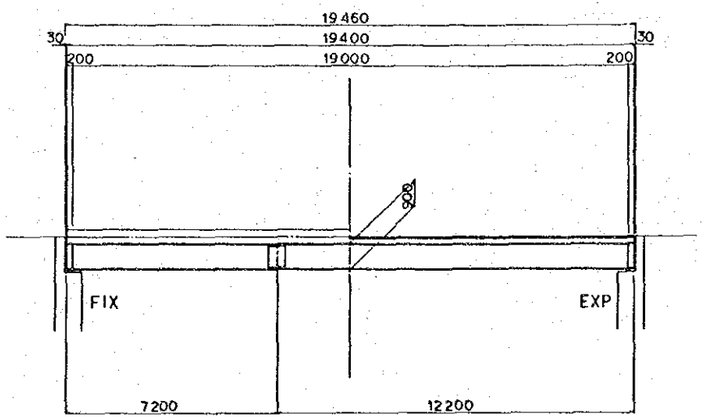
SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



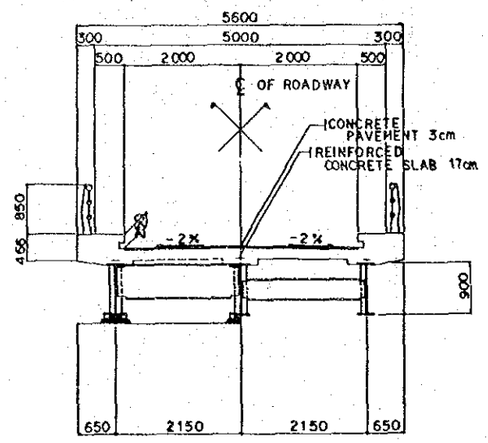
GENERAL PLAN
SCALE 1:100

BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

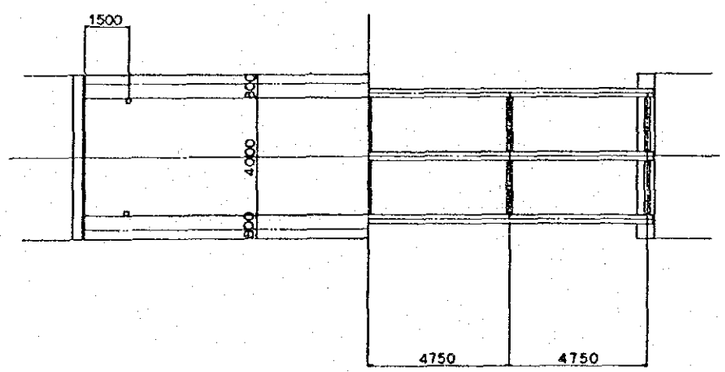
Bridge No.	Lam Ta Khong No. 1 Bridge	Sheet No.
05.04		



GENERAL ELEVATION
SCALE 1:100



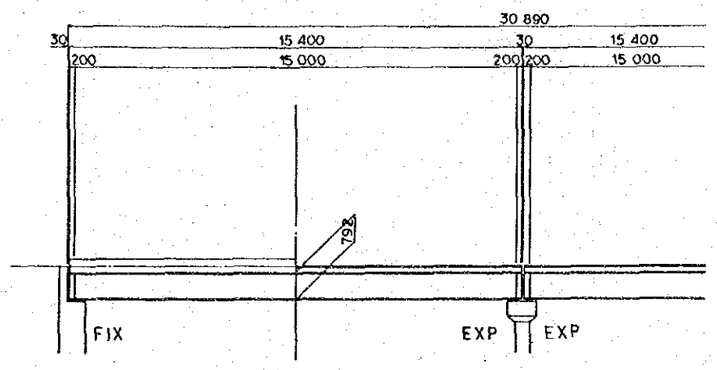
SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



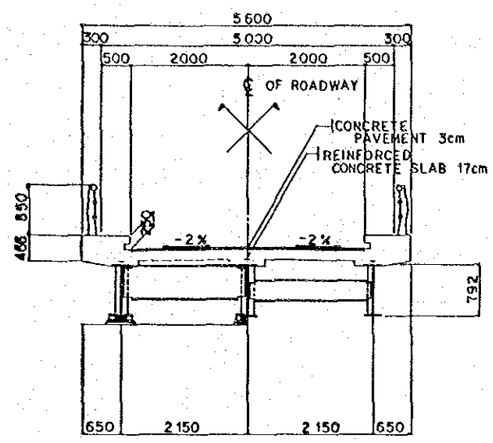
GENERAL PLAN
SCALE 1:100

BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

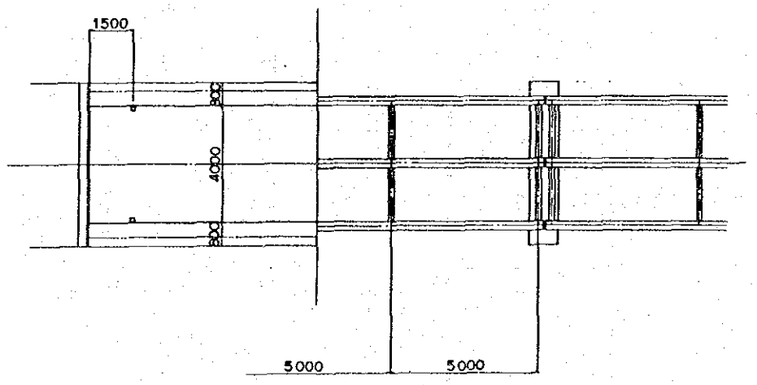
Bridge No.	Lam Ta Khong No. 2 Bridge	Sheet No.
05.05		



GENERAL ELEVATION
SCALE 1:100



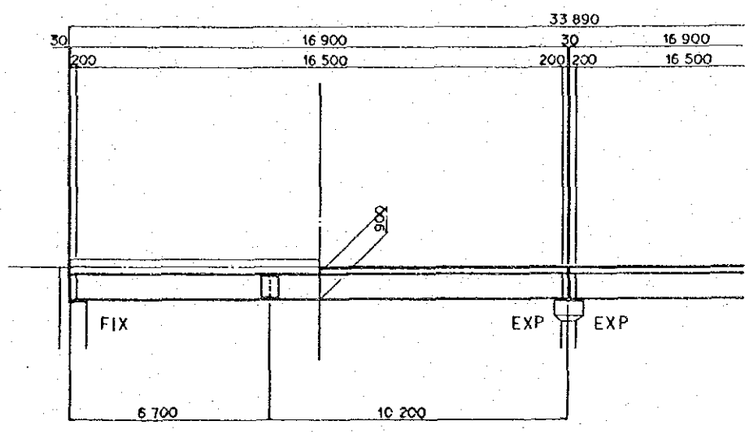
SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



