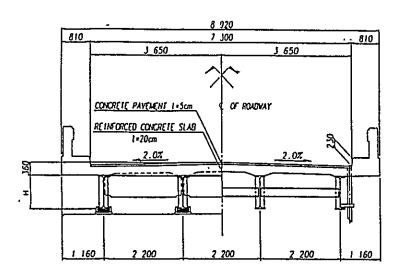
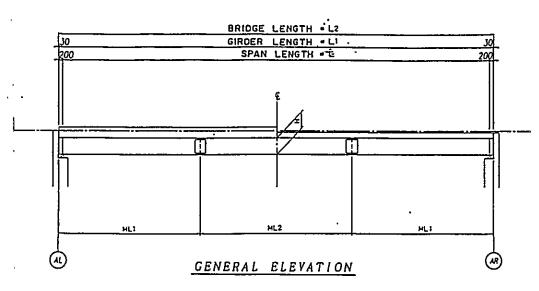
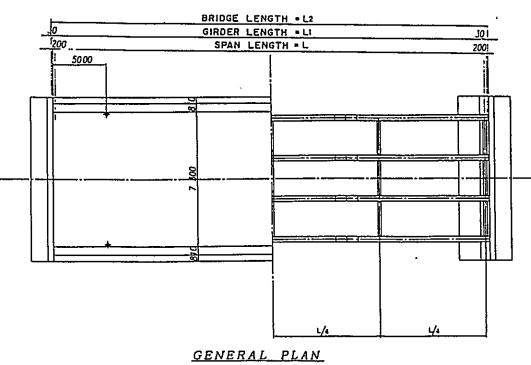
# BASIC DESIGN OF SUPERSTRUCTURES (GROUP 1)

8.7人



SUPERSTRUCTURE CROSS SECTION





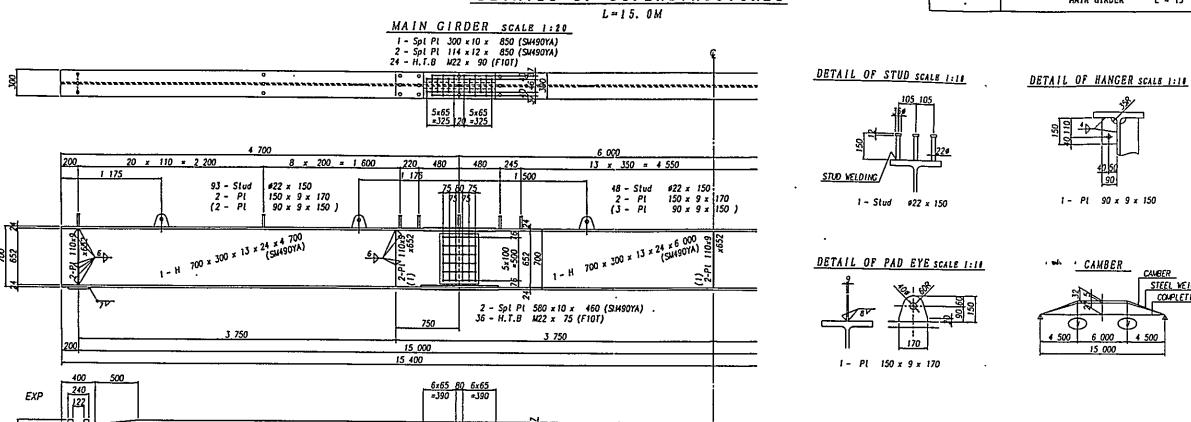
FOR CONSTI	DESIGN Bridges				MINDA	IAO AREA	
BRIDGE NO.	. <u>-</u>					SHEET	NO.
4	GF	NEDA:	VIEU	 _		20	

SPAN	BR1DGE LENGTH	GIRDER LENGTH	GIRDER SIZE	MENBE LENGTH		
L (m)	L <sub>2</sub> (m)	L <sub>1</sub> (m)	3122	M L 1 (m)	M L 2 (m)	L/4
15	15. 46	15. 4	0. 700	4. 7	6. 0	3. 75
18	18. 46	18. 4	0. 890	5. 5	7. 4	4. 5
19	19. 46	19. 4	0. 900	5. 7	8. 0	4. 75
20	20. 46	20. 4	0. 912	6. 2	8. 0	5. 0
21	21. 46	21. 4	0. 912	6. 7	8. 0	5. 25
22	22. 46	22. 4	0. 912	7. 0	8. 4	5. 5
23	23. 46	23. 4	0, 912	7. 7	8. 0	5. 75
_24	24. 46	.24. 4	0. 912	7. 95	8. 5	6. 0

:	FOR CONSTR	BASIC DESIGN STUDY ON THE PROJECT UCTION OF BRIDGES ALONG RURAL ROADS IN MINDA	NAO AREA
<u>DETAILS OF SUPERSTRUCTURES</u>	BRIDGE NO.	**************************************	SHEET NO.
L=1.2.0M		MAIN GIRDER L = 12	30
MAIN GIRDER SCALE 1:20   1 - Spl Pl JOO x 10 x 720 (SM490YA)   2 - Spl Pl I14 x 10 x 720 (SM490YA)   20 - H.T.B M22 x 80 (F10T)   20 - H.T.B M22 x 80 (F10T)   3 - M.			SCALB 1:10
4 200  200	x 110 = 2 200 2 050	STUD WELDING  1 - Stud  DETAIL OF HANGER  1 - PL 90 x 9 x  DETAIL OF PAD EYE  500 400 Fix	SCALB [:1 <b>0</b>
		170	
1 - Sole Pl 240 x 22 x 300	1 -	Sole Pl 190 x 22 x 300	- 1
END FLOOR BEAM SCALE 1:20    1 - Spi Pi 199 x H x 720 (SM907M)   1- H . 495 x 199 x 9 x 14 x 2 130 (SM907M)   1- H . 495 x 199 x 19 x 19 x 19 x 19 x 19 x 19 x	NOTS I. MATERIAL N. S. SUPPORT CO	MARKING  12 400 20 12 000 200  6 000 6 000 4 200 8 200  5 x 2 400 = 12 000  HANGER  P)  OT SPECIFIED IS SS408  NOITION (FIX OR EXP) IS REFERED TO BRIDGE ABBOLIC BUT IN THIS DEATING IS MAXINUM	15.

BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA BRIDGE NO. MAIN GIRDER L = 15 31

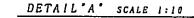
### DETAILS OF SUPERSTRUCTURES



1 - Spl Pl 300 x 12 x 940 (SM490YA) 2 - Spl Pl 114 x 19 x 940 (SM490YB) 28 - H. F. B M22 x 95 (F10T)