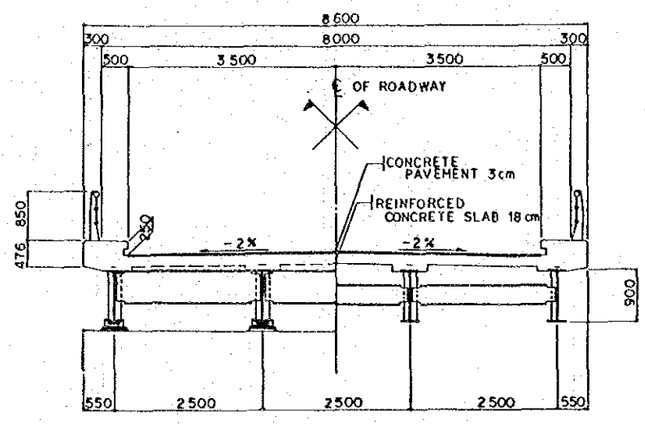
GENERAL PLAN
SCALE 1:100

BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

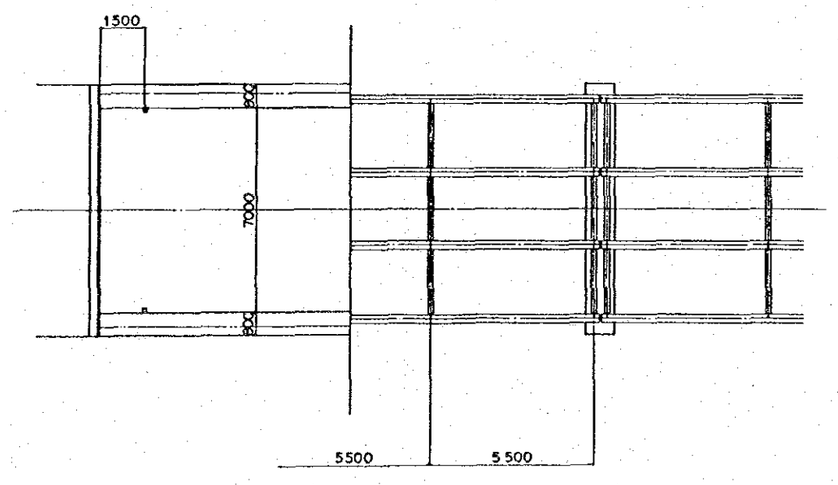
Bridge No.	Huai Sieo Bridge	Sheet No.
06. 01		



GENERAL ELEVATION
SCALE 1:100



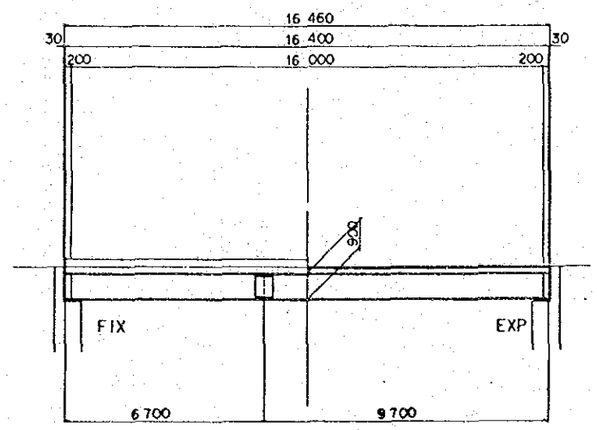
SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



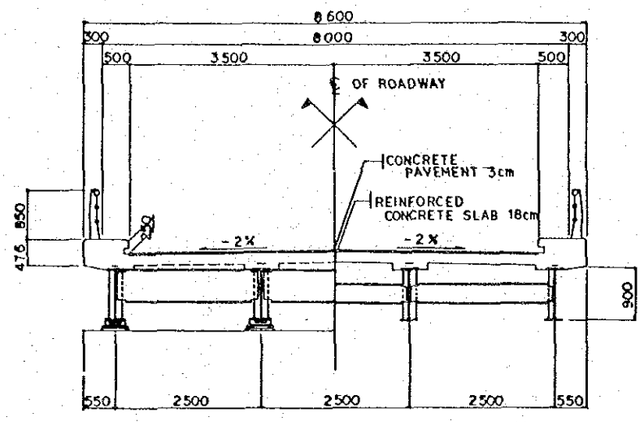
GENERAL PLAN
SCALE 1:100

BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

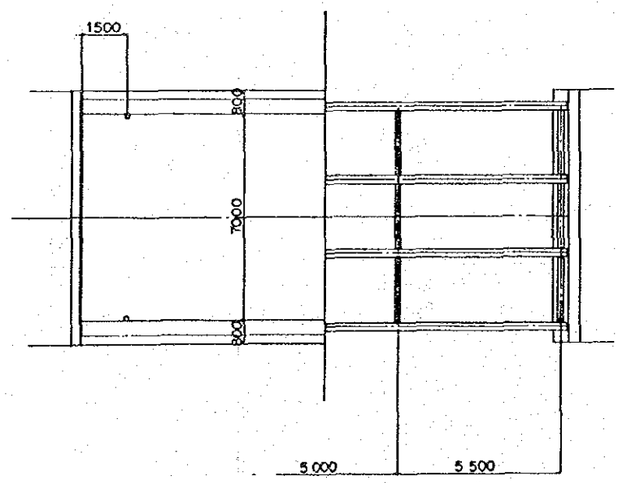
Bridge No.	Huai Na Bridge	Sheet No.
06.04		



GENERAL ELEVATION
SCALE 1:100

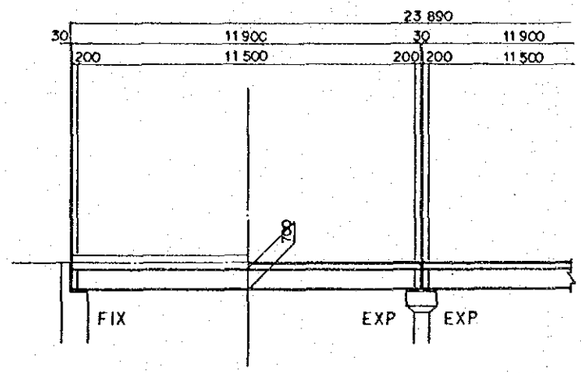


SUPERSTRUCTURE CROSS SECTION
SCALE 1:50

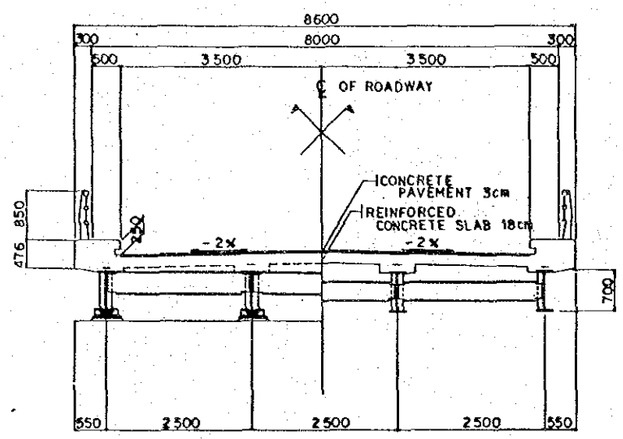


GENERAL PLAN
SCALE 1:100

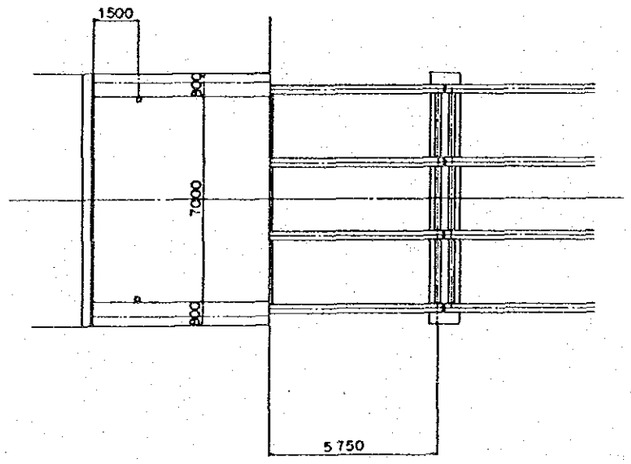
BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND		
Bridge No.	Huai Khaen Long No. 2 Bridge	Sheet No.
08.05		



GENERAL ELEVATION
SCALE 1:100



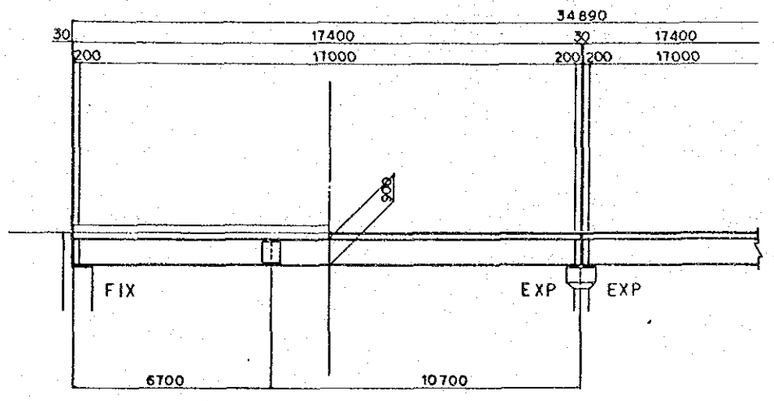
SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



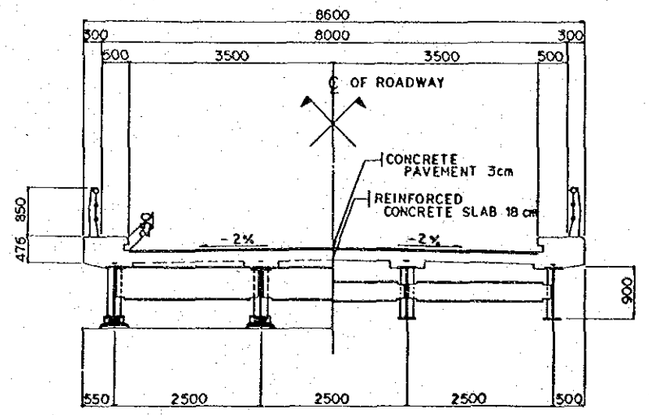
GENERAL PLAN
SCALE 1:50

BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

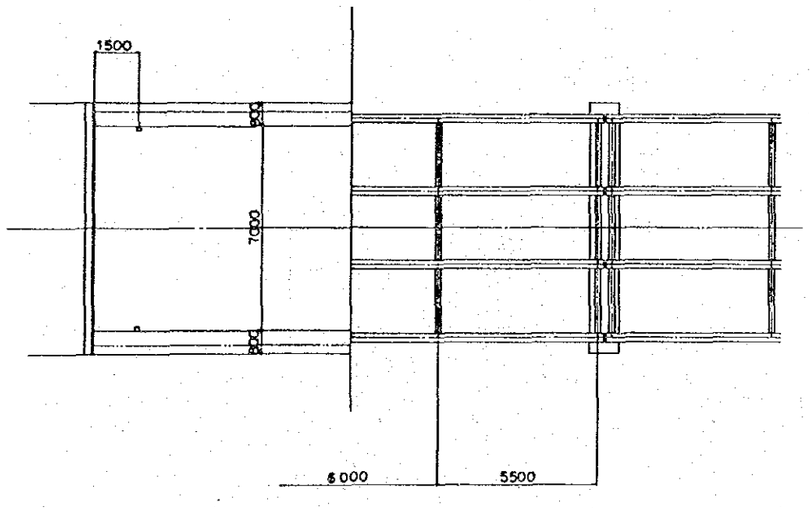
Bridge No.	Hual Siao No. 1 Bridge	Sheet No.
09.03		



GENERAL ELEVATION
SCALE 1:100

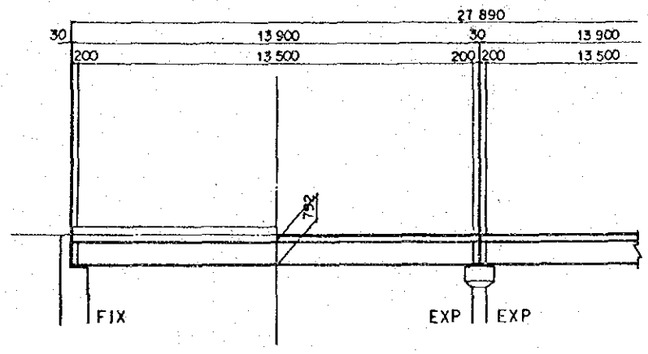


SUPERSTRUCTURE CROSS SECTION
SCALE 1:50

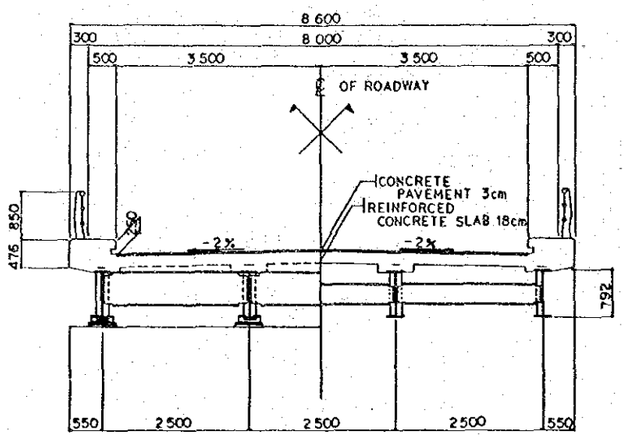


GENERAL PLAN
SCALE 1:100

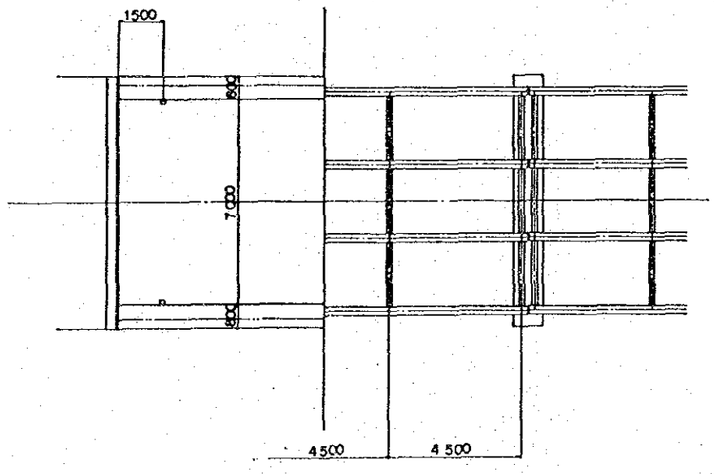
BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND		
Bridge No.	Huai So Phra Bridge	Sheet No.
15.04		