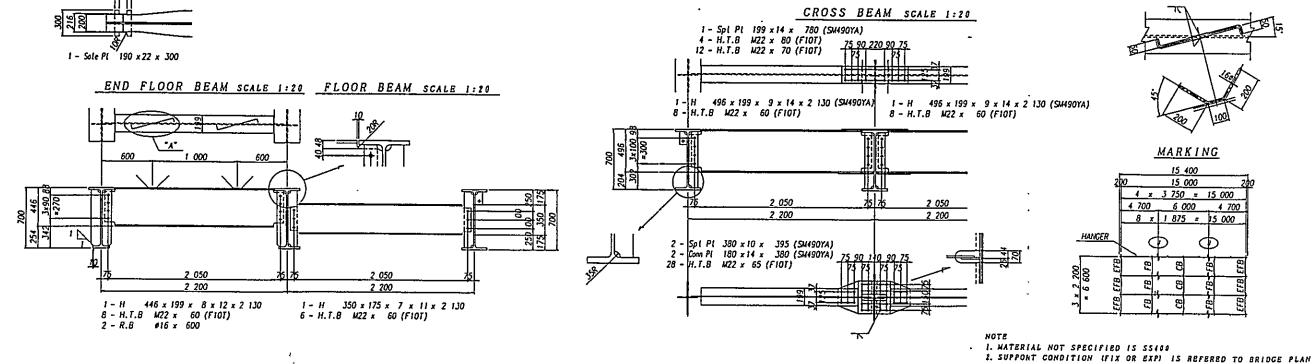
1 - Sole Pl 240 x 22 x 300

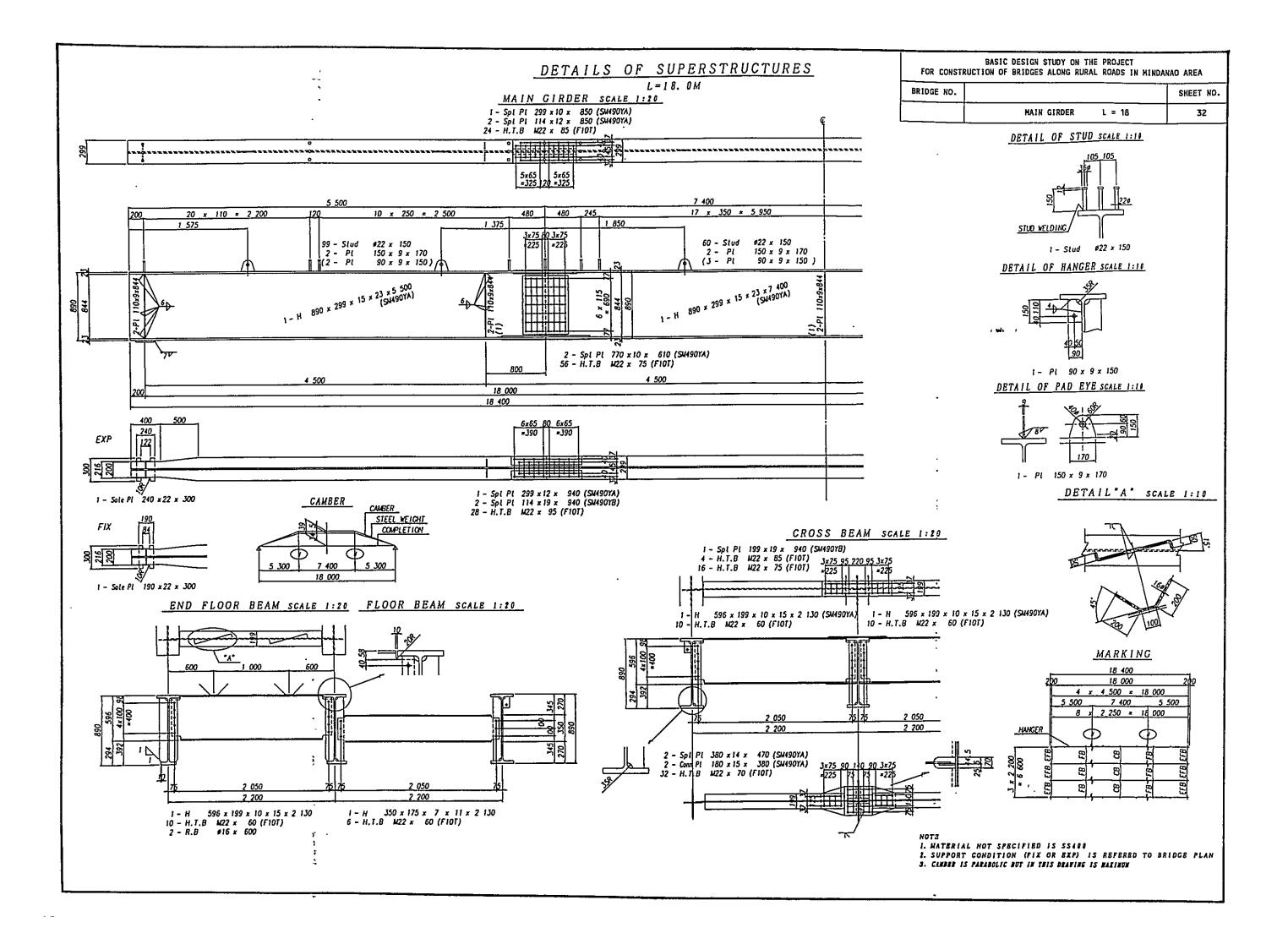
FIX

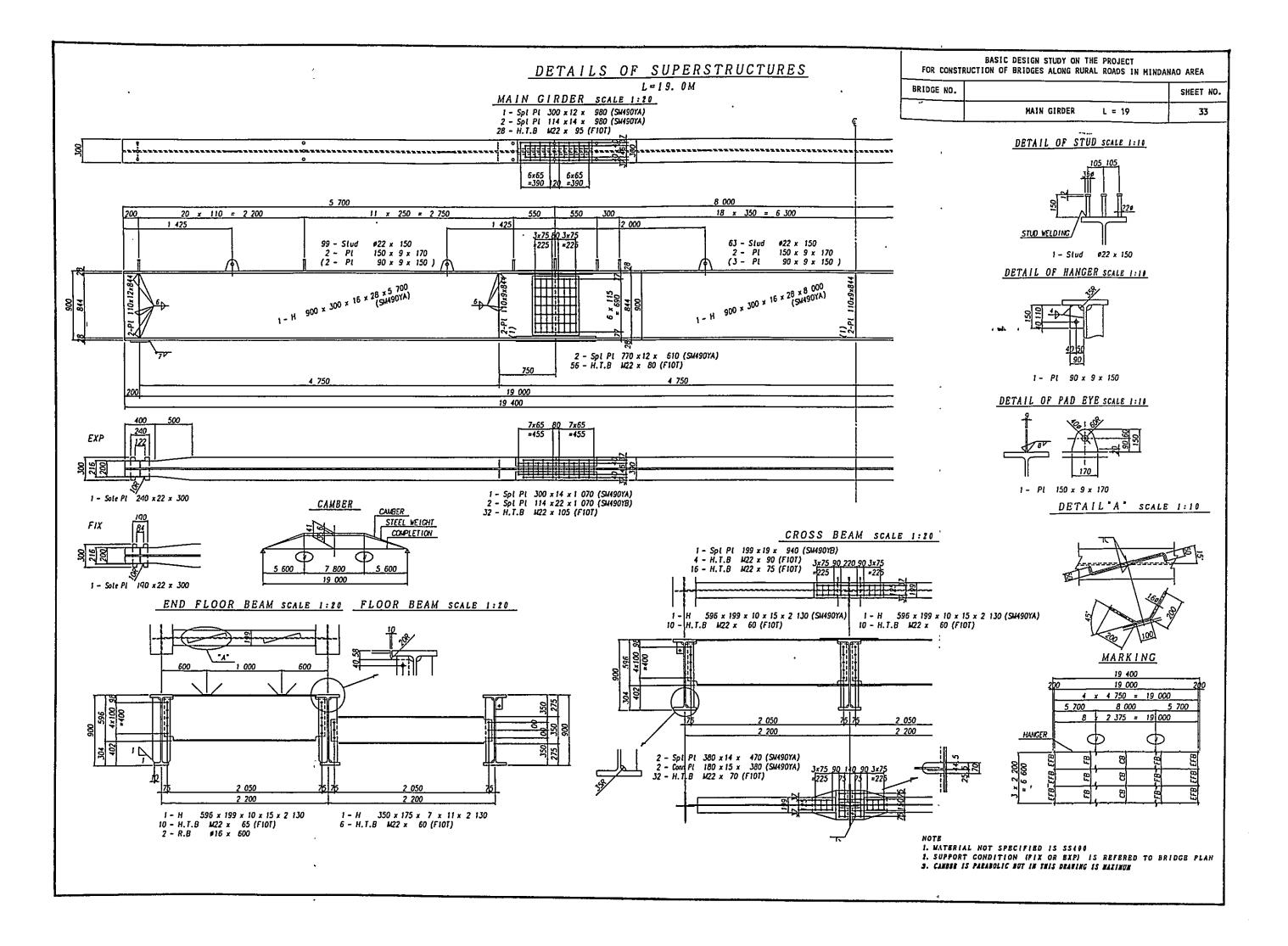


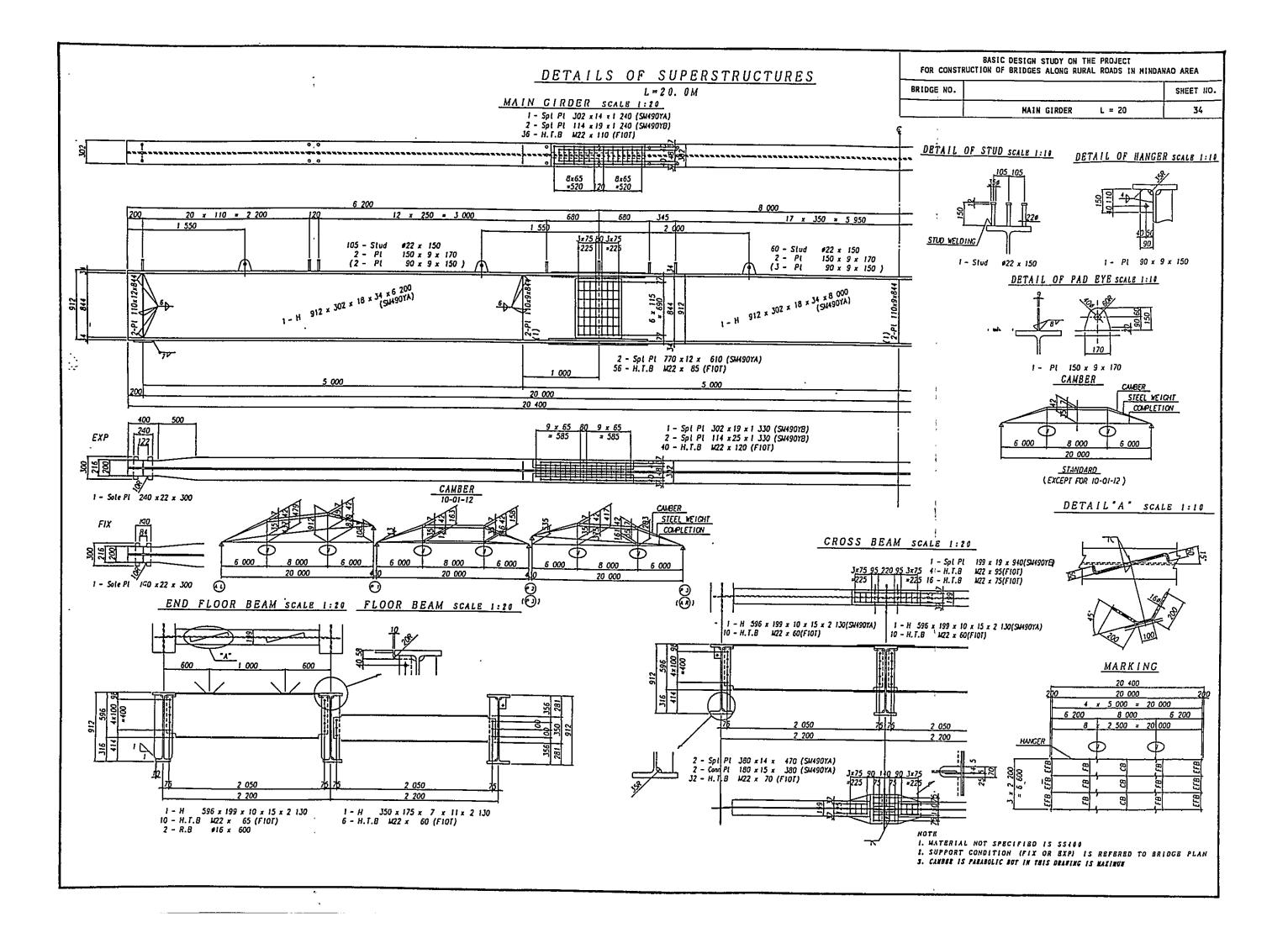
3. CAMBER IS PARABOLIC BUT IN THIS DRAFING IS MAZINON

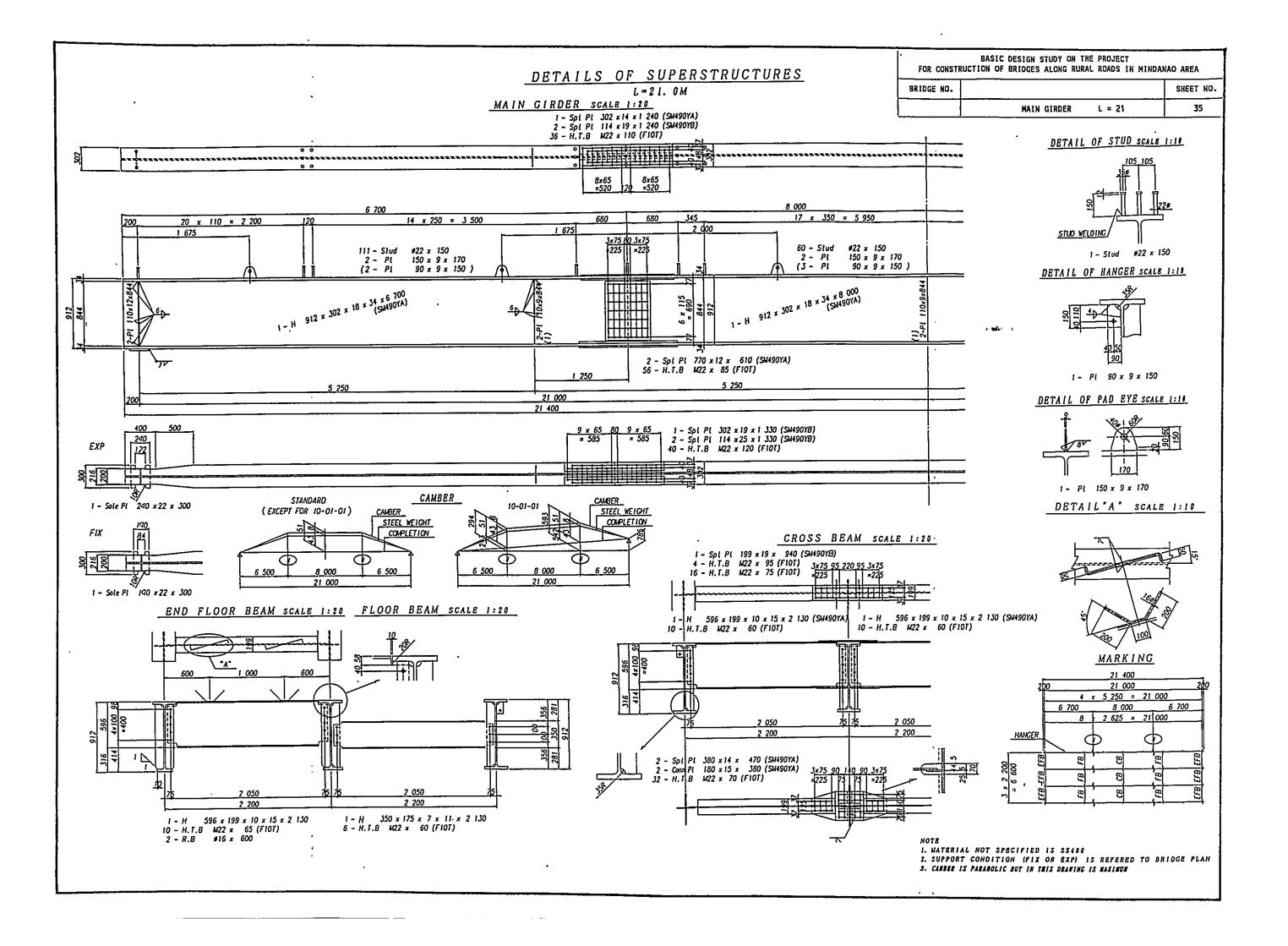
STEEL WEIGHT COMPLETION



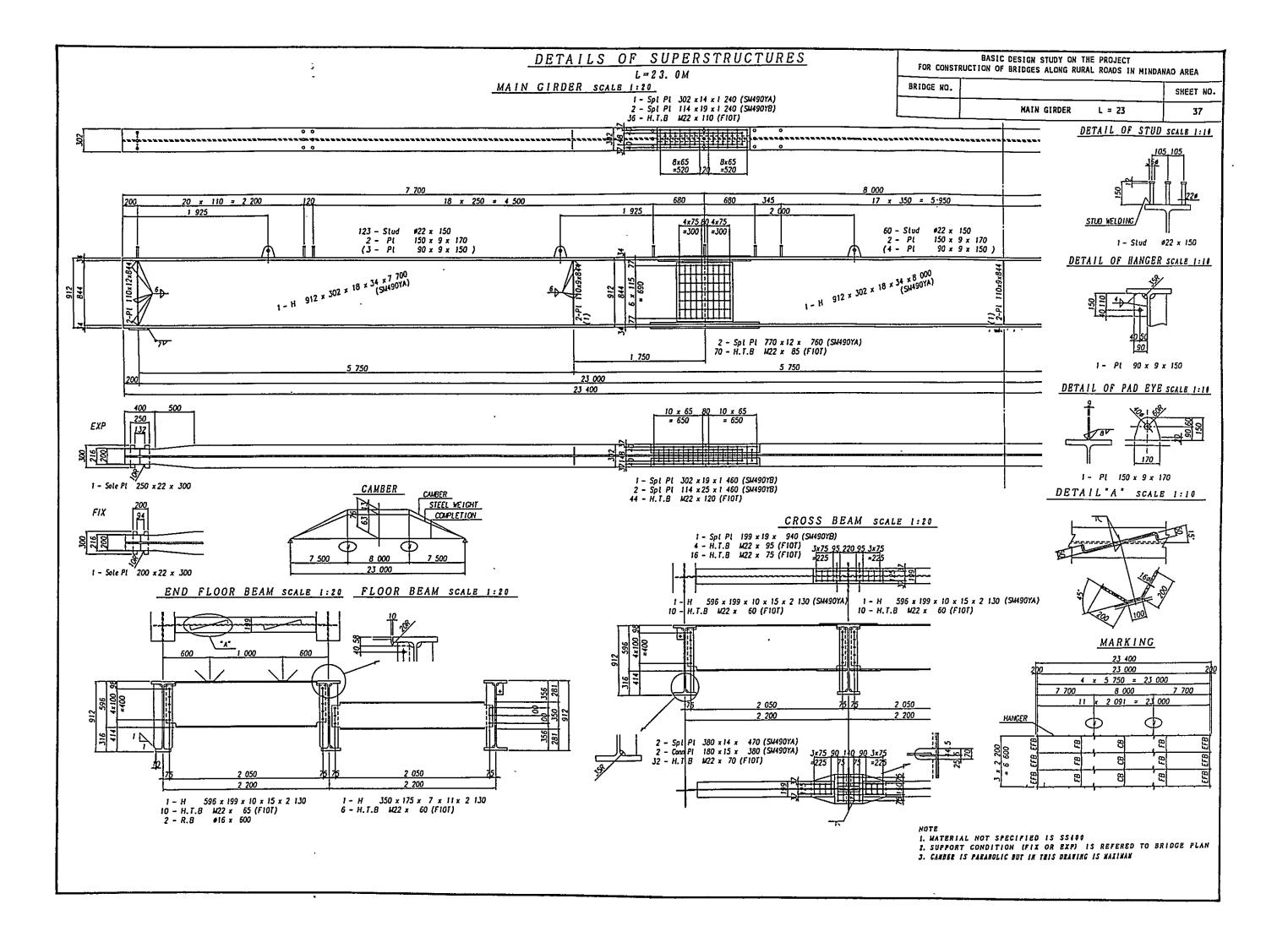


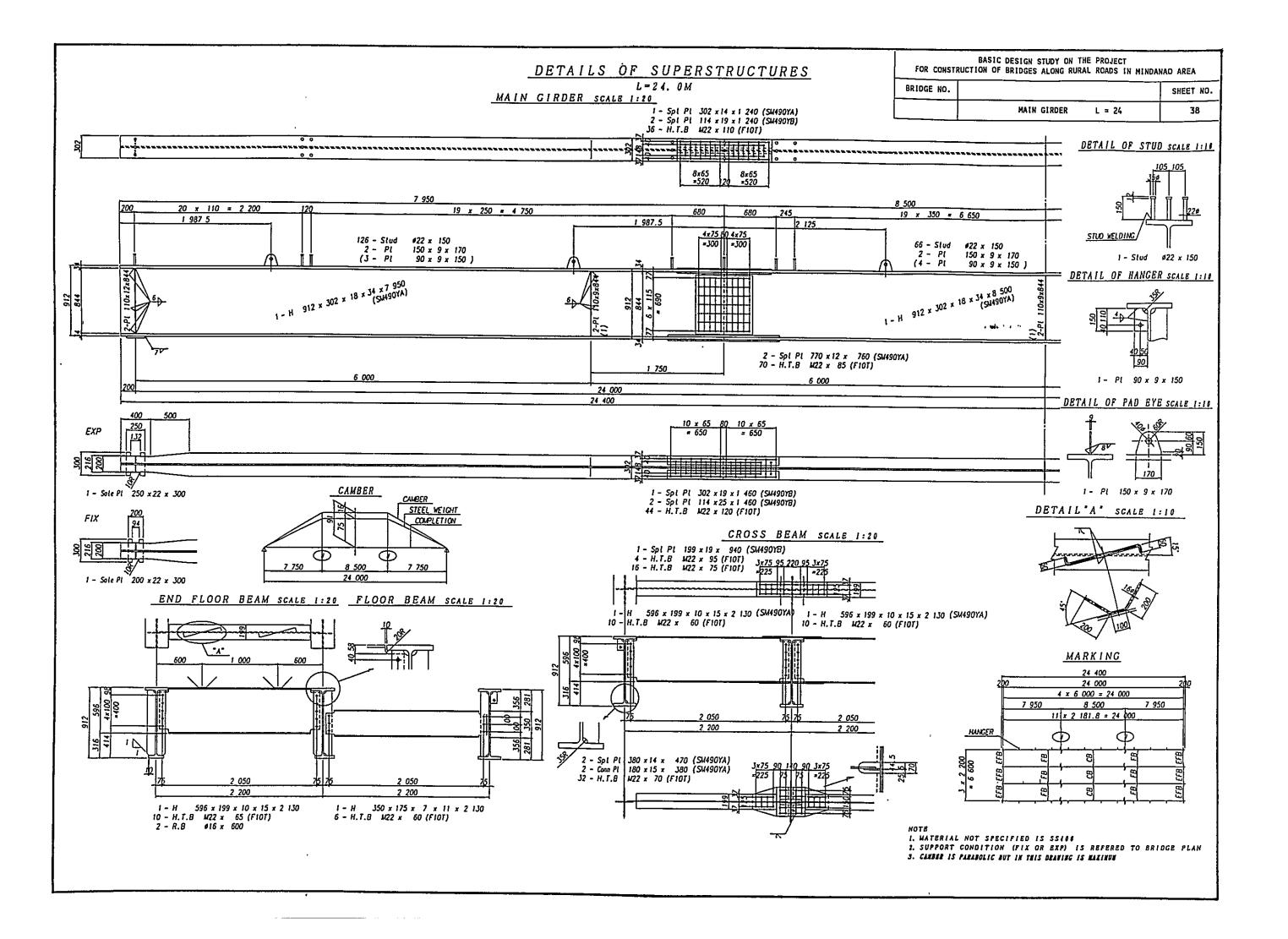


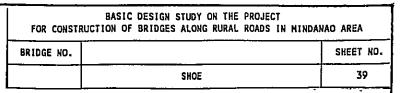




	FOR CONSTRUC	BASIC DESIGN STUDY ON THE PROJECT CTION OF BRIDGES ALONG RURAL ROADS IN MINDA	NAO AREA
<u>DETAILS OF SUPERSTRUCTURES</u>	BRIDGE NO.		SHEET NO.
L=22.0M MAIN GIRDER SCALE 1:20		MAIN GIRDER L = 22	36
1 - Spt Pt 302 x 14 x 1 240 (SM490YA) 2 - Spt Pt 114 x 19 x 1 240 (SM490YB)	<del></del>		<u>.                                    </u>
J6 - H.T.B W22 x 110 (F10T)		DETAIL OF STUD S	CALE 1:10
	*********		105
8x65 8x65 *520 20 =520		350	
7 000	-	g <del>4-</del>	]
200 20 x 110 = 2 200 170 15 x 250 = 3 750 680 680 370 18 x 350 = 6 3	00		1420
114 - Stud #22 x 150  114 - Stud #22 x 150  2 100  3x75 60 3x75  225    =225	2 150	<u>stuo welding</u> /	
2 Pi 150 x 9 x 170                   3 Pi 150	0 x 9 x 170 0 x 9 x 150 )	1 - Stud #2	
		DETAIL OF HANGER S	CALB 1:11
The state of the s	(AY0)		,
	, 11	99	
	54		
2 - Spl Pl 770 x 12 x 610 (SM490YA)		4 <u>0,50</u> <u>90</u>	
55 - H.T.B M22 x 85 (FIOT) 5 500		1 - Pl 90 x 9 x	150
200 22 000 22 400			SCALE 1:18
400 500 250 1 - Spl Pt 302 x 19 x 1 330 (SM490YB)			
EXP   250   2- Spl P1 114 ×25 ×1 330 (SM49078)   40 - H.T.B M22 × 120 (F10T)	Ì	80 -	250 650
		1 - PL 150 x 9 x 17.	,
1 - Sole PL 250 x 22 x 300		DETAIL "A" SCALE	
ELY 200 STEEL WEICHT SET STEEL WEICHT			1:10
CROSS BEAM SCALE	: 1:20		- 181=
1 - Sp( Pl 199 x 19 x 940 (SM490YB) 4 - H.T.B M22 x 95 (F10T) 3x75 95 220 95 3x75 6 800 8 400 6 800 16 - H.T.B M22 x 75 (F10T) = 275 1 = 275			
22,000	<del>}</del>		<u></u>
END FLOOR BEAM SCALE 1:20 FLOOR BEAM SCALE 1:20	# <u>*</u>	· · · · · · · · · · · · · · · · · · ·	* 20 T
1 - H 596 x 199 x 10 x 15 x 2 130 (SM490YA)   1 - H 5	96 x 199 x 10 x 15 : M22 x 60 (F10T)	x 2 130 (SM490YA)	
			Ì
		MARKING	
		22 400 200 22 000	200
		7 000 8 400	7 000
	050	8 × 2 750 = 22 00	0
	200	HANGER	
2 - Spil Pl 380 x 14 x 470 (SM490YA) 2 - Conn Pl 180 x 15 x 380 (SM490YA) 3x75 90 190 90 3x75		E	813
10 75 2 050 75 75 2 050 75 32 - H. T. B M22 x 70 (F10T) = 725 73 75 = 225	252	× 2 200 = 6 600 = 6 600 = 6 600	B EFB
2 200	14		<u> </u>
1 - H 596 x 199 x 10 x 15 x 2 130	3		
2 - R.8 #16 x 600	NOTE I. MATERIAL	NOT SPECIFIED IS SSIDD	l
	I. SUPPORT C J. CANBER IS P.	CONDITION (FIX OR EXP) IS REFERED TO BR PARABOLIC BUT IN THIS DEADING IS MAXIMUM	IDGE PLAN
			F







#### DRAIN S=1/10

J50

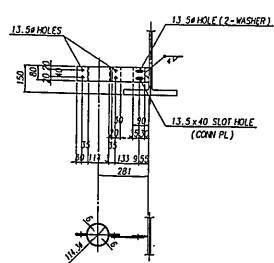
 $\overline{A}$ 

RB 13#

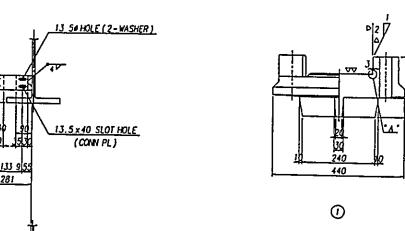
Pipe 100A (SGP)

## SUPPORT PLATE S=1/10

L = 24.0 m

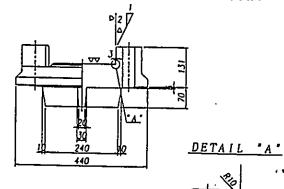


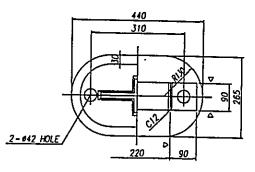
2-PL 80×6×310 1-PL 80×6×184 1-PL 80×6×90 2-8N MI2×35 (2-WASHER) 4-BN MI2×40



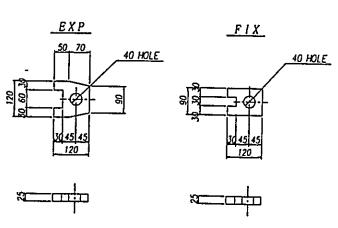
# SHOE S=1/6

(TSS60-58) TOTAL WEIGHT = 66kg



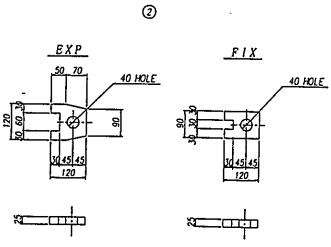


WEIGHT - 48kg

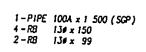


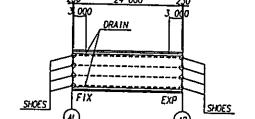
WEIGHT - 14kg

3



WEIGHT - 4kg





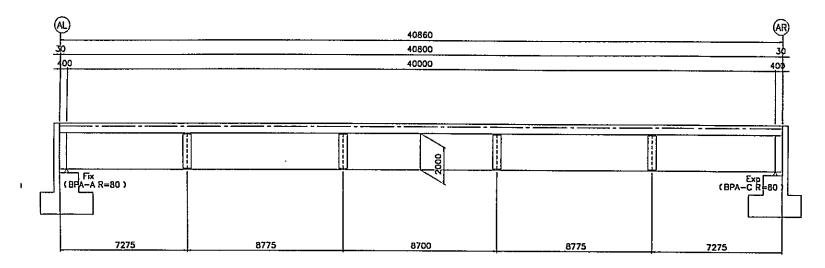
MARKING

NOTE

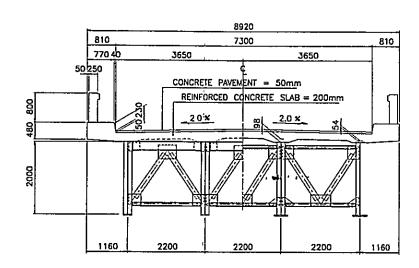
1. MATERIAL NOT SPECIFIED IS SS400

FOR CONST	BASIC DESIGN STUDY ON THE PROJECT RUCTION OF BRIDGES ALONG RURAL ROADS IN MINDA	NAO AREA
BRIDGE NO.	Mesli	SHEET NO.
10-02-01	GENERAL VIEW	40

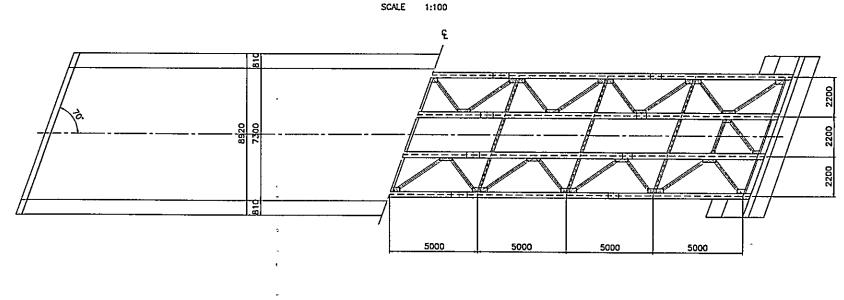
#### **GENERAL ELEVATION** SCALE 1:100



#### SUPERSTRUCTURE CROSS SECTION SCALE 1:50



GENERAL PLAN



1. DESIGN SPECIFICATION AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (15th EDITION 1992).

2. DESIGN LOAD

CONCRETE PAVEMENT 23.54 KN/m³
23.54 KN/m³ 2.1 DEAD LOAD: CONCRETE

2.2 LIVE LOAD: ROADWAY LIVE LOAD HS 20-44 SIDEWALK LIVE LOAD 2.873 KN/m2 2.3 TEMPERATURE CHANGE:

RISE +20" . FALL -20"

2.4 EARTHQUAKE LOAD:

C=0.20 WITH REFERENCE TO RELEVANT AASHTO PROVISIONS AND APPLICABLE CODE.

2.5 OTHER LOADS: IN ACCORDANCE WITH 1992 AASHTO SPECIFICATION.

3. MATERIALS

3.1 STEEL FOR SUPERSTRUCTURE:

STEEL SHALL BE SPECIFIED BY JIS GRADE. 3 2 CONCRETE:

CONCRETE FOR SUPERSTRUCTURE fe'=(CLASS A) fc=280kg/cm³
CONCRETE FOR SUBSTRUCTURE fe'=(CLASS A) fc=280kg/cm³
OTHER MATERIALS SHALL CONFORM TO JIS

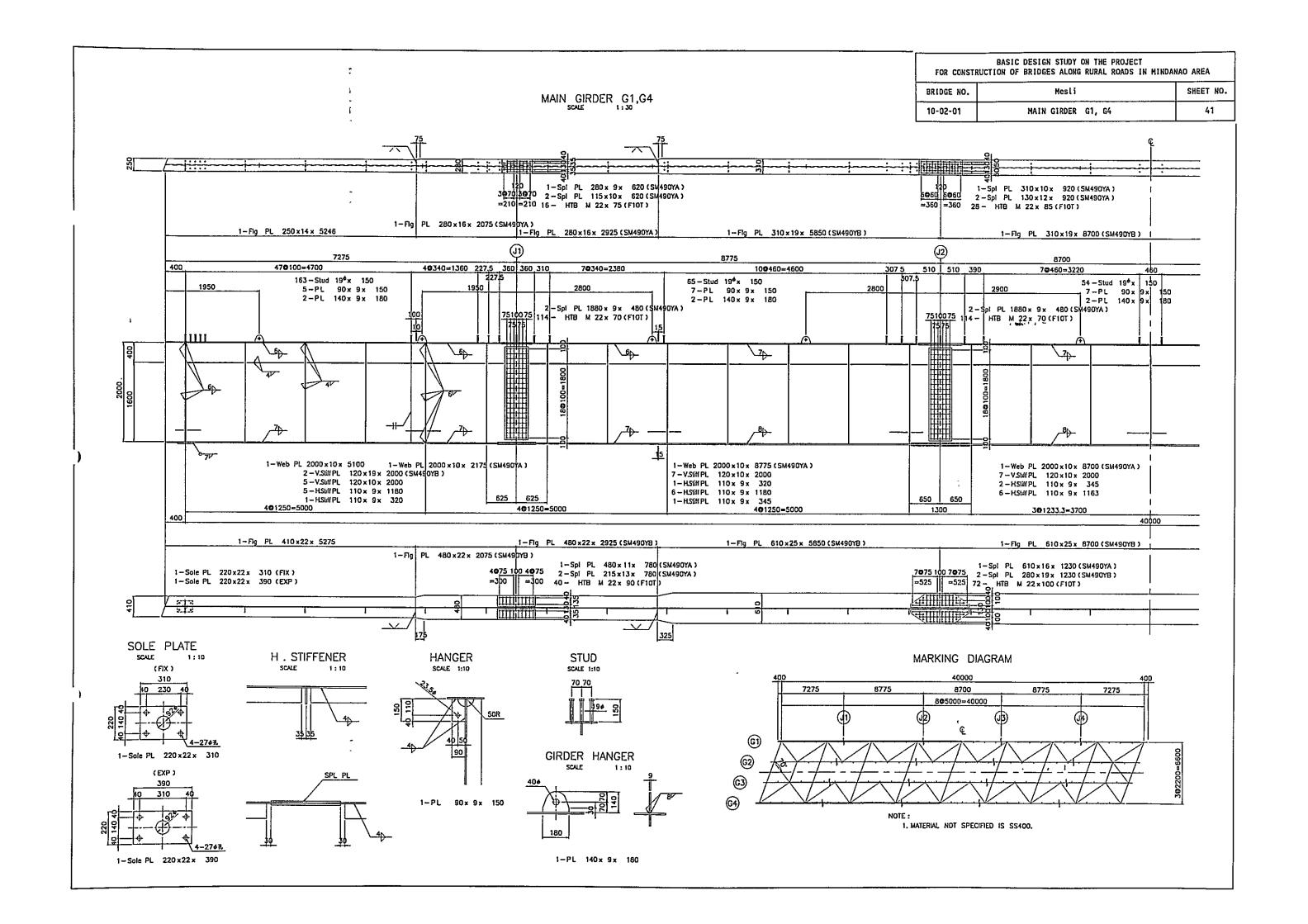
3.3 OTHERS: OTHER MATERIALS SHALL CONFORM TO JIS

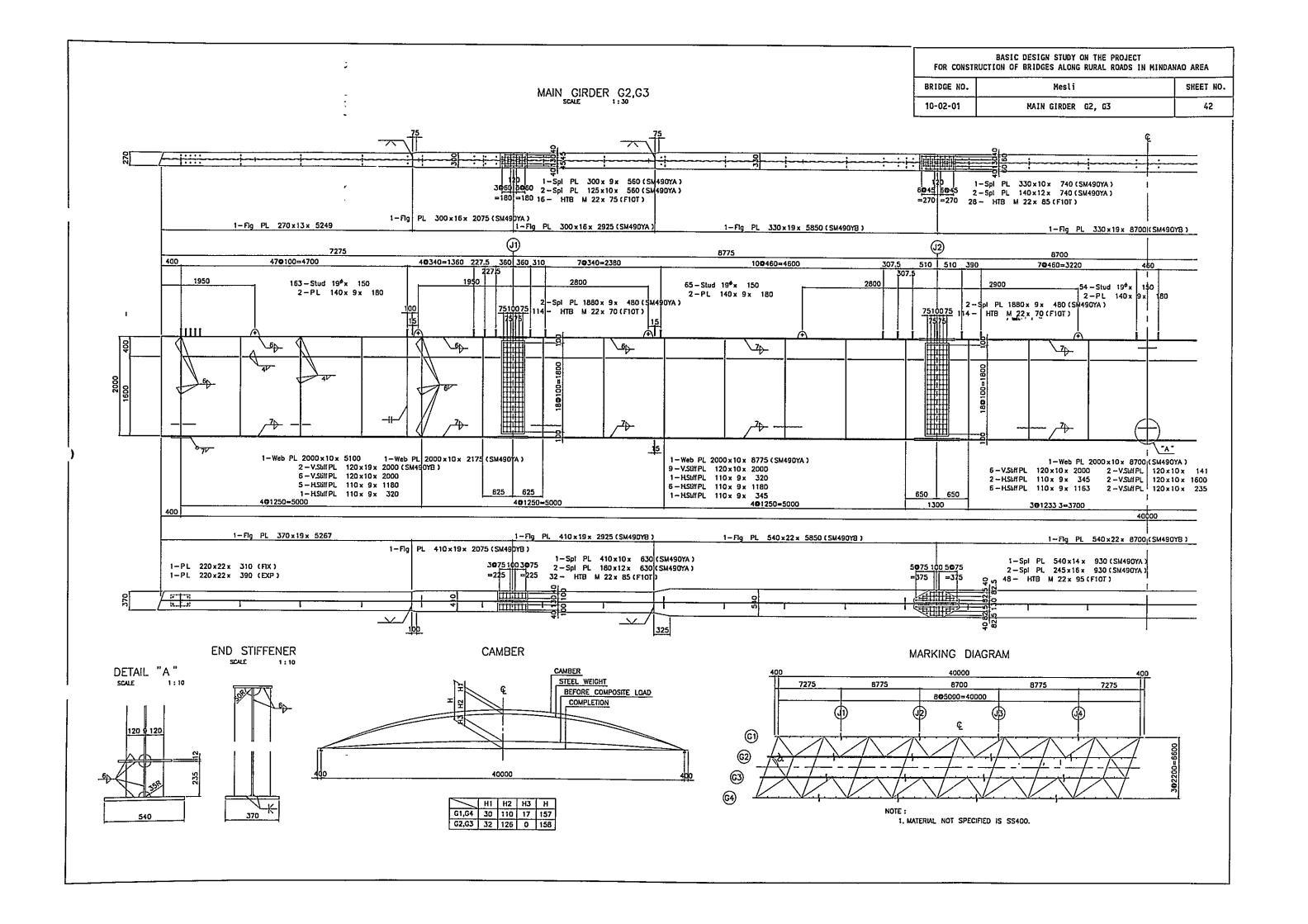
4. SUBSTRUCTURE

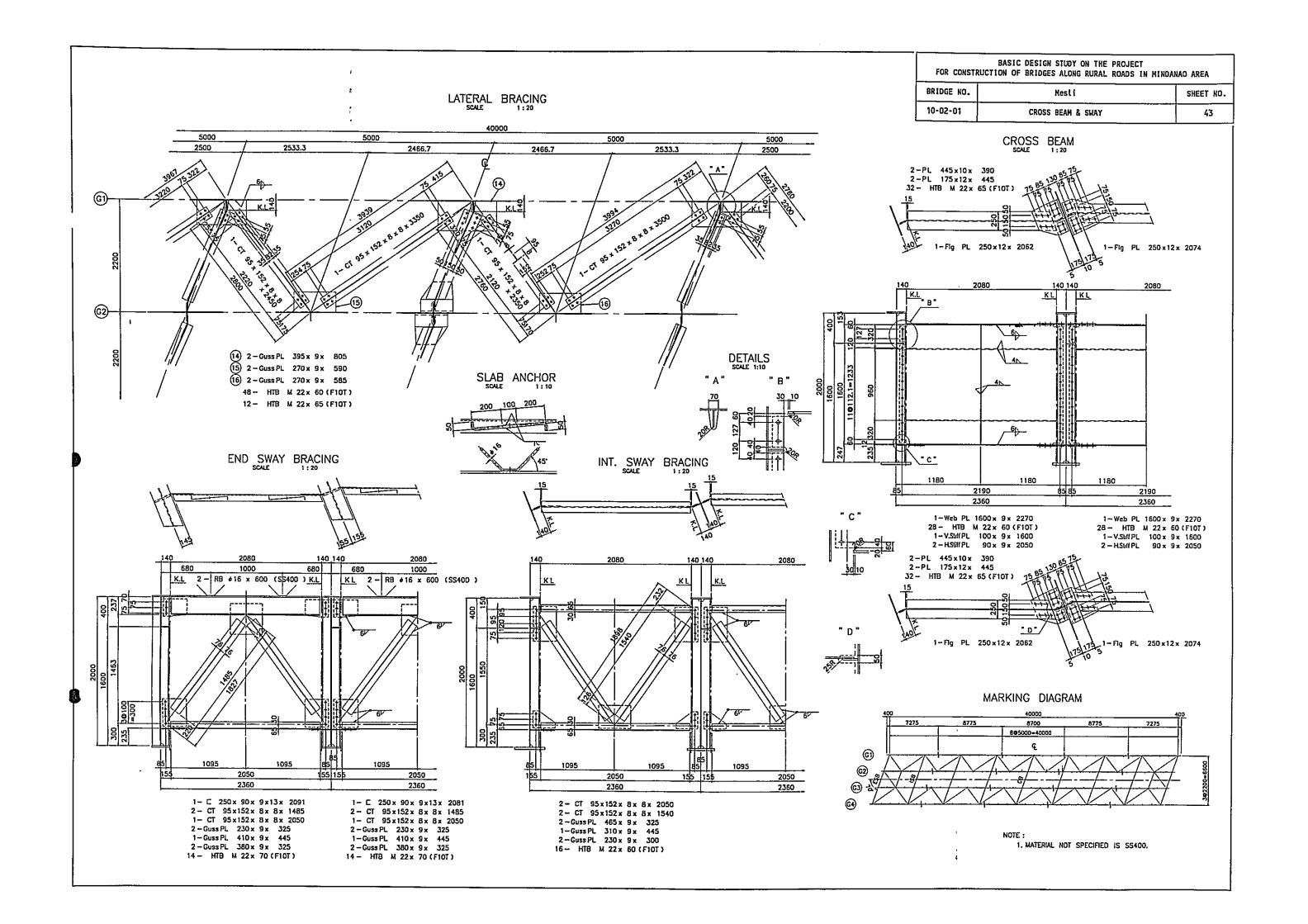
AS DETAILED INFORMATION FOR SUBSTRUCTURES ARE NOT PROVIDED,
DECIDED TYPE AND DIMENSION OF SUBSTRUCTURES WILL BE SPECIFIED
IN SUBSTRUCTURE'S DRAWING.