GENERAL ELEVATION
SCALE 1:100

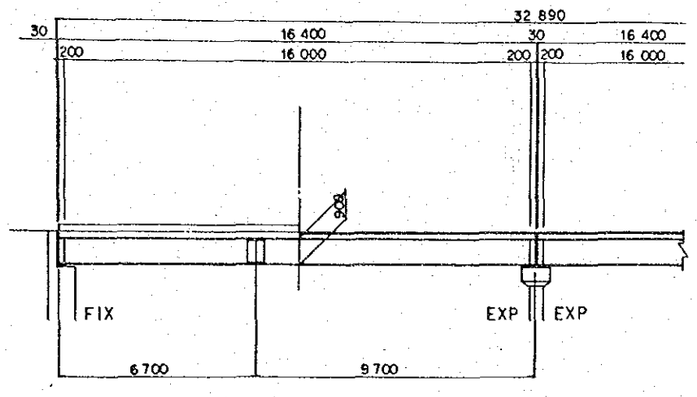


SUPERSTRUCTURE CROSS SECTION
SCALE 1:50

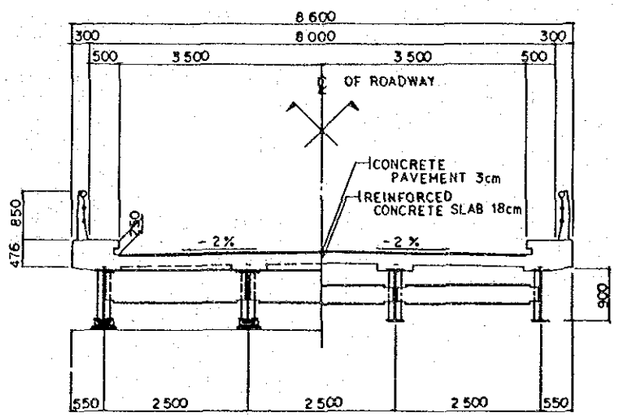


GENERAL PLAN
SCALE 1:100

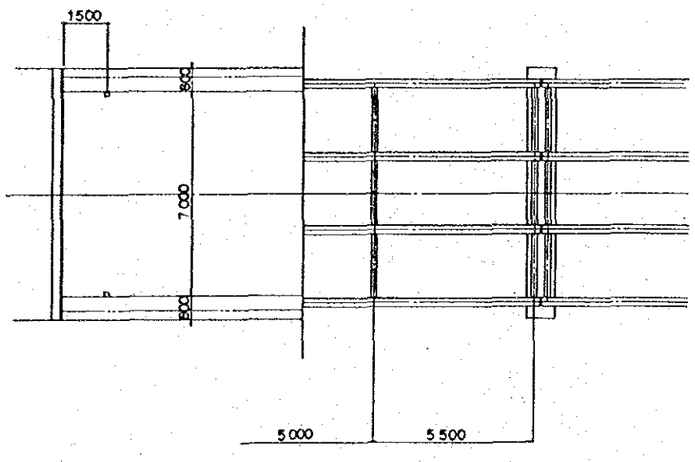
BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND		
Bridge No.	Huai Khaen Bridge	Sheet No.
15.06		



GENERAL ELEVATION
SCALE 1:100



SUPERSTRUCTURE CROSS SECTION
SCALE 1:50

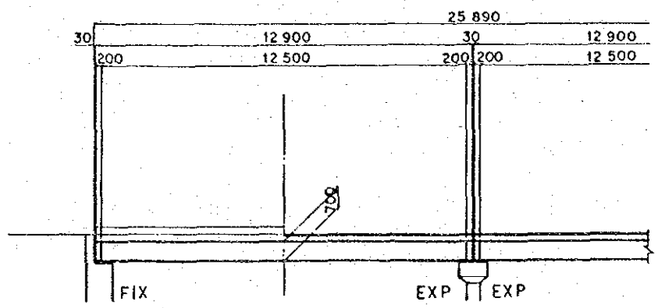


GENERAL PLAN
SCALE 1:100

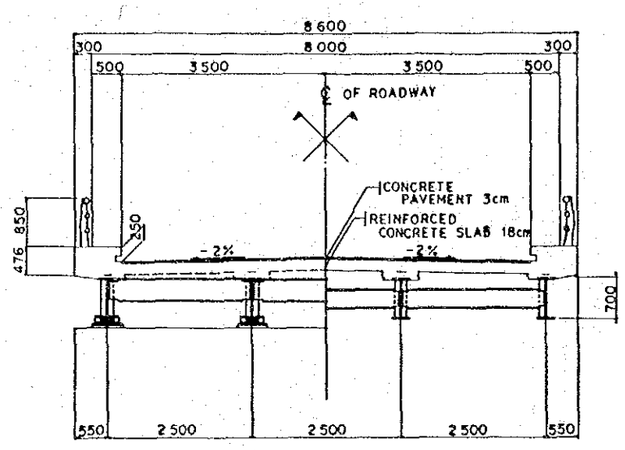
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge No.		Sheet No.

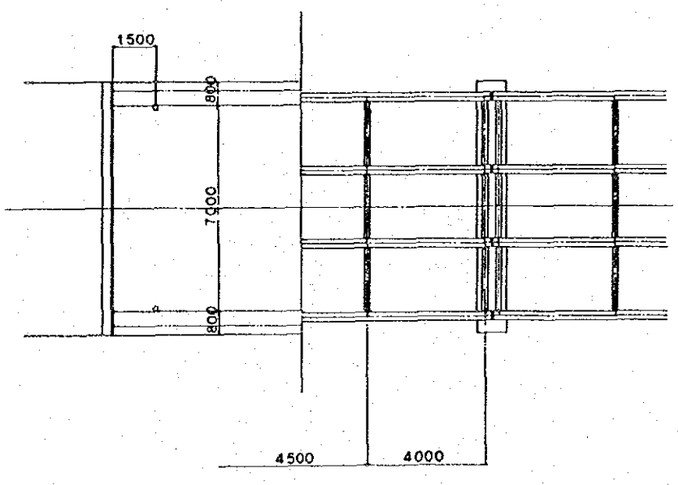
02.02	Huai Nong Ben Bridge
08.01	Huai Wang Pla Sium Bridge
09.01	Huai Pla Pong Bridge
09.04	Huai Siao No.2 Bridge
10.01	Huai Palan Muang Bridge
14.06	Nong Bung Mo No.3 Bridge



GENERAL ELEVATION
SCALE 1:100



SUPERSTRUCTURE CROSS SECTION
SCALE 1:50

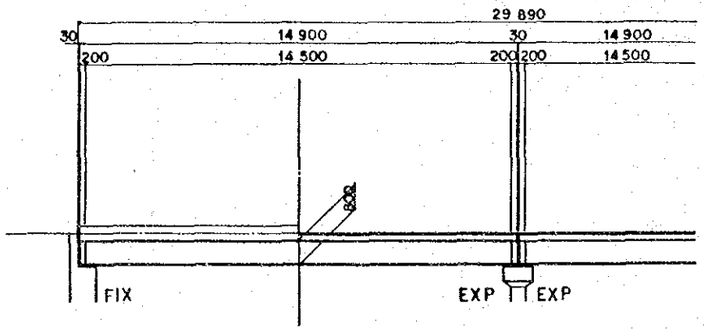


GENERAL PLAN
SCALE 1:100

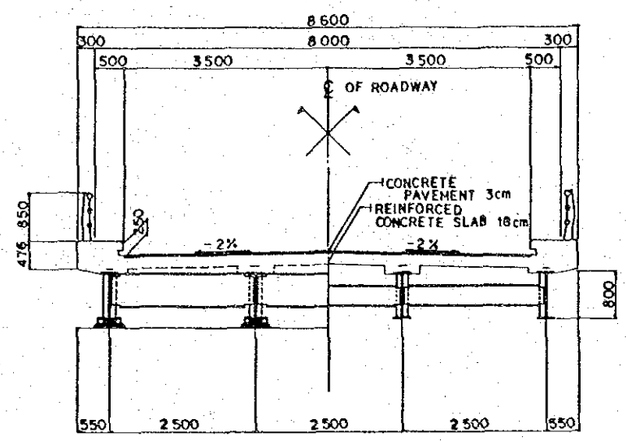
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge No.		Sheet No.

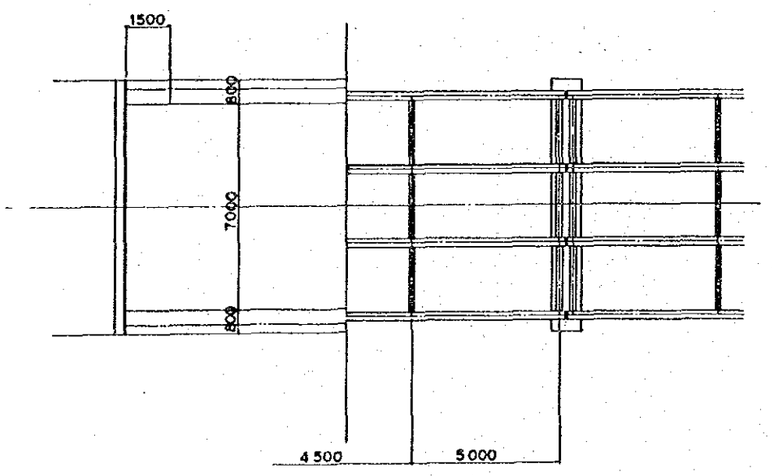
02.03 Huai Yang Bridge
03.02 Huai Yai Bridge



GENERAL ELEVATION
SCALE 1:100



SUPERSTRUCTURE CROSS SECTION
SCALE 1:50

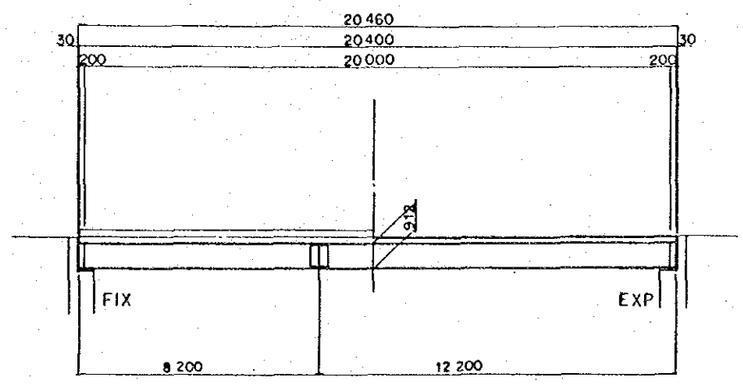


GENERAL PLAN
SCALE 1:100

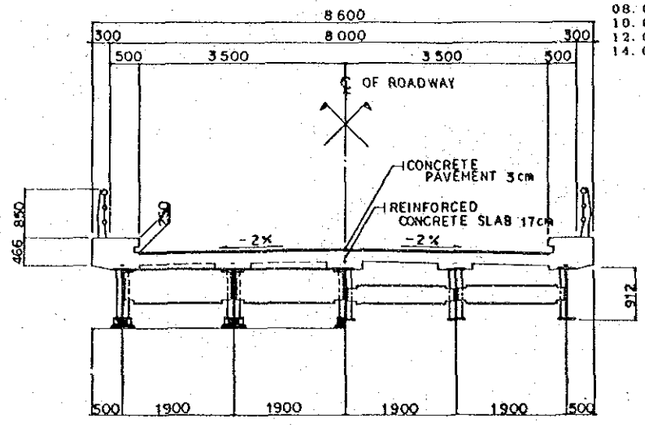
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge No.		Sheet No.

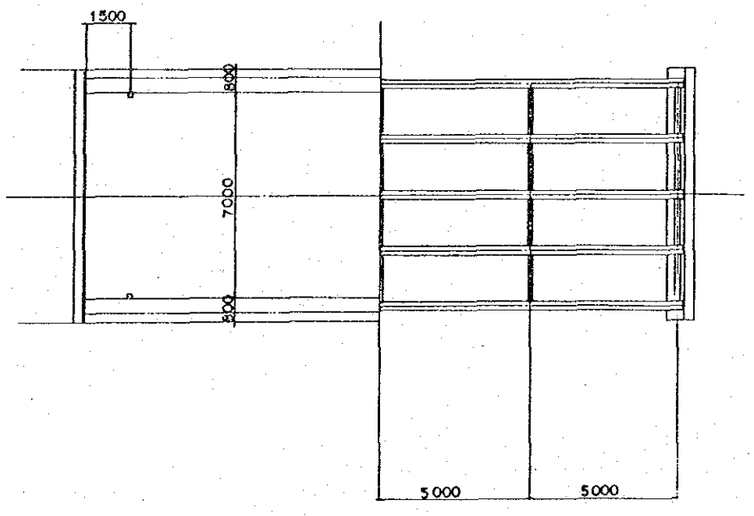
03.01 Huai Khon Tha Bridge
03.03 Huai Phai No.1 Bridge
04.04 Huai Na Khoi Bridge
04.05 Huai Na Krathum Bridge
07.07 Huai Po Bridge
08.02 Huai Na Pong Bridge
08.03 Huai Khaen Bridge
08.04 Huai Khaen Long No.1 Bridge
10.02 Huai Kantruat Bridge
12.02 Huai Thamo Bridge
14.07 Nong Bung Mo No.4 Bridge



GENERAL ELEVATION
SCALE 1:100



SUPERSTRUCTURE CROSS SECTION
SCALE 1:50

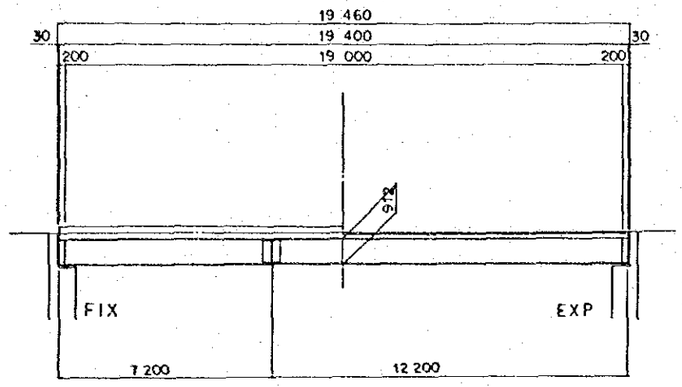


GENERAL PLAN
SCALE 1:100

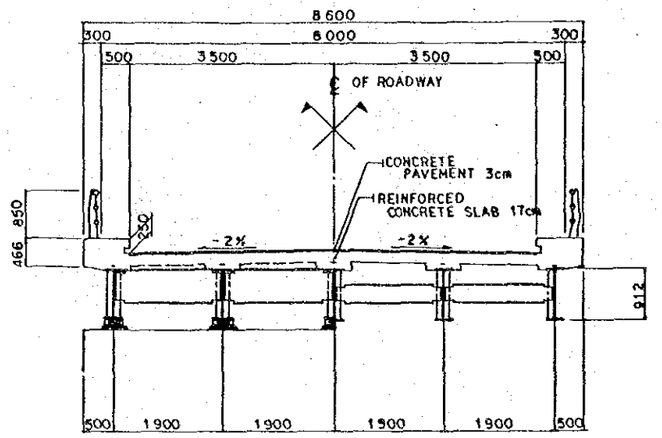
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge No.		Sheet No.