5. DRAWING

ALL DIMENSIONS ARE EXPRESSED IN MILLIMETER UNLESS OTHERWISE SHOWN PLANS ALL ELEVATION ARE IN METERS.

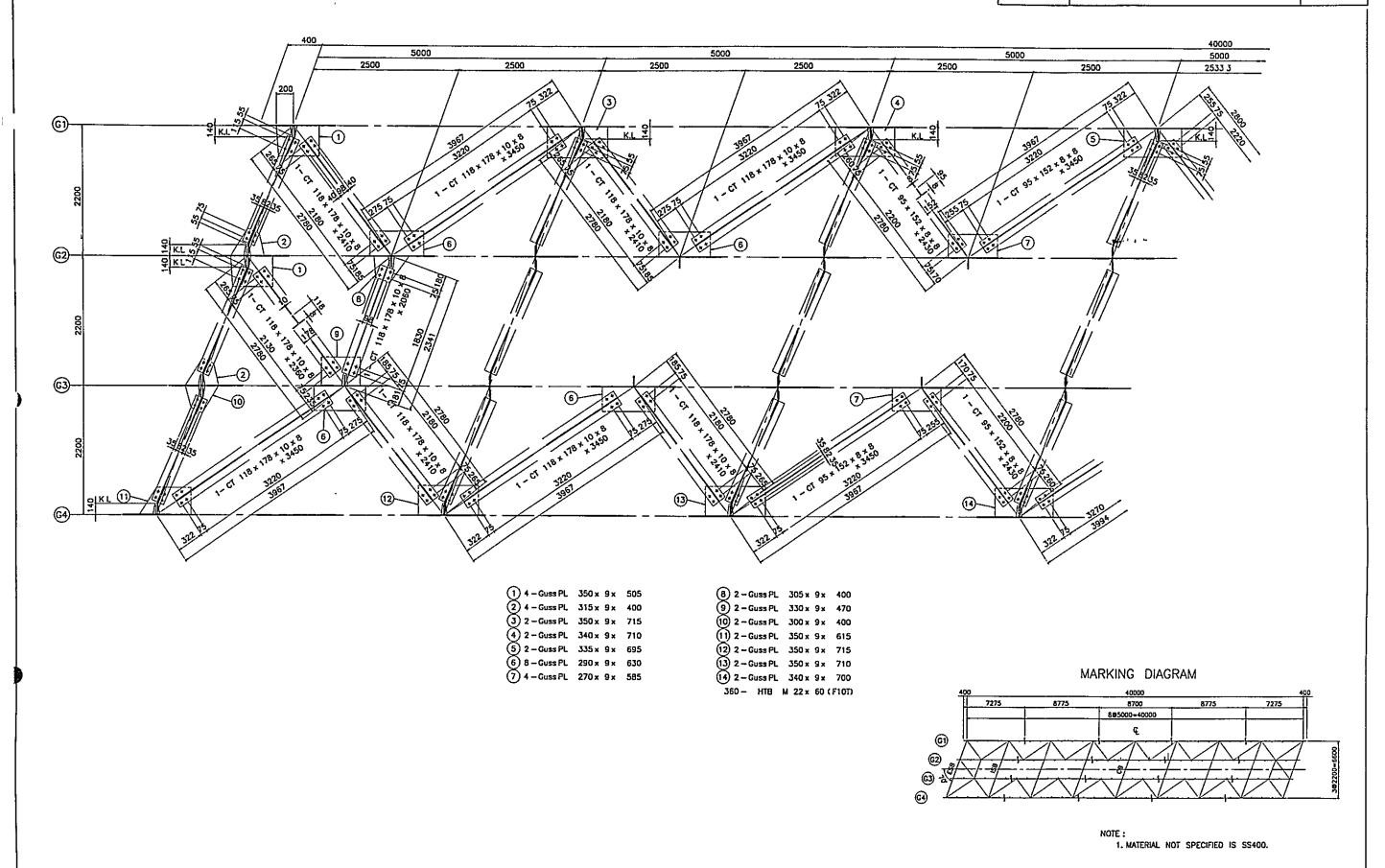




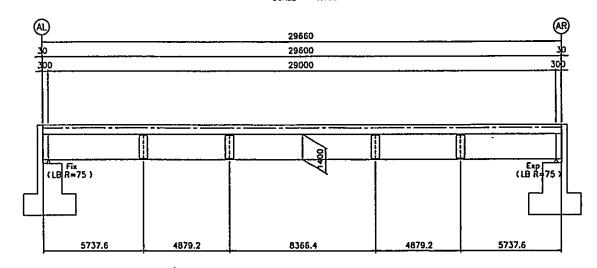


LATERAL BRACING

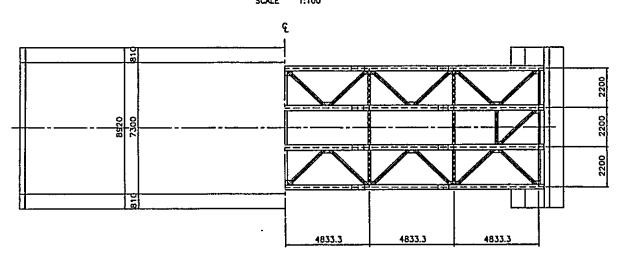
FOR CONSTI	IAO AREA	
BRIDGE NO.	Mesli	SHEET NO.
10-03-01	LATERAL BRACING	44



#### GENERAL ELEVATION SCALE 1:100



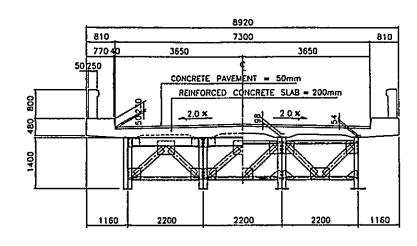
#### GENERAL PLAN SCALE 1:100



#### BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA

BRIDGE NO.	Silae	SHEET NO.
10-03-09	GENERAL VIEW	45

#### . SUPERSTRUCTURE CROSS SECTION SCALE 1:50



1. DESIGN SPECIFICATION

AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (15th EDITION 1992).

2. DESIGN LOAD

CONCRETE Z.1 DEAD LOAD: 23.54 KN/m<sup>3</sup> CONCRETE PAVEMENT 23.54 KN/m³
ROADWAY LIVE LOAD HS 20-44
SIDEWALK LIVE LOAD 2.873 KN/m³ 2.2 LIVE LOAD :

2.3 TEMPERATURE CHANGE:

RISE +20" . FALL -20"

2.4 EARTHQUAKE LOAD:

C=0.20 WITH REFERENCE TO RELEVANT AASHTO PROVISIONS AND

APPLICABLE CODE. 2.5 OTHER LOADS: IN ACCORDANCE WITH 1992 AASHTO SPECIFICATION.

J. MATERIALS

3.1 STEEL FOR SUPERSTRUCTURE:

PRESTRUCTORE:

STEEL SHALL BE SPECIFIED BY JIS GRADE.

CONCRETE FOR SUPERSTRUCTURE (c'=(CLASS A) (c=280kg/cm<sup>2</sup>

CONCRETE FOR SUBSTRUCTURE (c'=(CLASS A) (c=280kg/cm<sup>2</sup>

OTHER MATERIALS SHALL CONFORM TO JIS. 3.2 CONCRETE:

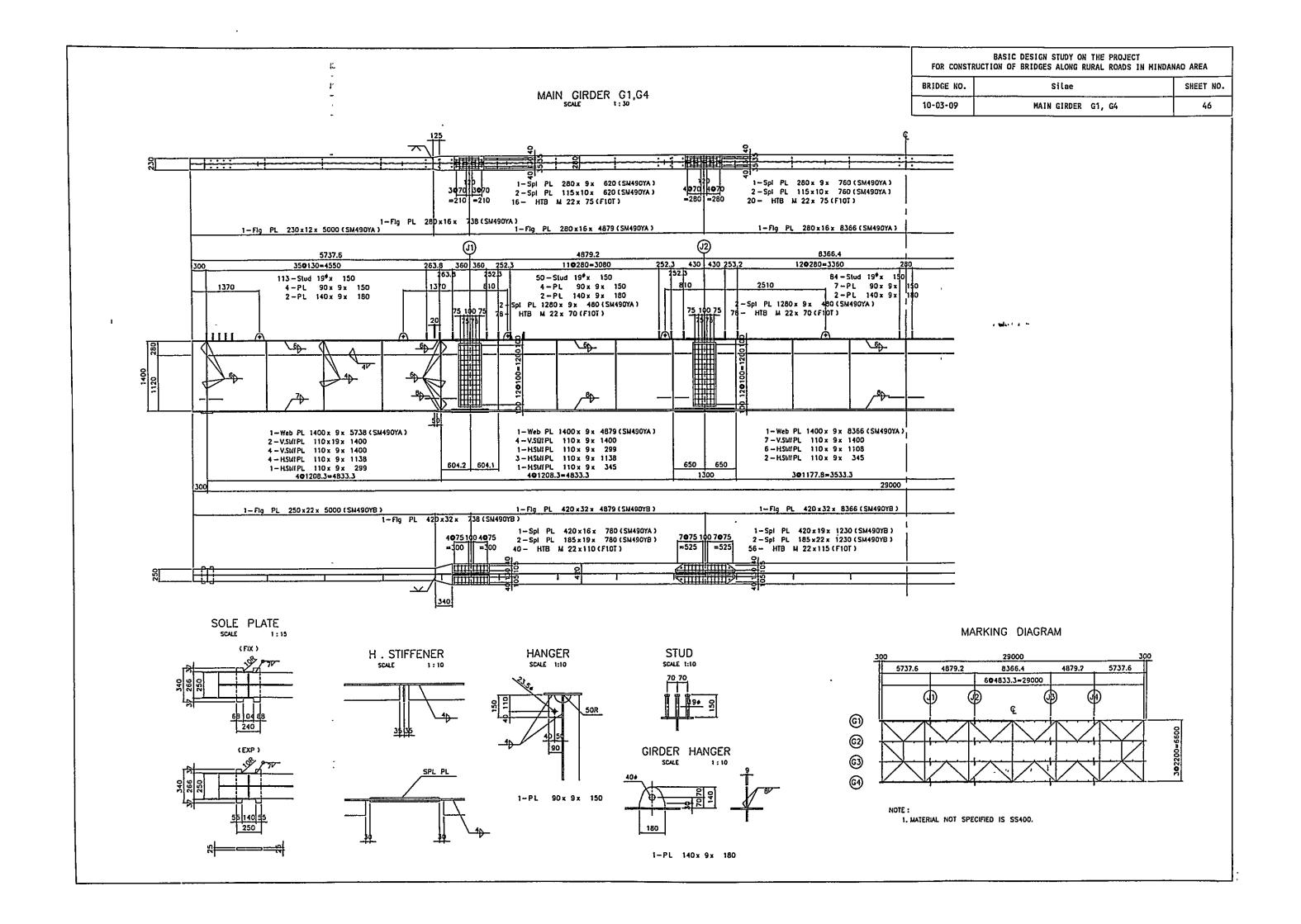
3.3 OTHERS : 4. SUBSTRUCTURE

AS DETAILED INFORMATION FOR SUBSTRUCTURES ARE NOT PROVIDED. DECIDED TYPE AND DIMENSION OF SUBSTRUCTURES WILL BE SPECIFIED IN SUBSTRUCTURE'S DRAWING.

5. DRAWING

ALL DIMENSIONS ARE EXPRESSED IN MILLIMETER UNLESS OTHERWISE SHOWN PLANS ALL ELEVATION ARE IN METERS.

 $(\cdot,\cdot,\cdot) = (r-1)$ 

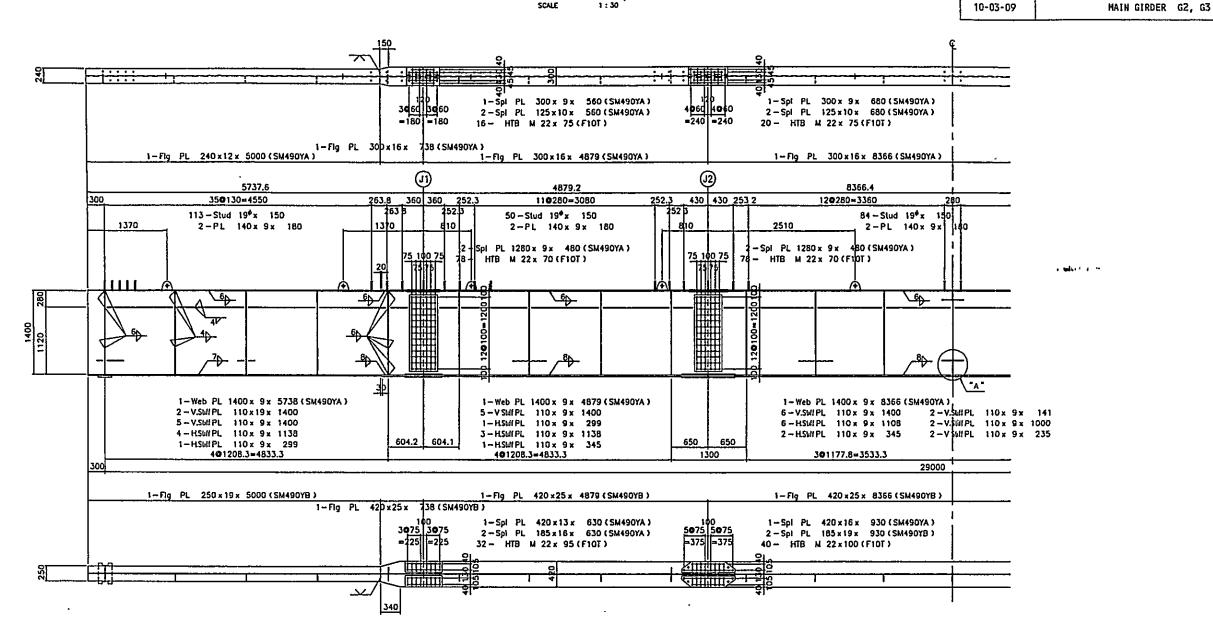


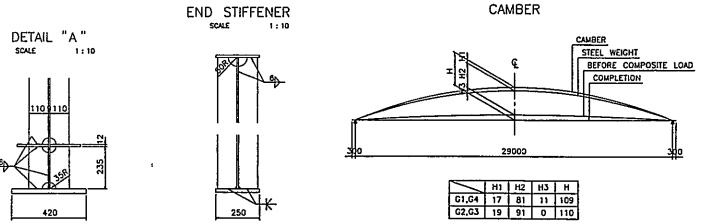
BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA

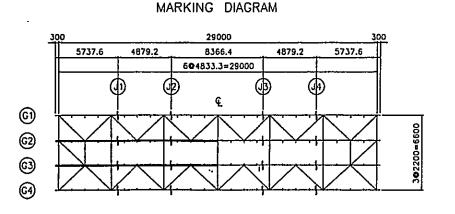
BRIDGE NO. Silbe SHEET NO.

47

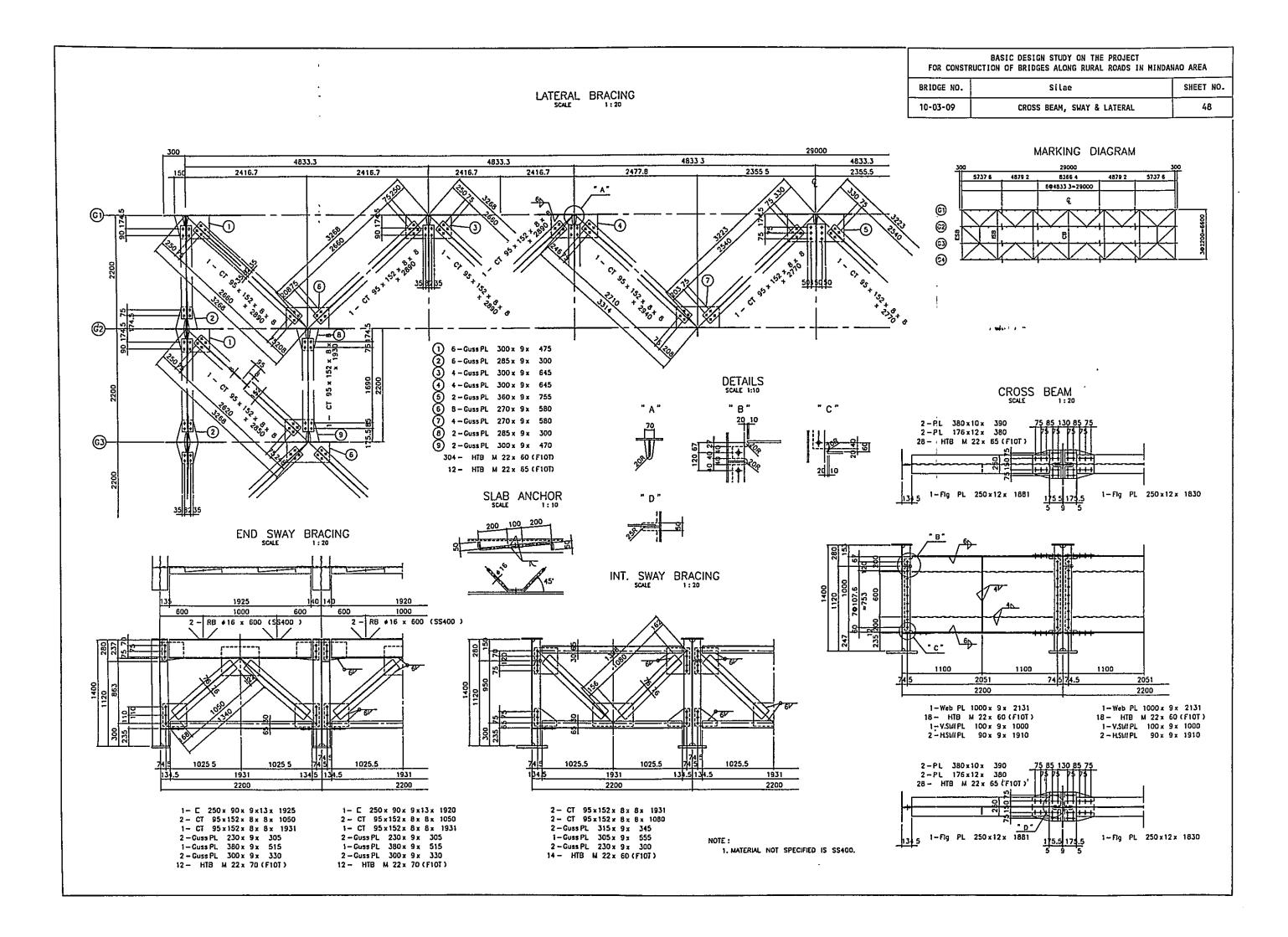
MAIN GIRDER G2,G3



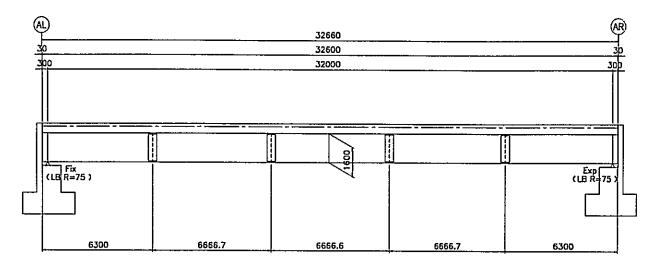




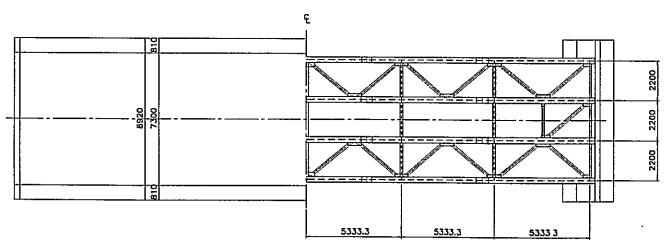
NOTE: 1. MATERIAL NOT SPECIFIED IS S\$400.



#### GENERAL ELEVATION SCALE 1:100



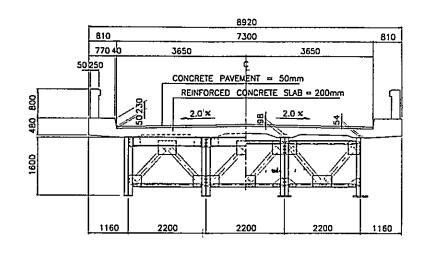
GENERAL PLAN SCALE 1:100



#### BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA

BRIDGE NO.	Pagtilaan, Pangyan	SHEET NO.
11-01-02 11-06-03	GENERAL VIEW	49

#### SUPERSTRUCTURE CROSS SECTION SCALE 1:50



1. DESIGN SPECIFICATION
AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (15th EDITION 1992). 2. DESIGN LOAD

2.1 DEAD LOAD: CONCRETE

CONCRETE PAVEMENT 23.54 KN/m3 ROADWAY LIVE LOAD HS 20-44

2.2 LIVE LOAD: SIDEWALK LIVE LOAD 2.873 KN/m3

2.3 TEMPERATURE CHANGE:

RISE +20" . FALL -20"

2.4 EARTHQUAKE LOAD:

C=0.20 WITH REFERENCE TO RELEVANT AASHTO PROVISIONS AND

23 54 KN/m3

APPLICABLE CODE.

2.5 OTHER LOADS: IN ACCORDANCE WITH 1992 AASHTO SPECIFICATION.

J. MATERIALS

3.1 STEEL FOR SUPERSTRUCTURE :

STEEL SHALL BE SPECIFIED BY JIS GRADE. 3.2 CONCRETE:

CONCRETE FOR SUPERSTRUCTURE (c'=(CLASS A) fc=280kg/cm²
CONCRETE FOR SUBSTRUCTURE (c'=(CLASS A) fc=280kg/cm²
OTHER MATERIALS SHALL CONFORM TO JIS.

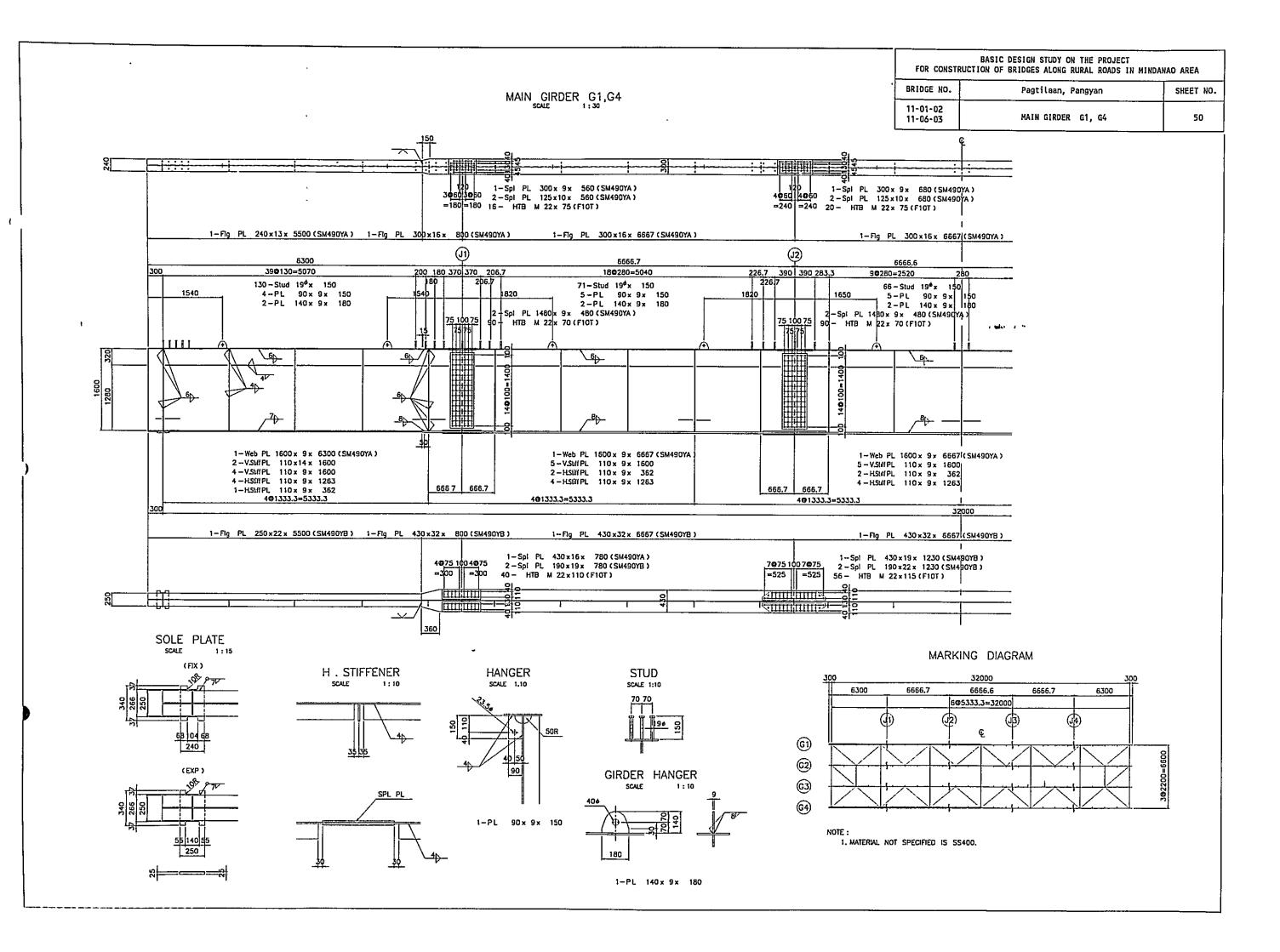
. , 1

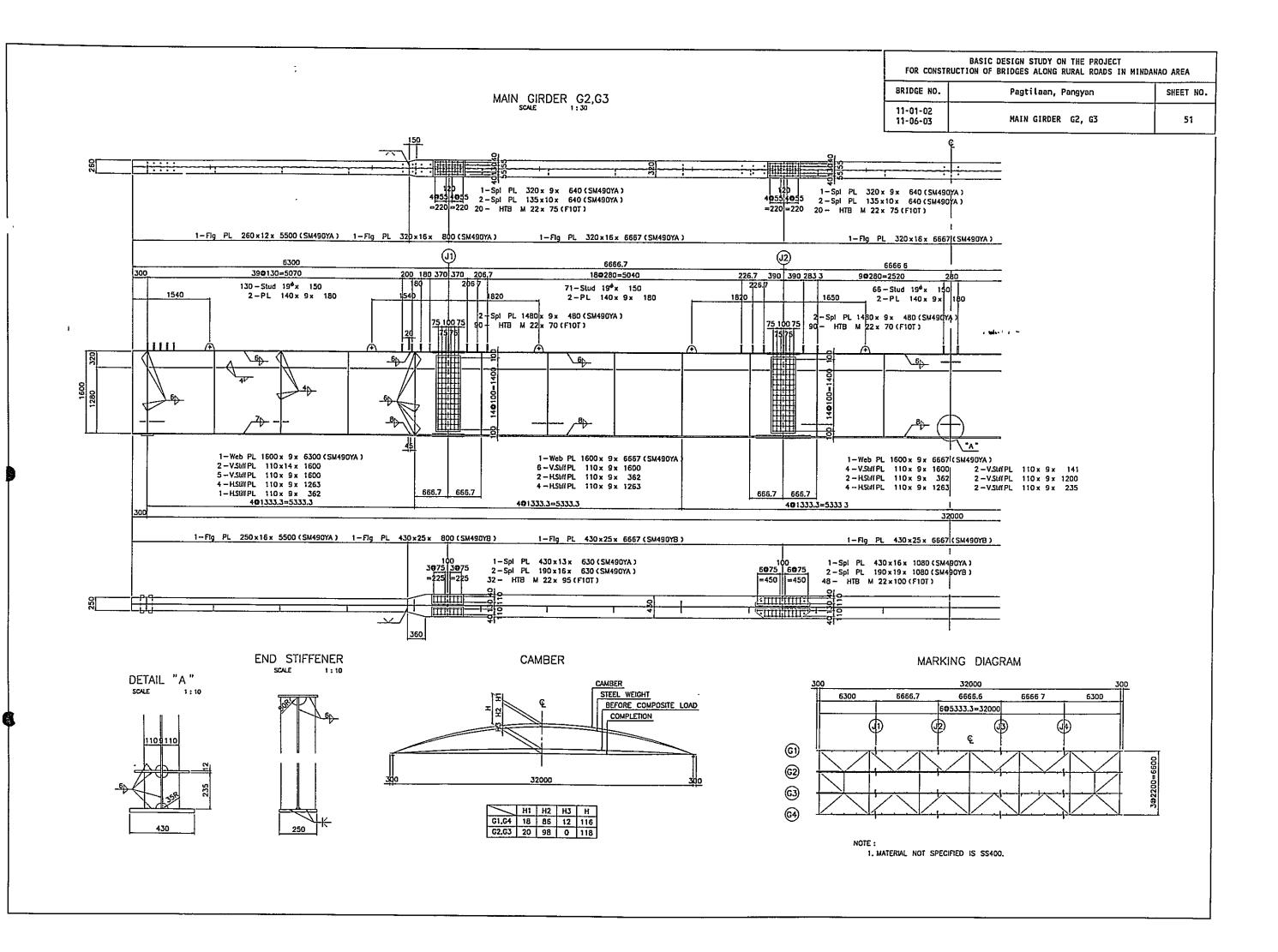
4. SUBSTRUCTURE

AS DETAILED INFORMATION FOR SUBSTRUCTURES ARE NOT PROVIDED, DECIDED TYPE AND DIMENSION OF SUBSTRUCTURES WILL BE SPECIFIED

IN SUBSTRUCTURE'S DRAWING.

ALL DIMENSIONS ARE EXPRESSED IN MILLIMETER UNLESS OTHERWISE SHOWN PLANS ALL ELEVATION ARE IN METERS



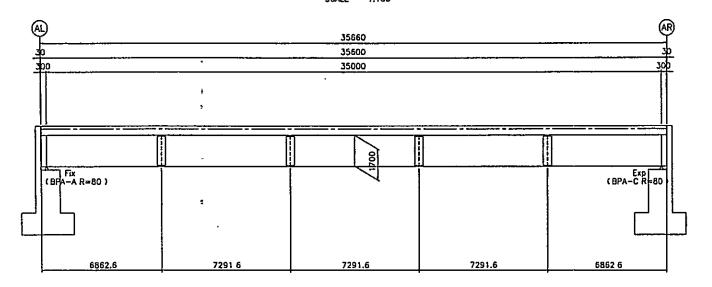


BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA BRIDGE NO. Pagtilaan, Pangyan SHEET NO. LATERAL BRACING 11-01-02 CROSS BEAM, SWAY & LATERAL 52 11-06-03 5333.3 5333 3 53333 2666.7 2666.7 2666.7 2665,7 2666.7 2656.7 SLAB ANCHOR 6 4 - Guss PL 290 x 9 x 655 (7) 8 - Guss PL 270 x 9x 615 1) 6 - Guss PL 295 x 9 x 485 2 6 - Guss PL 290 x 9 x 300 8 2 - Guss PL 290 x 9 x 300 CROSS BEAM 3 4 - Guss PL 295 x 9 x 650 (9) 2 - Guss PL 300 x 9 x 495 DETAILS SCALE 1:10 4 4 - Guss PL 290 x 9 x 630 304- HTB M 22x 60 (F10T) (5) 2 - Guss PL 325 x 9 x 750 8- HTB M 22x 65 (F10T) 2-PL 380×10× 390 2-PL 176×12× 380 **(3)** MARKING DIAGRAM 28- HTB M 22x 65 (F10T) 32000 66667 5666 B 66687 605333.3=3200 1-Fig PL 250×12× 1881 1-Fig PL 250×12× 1830 **©**2 END SWAY BRACING **©** INT. SWAY BRACING 1900 600 600 600 1000 1000 2 - RB 616 x 600 (55400 ) 2 - RB \$16 x 600 (SS400 ) 2051 74 5 74.5 2200 2200 1-Web:PL 1200x 9x 2131 1-Web PL 1200 x 9x 2131 20 - HIB M 22 x 60 (F10T) 20 - HTB M 22x 60 (F10T) 1-V.StiftPL 100 x 9 x 1200 1-V.SWIPL 100 x 9 x 1200 2-HSWPL 90x 9x 1910 2-HStill PL 90x 9x 1910 2-PL 380x10x 390 1025.5 1025.5 1025 5 1025.5 1025.5 1025.5 2-PL 176×12× 380 1931 1931 1931 1931 28- HTB M 22x 65 (F10T) 2200 2200 2200 1- C 250 x 90 x 9x13 x 1910 2- CT 95x152 x 8x 8x 1210 1- CT 95x152 x 8x 8x 1931 1- C 250x 90x 9x13x 1900 2- CT 95x152x 8x 8x 1210 1- CT 95x152x 8x 8x 1931 2- CT 95x152x 8x 8x 1931 2- CT 95x152x 8x 8x 1230 2-Guss PL 385 x 9 x 315 1-Guss PL 305 x 9 x 495 2-Guss PL 230 x 9 x 300 2 - Guss PL 230 x 9 x 315 1- Guss PL 385 x 9 x 460 2-Guss PL 230 x 9x 315 1-Fig 1PL 250x12x 1881 1-Fig PL 250×12× 1830 1-Guss PL 385 x 9 x 460 1. MATERIAL NOT SPECIFIED 'IS \$\$400. 2 - Guss PL 320 x 9x 315 2 - Guss PL 320 x 9x 315 14 - HTB M 22 x 60 (F10T) 14 - HTB M 22 x 65 (F10T) 14- HTB M 22x 65 (F10T)