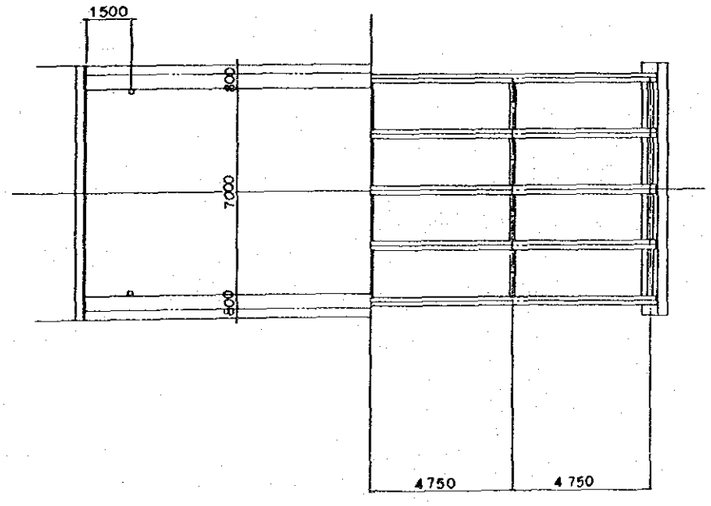
03. 04 Huai Phai No. 2 Bridge
06. 03 Huai Lom Khom No. 2 Bridge
13. 02 Huai Sieo No. 2 Bridge



GENERAL ELEVATION
SCALE 1:100



SUPERSTRUCTURE CROSS SECTION
SCALE 1:50

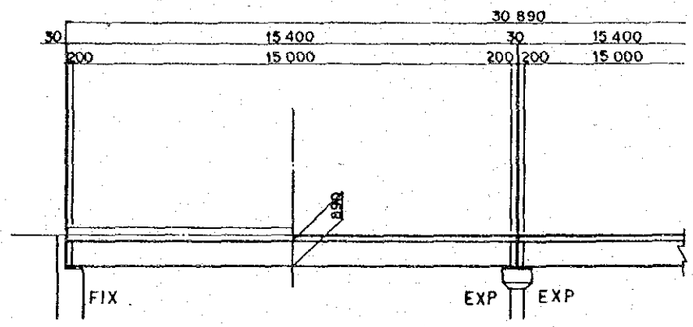


GENERAL PLAN
SCALE 1:100

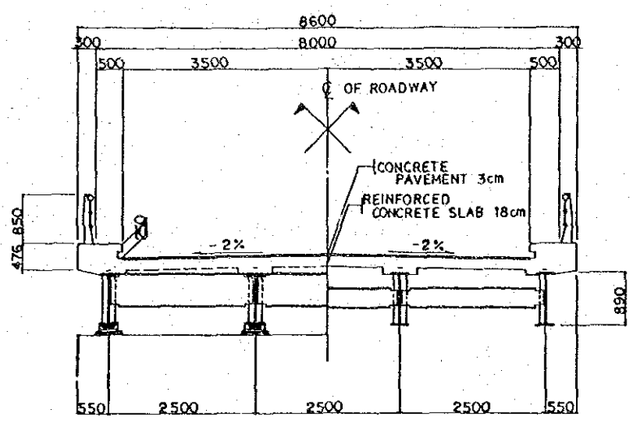
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge No.		Sheet No.

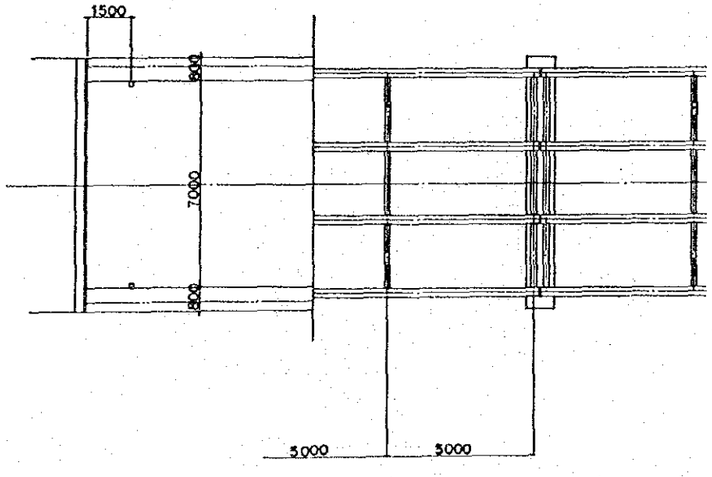
07.08 Huai Ngui Bridge
11.03 Ban Na Kae Bridge
13.03 Huai Ban Mui Bridge
15.03 Huai Sa Do Bridge
15.05 Huai Chock Bridge



GENERAL ELEVATION
SCALE 1:100



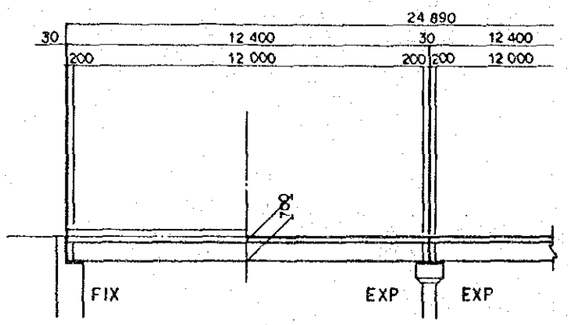
SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



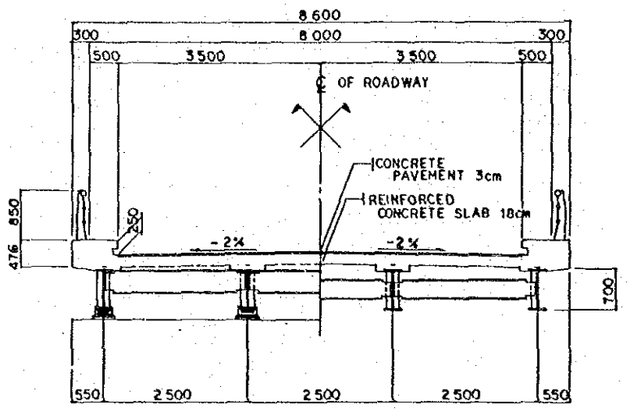
GENERAL PLAN
SCALE 1:100

BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

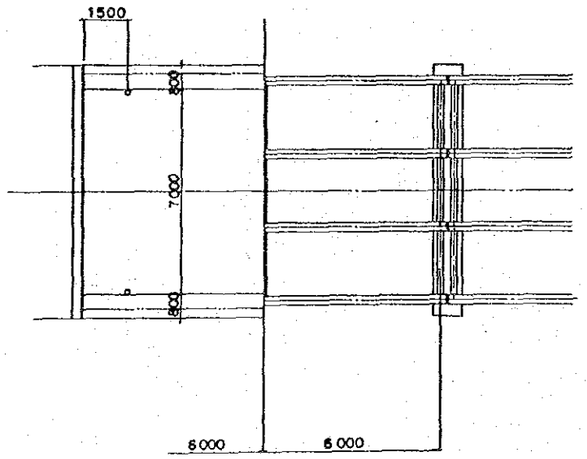
Bridge No.	Huai Sieo No. 1 Bridge	Sheet No.
13.01		



GENERAL ELEVATION
SCALE 1:100



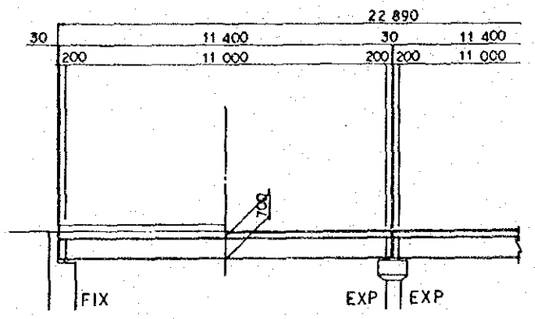
SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