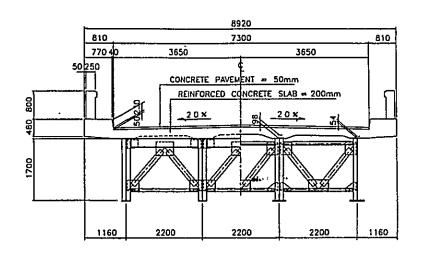
		DESIGN :				-			
FOR CONSTR	RUCTION OF	BRIDGES	ALONG F	RURAL	ROADS	IN	MINDAN	AO AREA	ı
BRIDGE NO.			Union					SHEET	N

BRIDGE NO.	Union	SHEET NO.
11-01-05	GENERAL VIEW	53

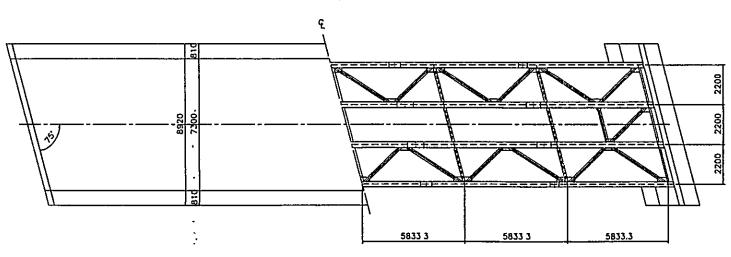
#### GENERAL ELEVATION SCALE 1:100



#### SUPERSTRUCTURE CROSS SECTION SCALE 1:50



#### GENERAL PLAN SCALE 1:100



1. DESIGN SPECIFICATION AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (15th EDITION 1992).

2. DESIGN LOAD 2.1 DEAD LOAD: CONCRETE PAVEMENT 23.54 KN/m³
CONCRETE PAVEMENT 23.54 KN/m³
ROADWAY LIVE LOAD HS 20~44
SIDEWALK LIVE LOAD 2.873 KN/m³ 2.2 LIVE LOAD:

2.3 TEMPERATURE CHANGE:

RISE +20' . FALL -20'

2.4 EARTHQUAKE LOAD:

C=0 20 WITH REFERENCE TO RELEVANT AASHTO PROVISIONS AND

APPLICABLE CODE.
2.5 OTHER LOADS: IN ACCORDANCE WITH 1992 AASHTO SPECIFICATION. 3. MATERIALS

ATERIALS

3.1 STEEL FOR SUPERSTRUCTURE:

STEEL SHALL BE SPECIFIED BY JIS GRADE.

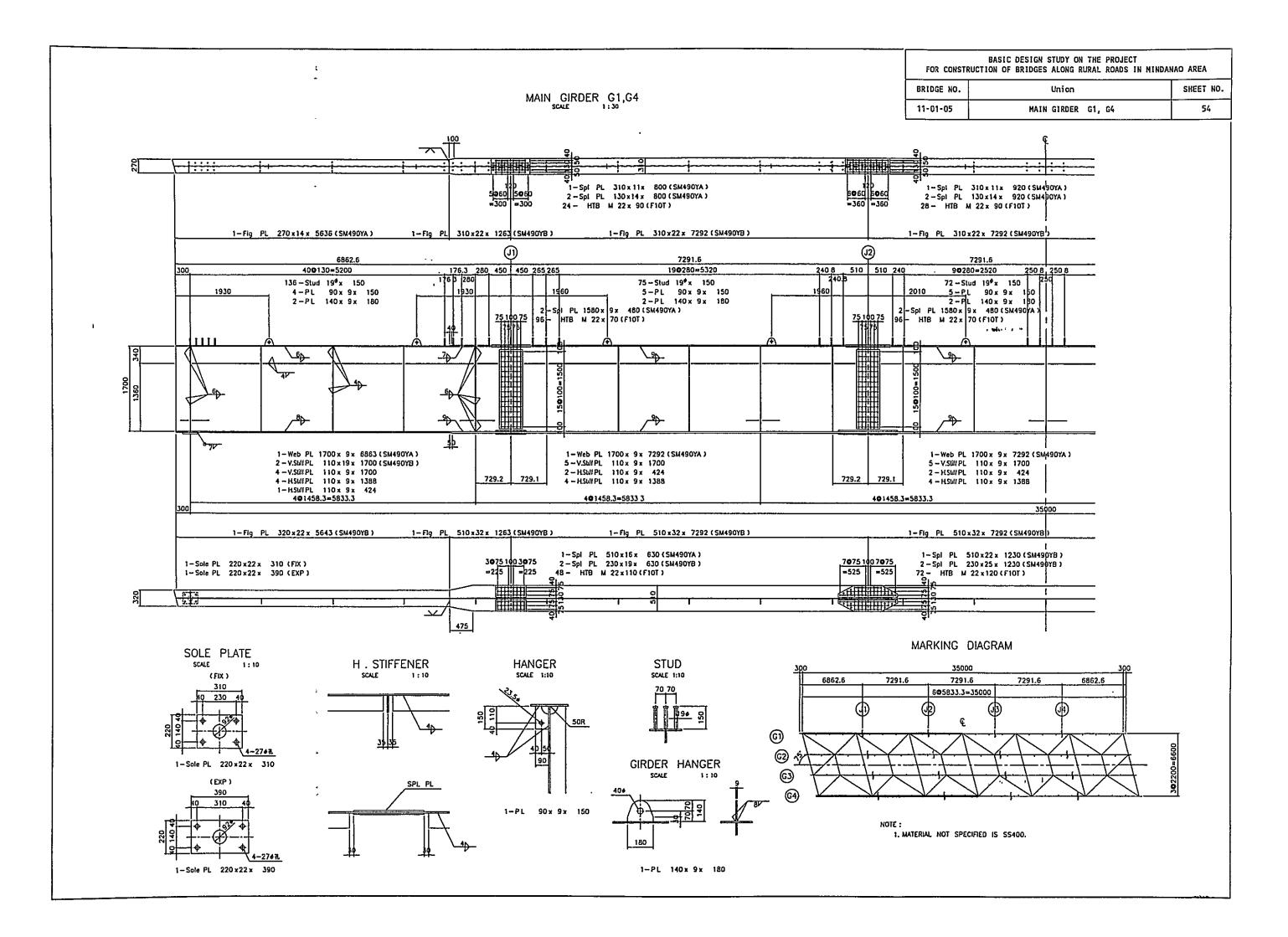
3.2 CONCRETE: CONCRETE FOR SUPERSTRUCTURE (c'=(CLASS A) (c=280kg/cm² CONCRETE FOR SUBSTRUCTURE (c'=(CLASS A) (c'=280kg/cm² CONCRETE FOR SUBSTRUCTURE

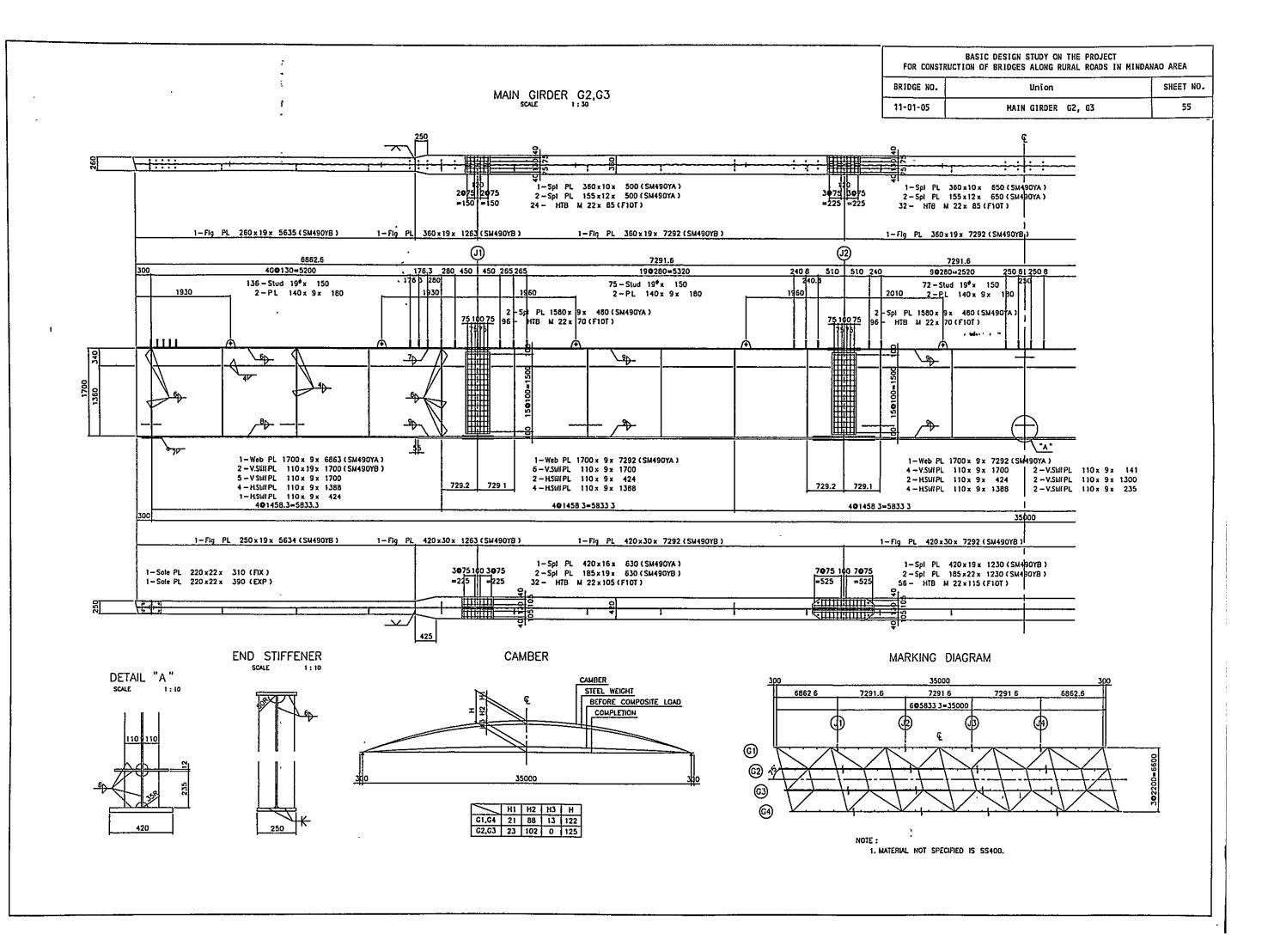
33 OTHERS: OTHER MATERIALS SHALL CONFORM TO JIS.

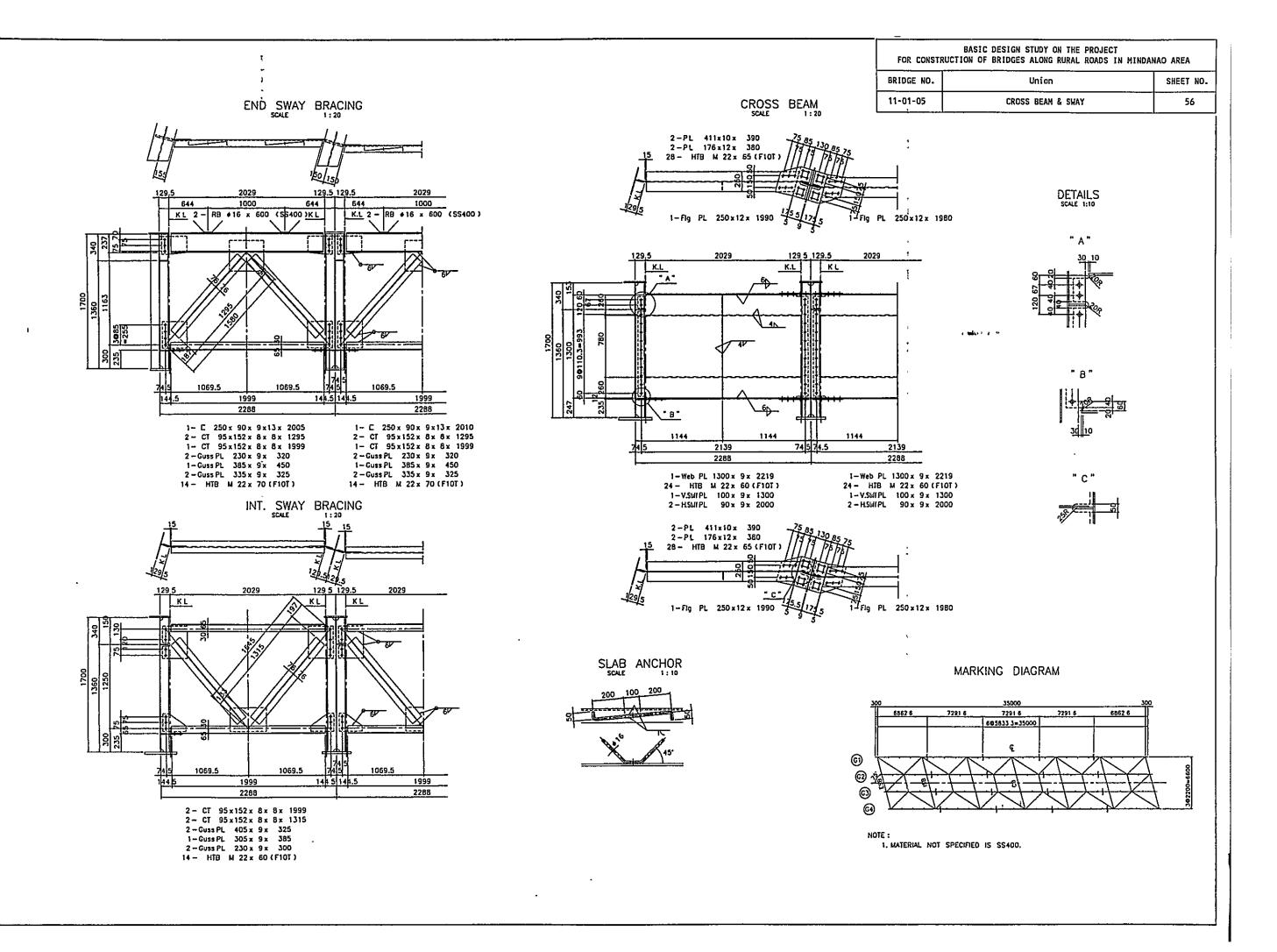
4. SUBSTRUCTURE

AS DETAILED INFORMATION FOR SUBSTRUCTURES ARE NOT PROVIDED, DECIDED TYPE AND DIMENSION OF SUBSTRUCTURES WILL BE SPECIFIED IN SUBSTRUCTURE'S DRAWING.

ALL DIMENSIONS ARE EXPRESSED IN MILLIMETER UNLESS OTHERWISE SHOWN PLANS ALL ELEVATION ARE IN METERS.





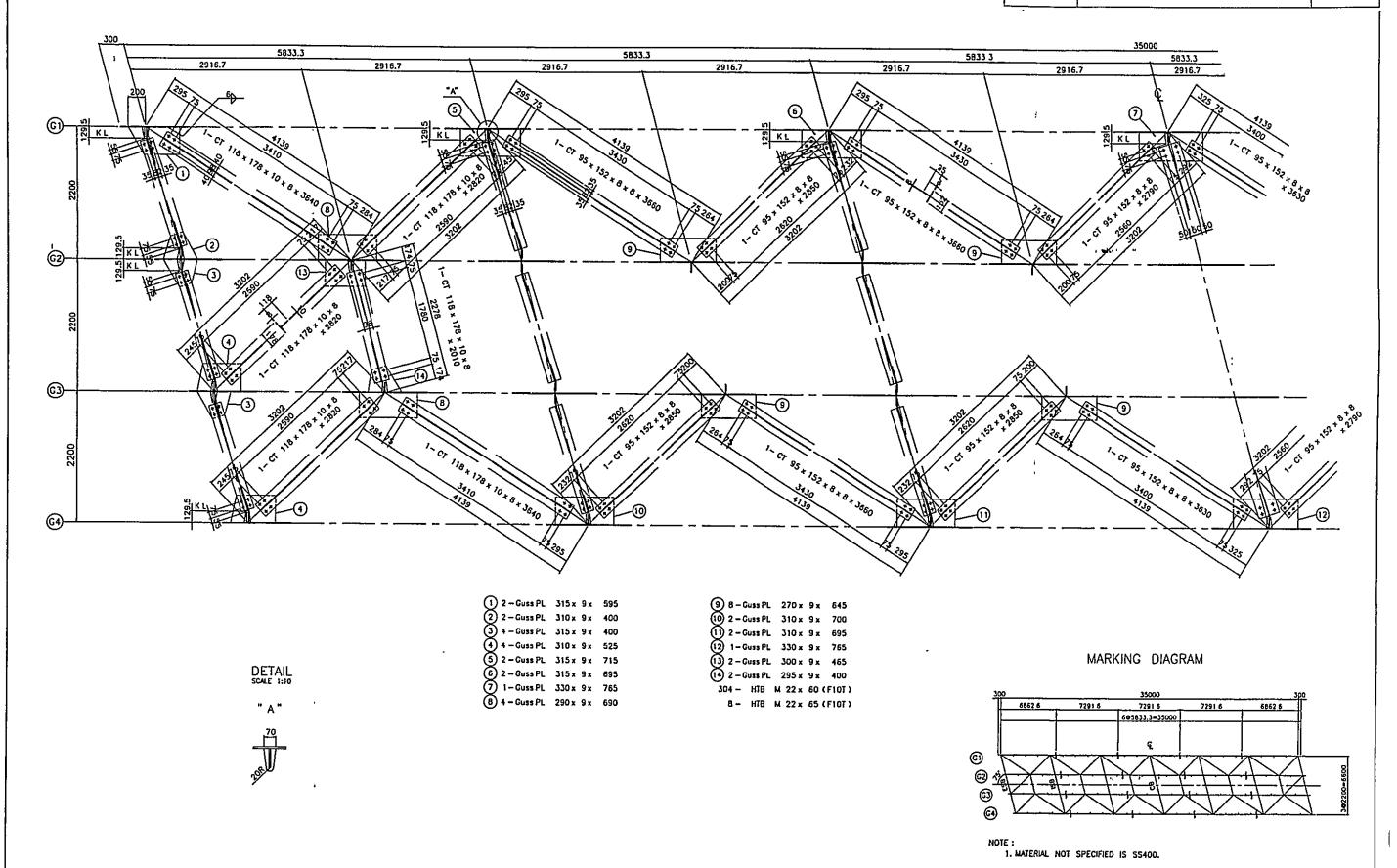


LATERAL BRACING

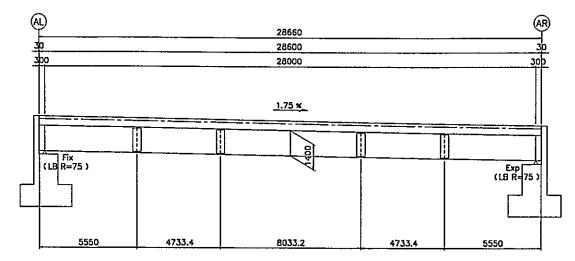
BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA

BRIDGE NO. Union SHEET NO.

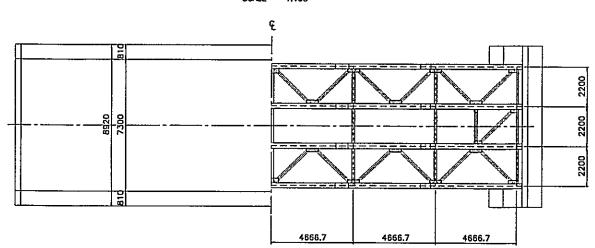
11-01-05 LATERAL BRACING 57



#### GENERAL ELEVATION SCALE 1:100



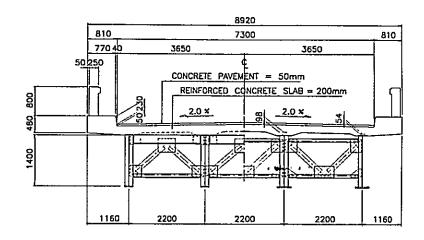
#### GENERAL PLAN SCALE 1:100



## BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA

BRIDGE NO.	Tagasaka	SHEET NO.
11-01-06	GENERAL VIEW	58

#### SUPERSTRUCTURE CROSS SECTION SCALE 1:50



1. DESIGN SPECIFICATION

AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (15th EDITION 1992).

2. DESIGN LOAD

2.1 DEAD LOAD: CONCRETE 23.54 KN/m³
CONCRETE PAVEMENT 23.54 KN/m³
2.2 LIVE LOAD: ROADWAY LIVE LOAD HS 20-44
SIDEWALK LIVE LOAD 2.873 KN/m³

2.3 TEMPERATURE CHANGE:

RISE +20' . FALL -20'

2.4 EARTHQUAKE LOAD:

C=0 20 WITH REFERENCE TO RELEVANT AASHTO PROVISIONS AND APPLICABLE CODE.

2.5 OTHER LOADS: IN ACCORDANCE WITH 1992 AASHTO SPECIFICATION.

3. MATERIALS

3.1 STEEL FOR SUPERSTRUCTURE:

STEEL SHALL BE SPECIFIED BY JIS GRADE.

3.2 CONCRETE: CONCRETE FOR SUPERSTRUCTURE fe'=(CLASS A) fe=280kg/cm²

CONCRETE FOR SUBSTRUCTURE fe'=(CLASS A) fe=280kg/cm²

OTHER MATERIALS SHALL CONFORM TO JIS.

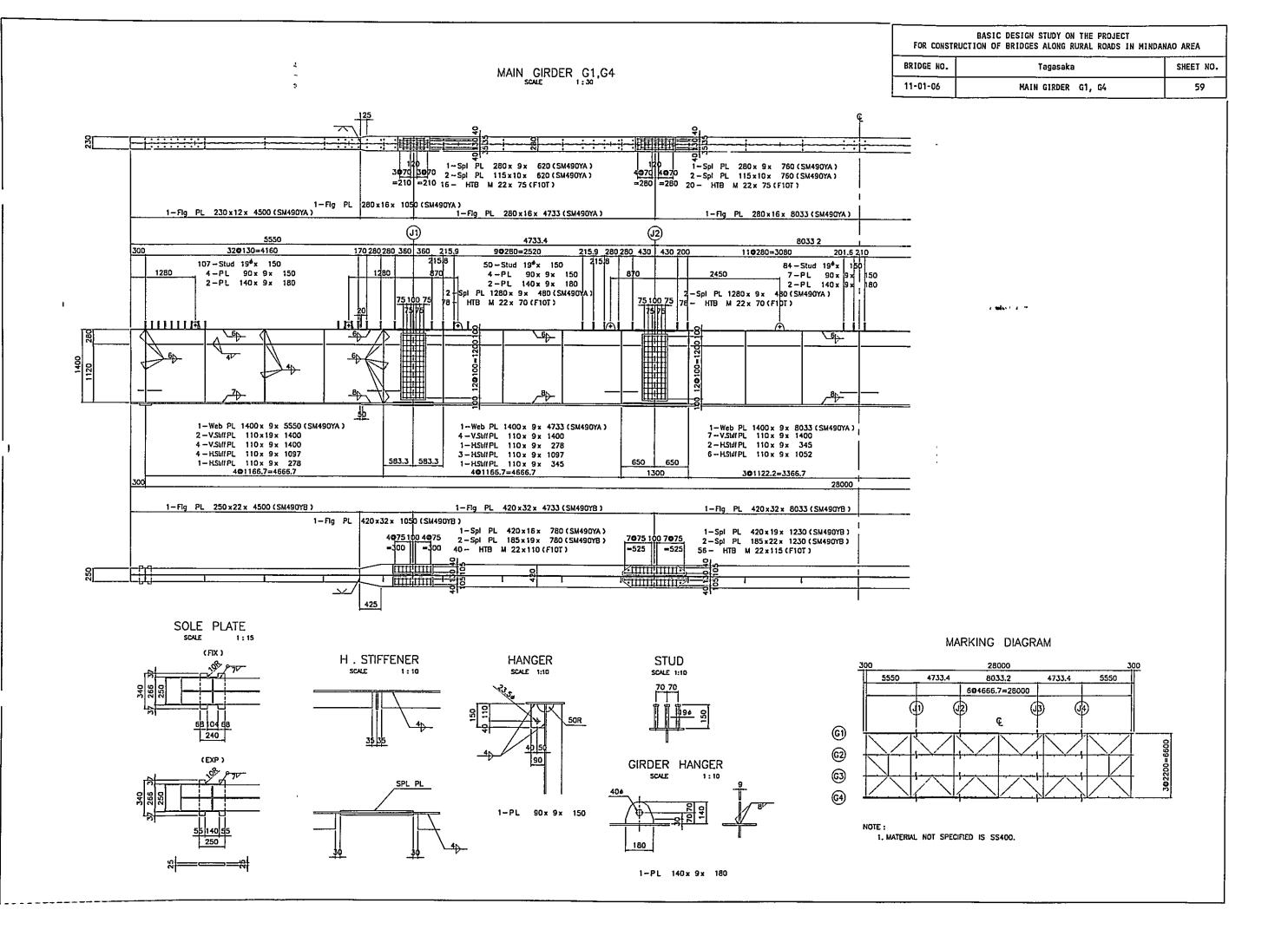
4. SUBSTRUCTURE

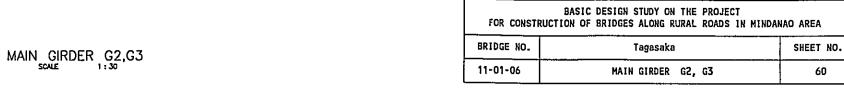
AS DETAILED INFORMATION FOR SUBSTRUCTURES ARE NOT PROVIDED. DECIDED TYPE AND DIMENSION OF SUBSTRUCTURES WILL BE SPECIFIED

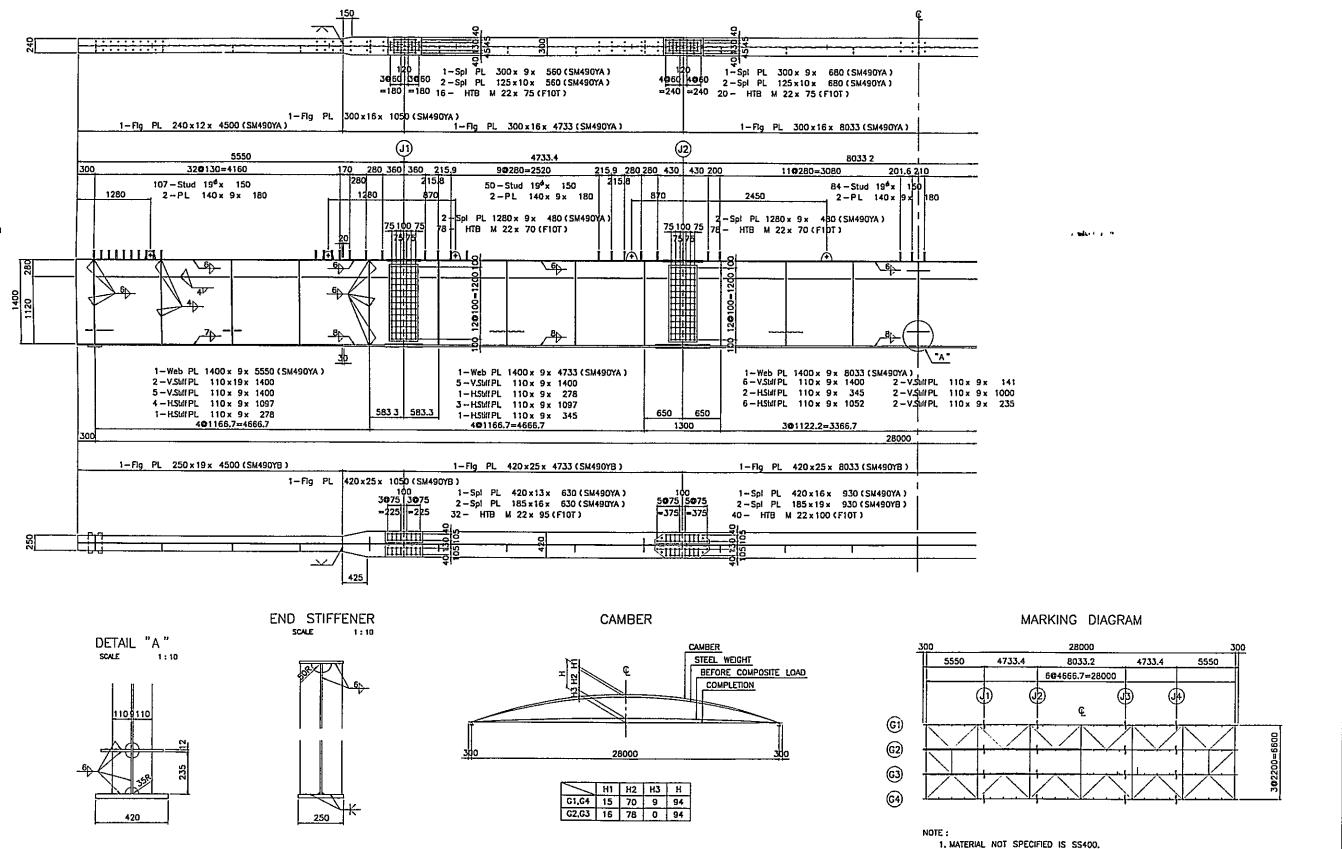
IN SUBSTRUCTURE'S DRAWING.

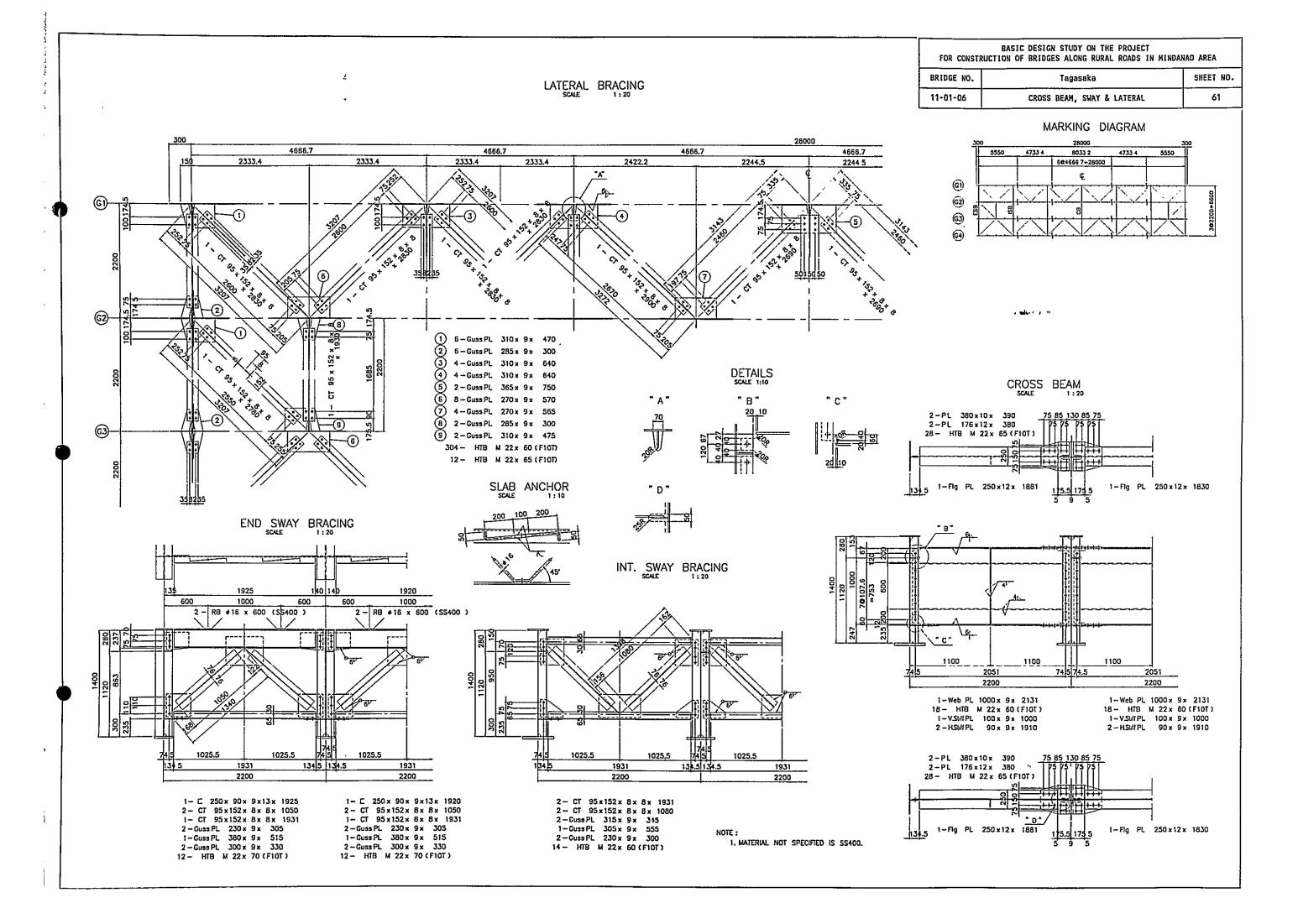
5. DRAWING

ALL DIMENSIONS ARE EXPRESSED IN MILLIMETER UNLESS OTHERWISE SHOWN PLANS ALL ELEVATION ARE IN METERS.