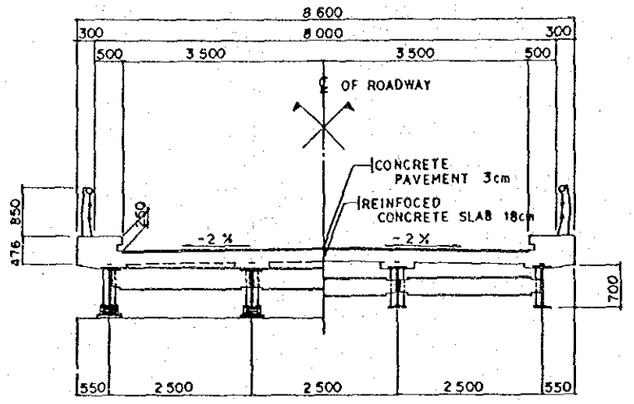
GENERAL PLAN
SCALE 1:100

BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

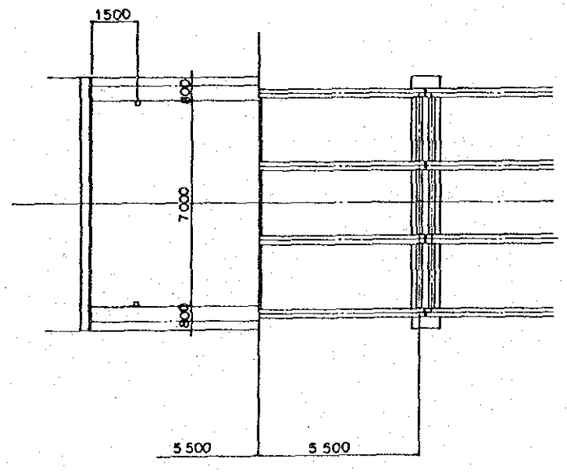
Bridge No.	Huai Ran Bridge	Sheet No.
13.04		



GENERAL ELEVATION
SCALE 1:100



SUPERSTRUCTURE CROSS SECTION
SCALE 1:50

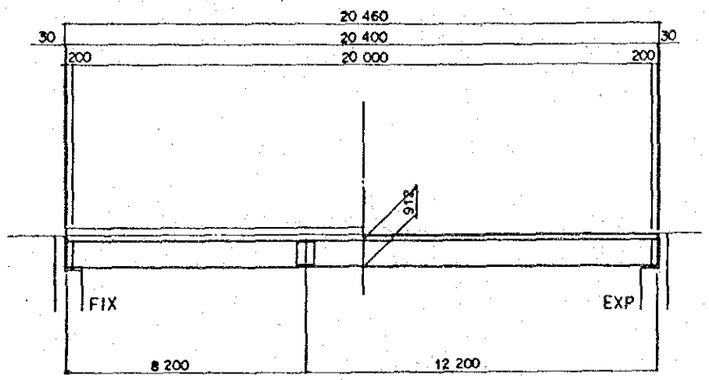


GENERAL PLAN
SCALE 1:100

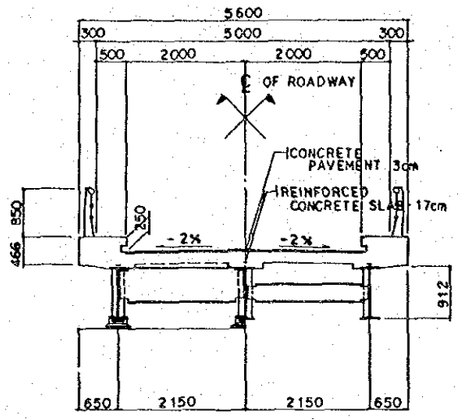
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge No.		Sheet No.

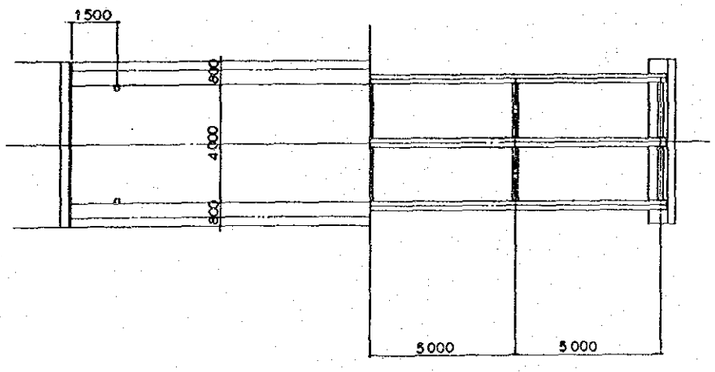
13.05 Huai Bang Phuan No. 1 Bridge
13.06 Huai Bang Phuan No. 2 Bridge



GENERAL ELEVATION
SCALE 1:100



SUPERSTRUCTURE CROSS SECTION
SCALE 1:50

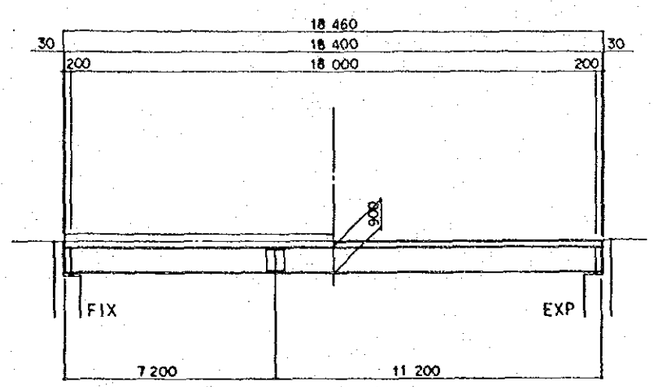


GENERAL PLAN
SCALE 1:100

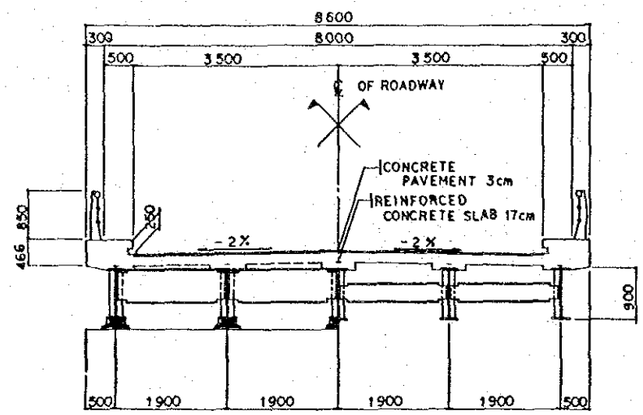
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge No.		Sheet No.

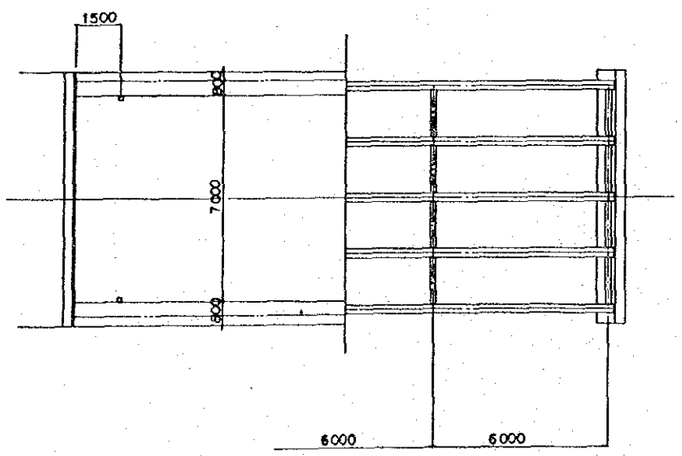
14.04 Nong Bung No. 1 Bridge
14.05 Nong Bung No. 2 Bridge



GENERAL ELEVATION
SCALE 1:100



SUPERSTRUCTURE CROSS SECTION
SCALE 1:50

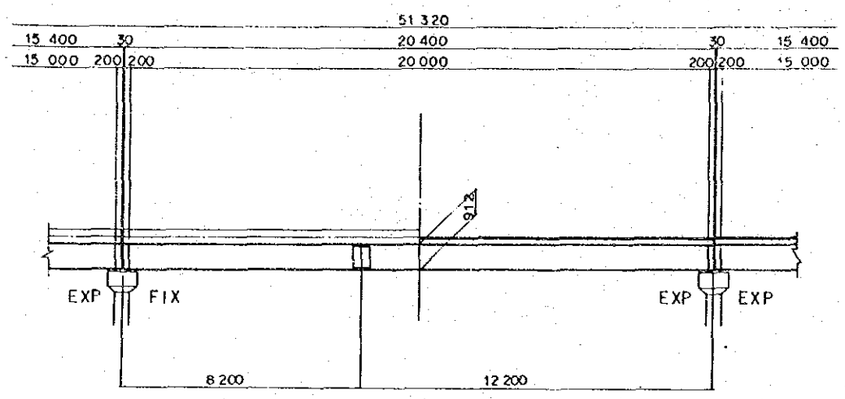


GENERAL PLAN
SCALE 1:100

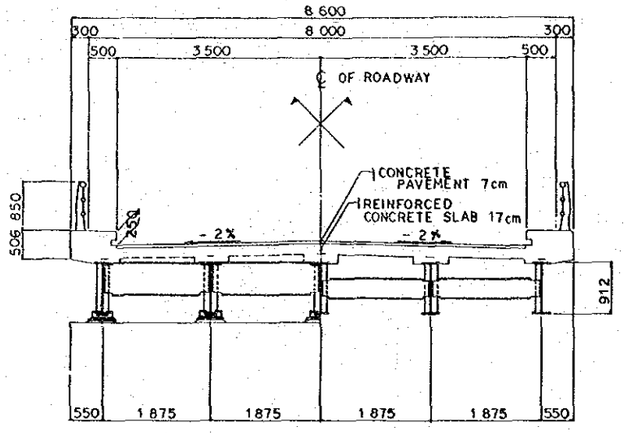
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge No.		Sheet No.

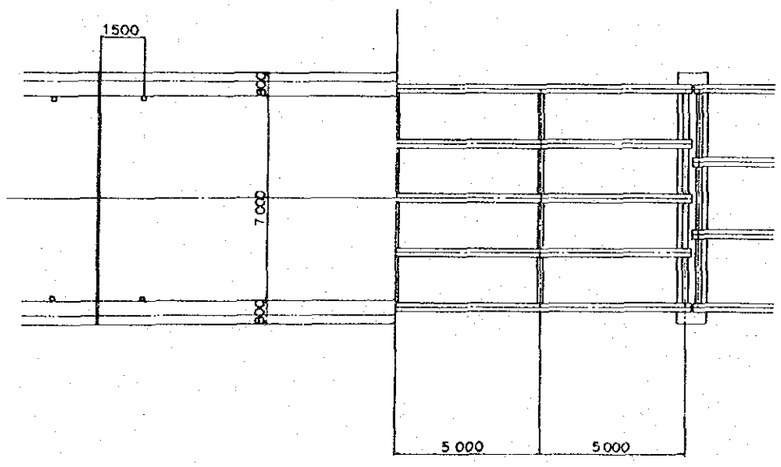
05.01 Lam Klang Bridge
15.07 Lam Som No. 1 Bridge



GENERAL ELEVATION
SCALE 1:100



SUPERSTRUCTURE CROSS SECTION
SCALE 1:50

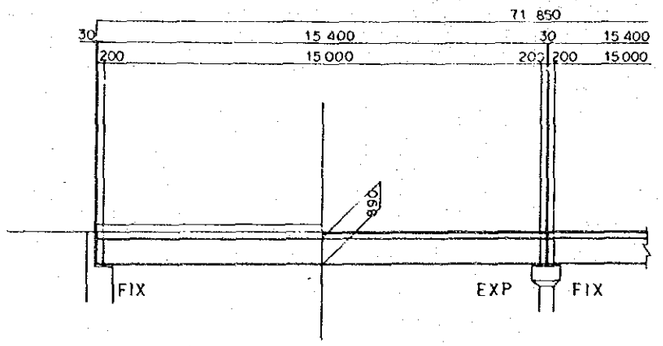


GENERAL PLAN
SCALE 1:100

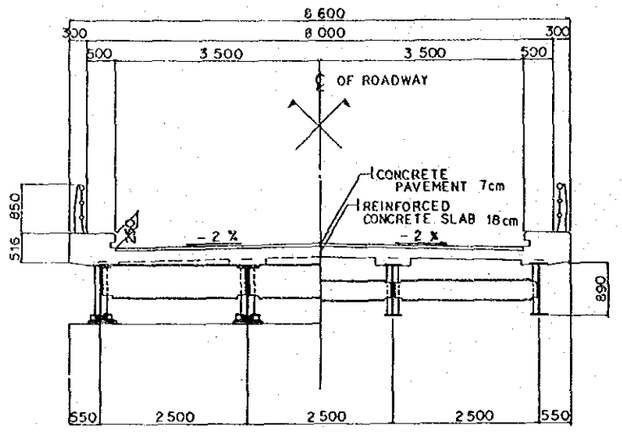
BASIC DESIGN STUDY ON THE PROJECT
FOR BRIDGE CONSTRUCTION IN NORTHEAST THAILAND

Bridge No.		Sheet No.

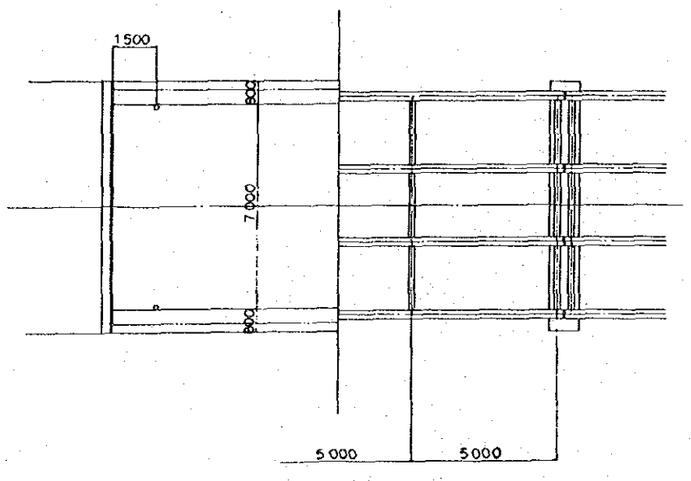
05. 01 Lam Klang Bridge
11. 01 Lam Nam Kam Bridge
15. 07 Lam Som No. 1 Bridge



GENERA ELEVATION
SCALE 1:100



SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



GENERAL PLAN
SCALE 1:100