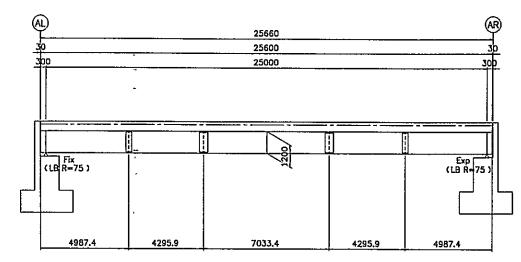




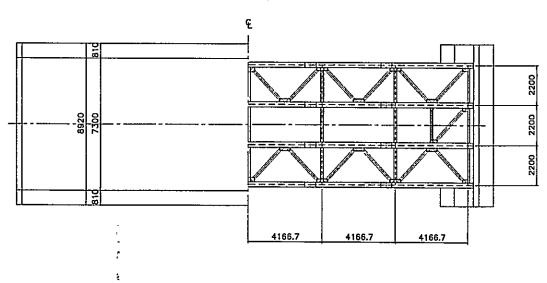




#### GENERAL ELEVATION SCALE 1:100

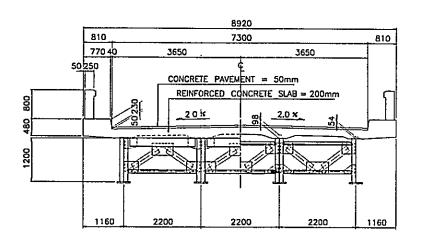


#### GENERAL PLAN SCALE 1:100



#### BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA BRIDGE NO. Licop SHEET NO. 11-03-02 GENERAL VIEW 62

#### SUPERSTRUCTURE CROSS SECTION SCALE 1:50



DESIGN SPECIFICATION
 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (15th EDITION 1992).
 DESIGN LOAD

2.1 DEAD LOAD: CONCRETE CONCRETE PAVEMENT 23.54 KN/m³ 23.54 KN/m³

2.2 LIVE LOAD: ROADWAY LIVE LOAD HS 20-44

SIDEWALK LIVE LOAD 2.873 KN/m3

2.3 TEMPERATURE CHANGE:

RISE +20" . FALL -20"

2.4 EARTHQUAKE LOAD:

C=0.20 WITH REFERENCE TO RELEVANT AASHTO PROVISIONS AND

C=0.20 WITH REFERENCE TO RELEVANT AASHTO PROVISIONS AND APPLICABLE CODE.

2.5 OTHER LOADS: IN ACCORDANCE WITH 1992 AASHTO SPECIFICATION.

3. MATERIALS

3.1 STEEL FOR SUPERSTRUCTURE:

STEEL SHALL BE SPECIFIED BY JIS GRADE.

3.2 CONCRETE: CONCRETE FOR SUPERSTRUCTURE fc'=(CLASS A) fc=280kg/cm²

CONCRETE FOR SUBSTRUCTURE fc'=(CLASS A) fc=280kg/cm²

3.3 OTHERS: OTHER MATERIALS SHALL CONFORM TO JIS.

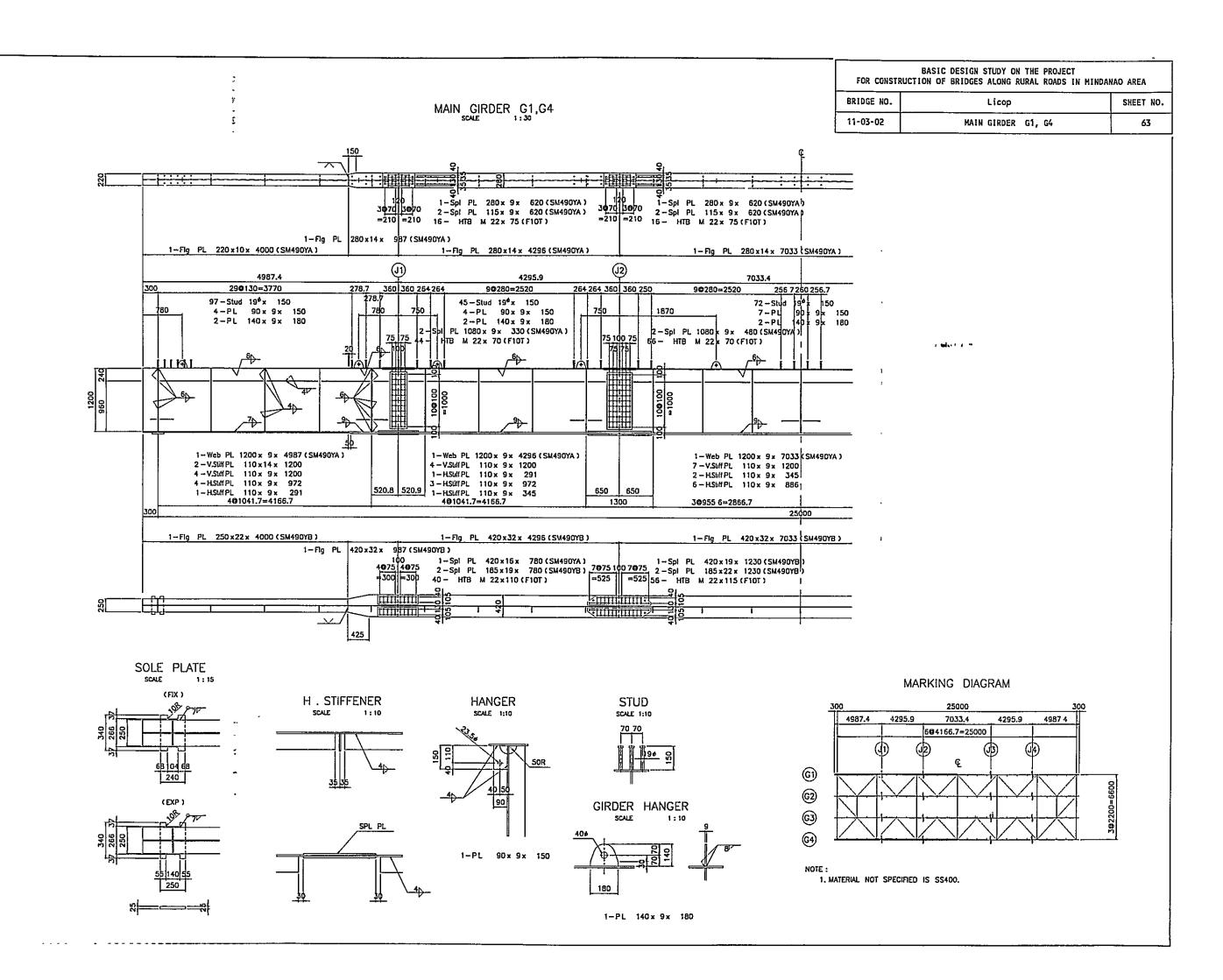
4. SUBSTRUCTURE

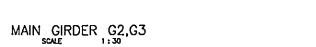
AS DETAILED INFORMATION FOR SUBSTRUCTURES ARE NOT PROVIDED, DECIDED TYPE AND DIMENSION OF SUBSTRUCTURES WILL BE SPECIFIED

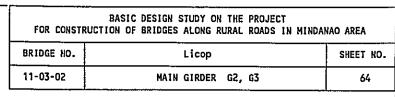
IN SUBSTRUCTURE'S DRAWING.

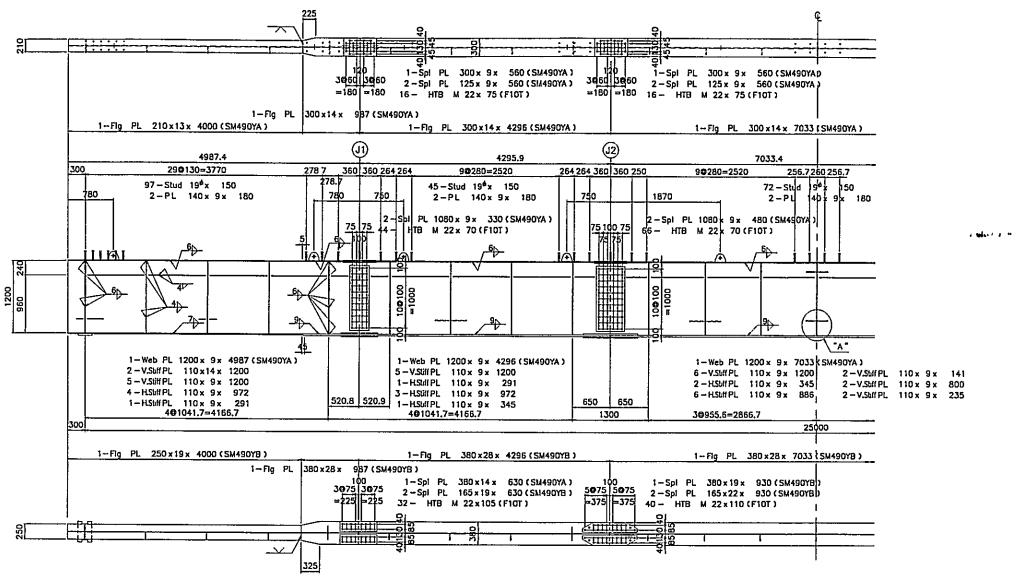
5. DRAWING ALL DIMENSIONS ARE EXPRESSED IN MILLIMETER UNLESS OTHERWISE SHOWN PLANS ALL ELEVATION ARE IN METERS.

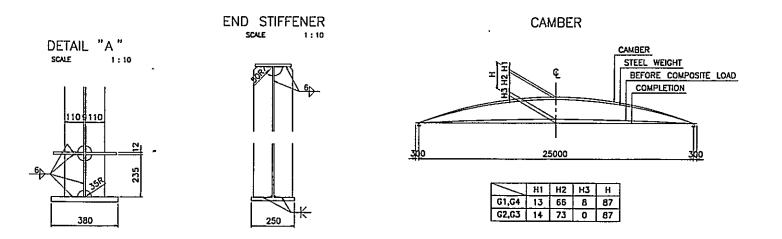
 $(j_1,j_2,\ldots,j_{n-1})$ 

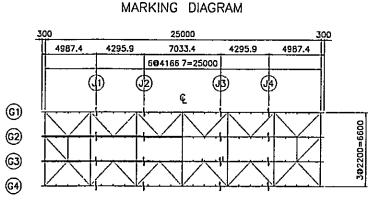




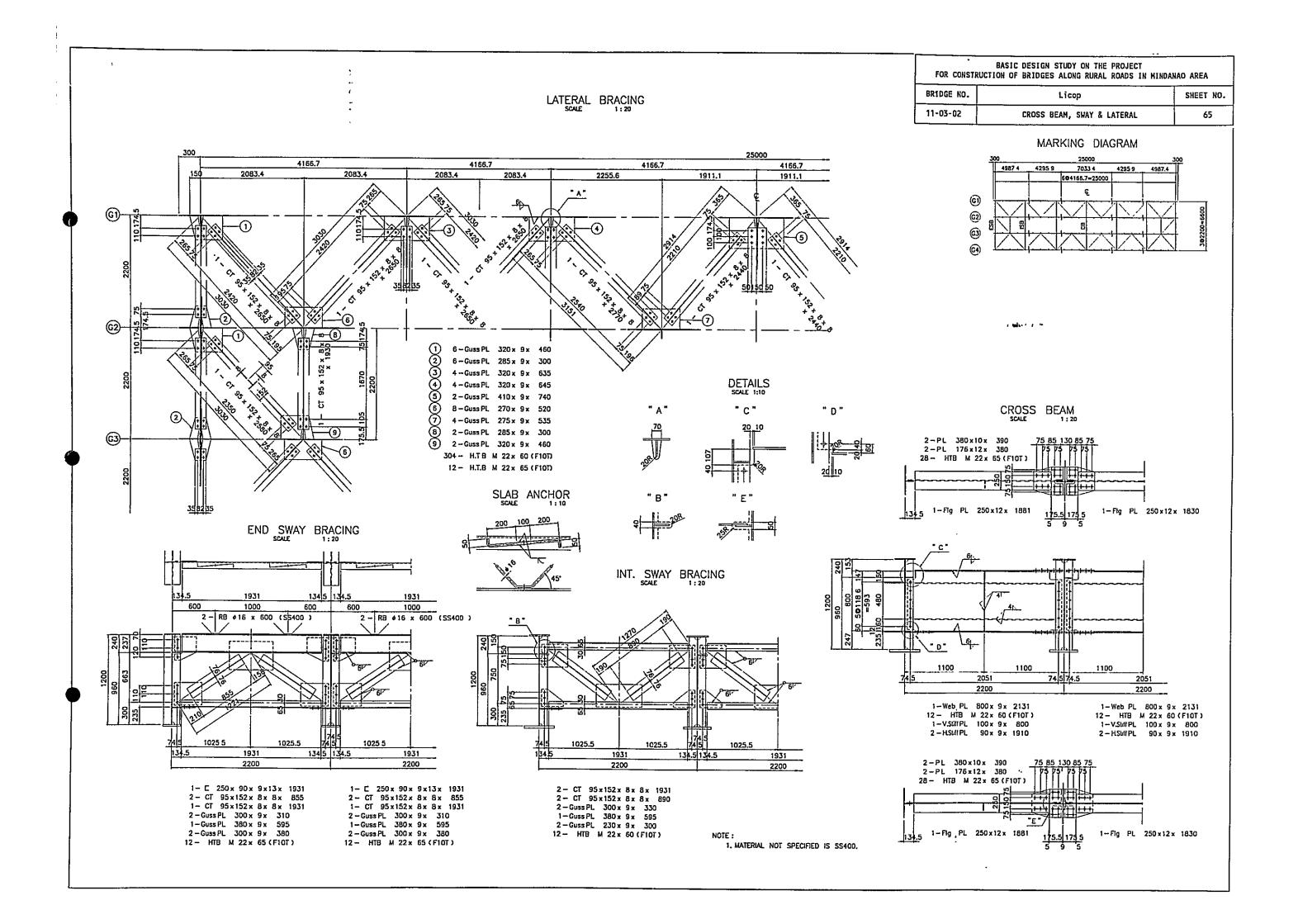








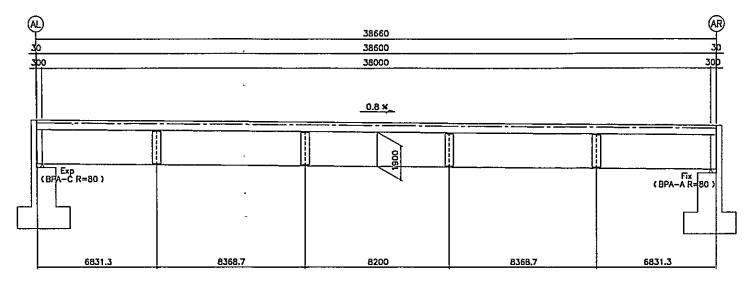
NOTE:
1. MATERIAL NOT SPECIFIED IS \$\$400.



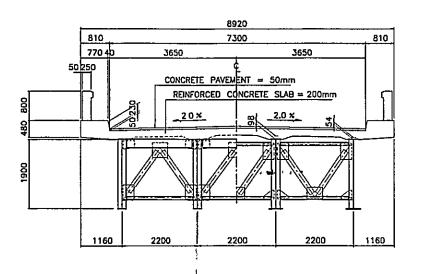
#### GENERAL VIEW

FOR CONSTI	BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA						
BRIDGE NO.	Los Amigos	SHEET NO.					
11-05-02	GENERAL VIEW	66					

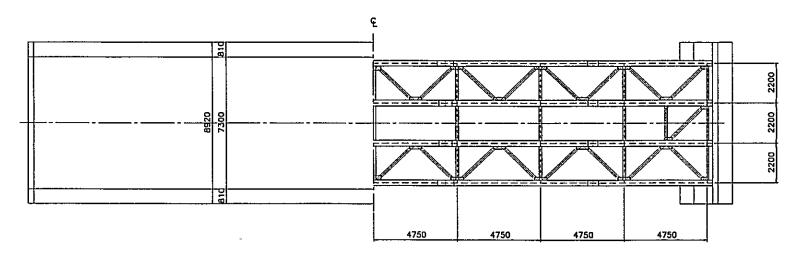
#### GENERAL ELEVATION SCALE 1:100



#### SUPERSTRUCTURE CROSS SECTION | SCALE 1:50



#### GENERAL PLAN SCALE 1:100



1. DESIGN SPECIFICATION

AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (15th EDITION 1992).

2. DESIGN LOAD

2.1 DEAD LOAD: CONCRETE 23.54 KN/m³
CONCRETE PAVEMENT 23.54 KN/m³
2.2 LIVE LOAD: ROADWAY LIVE LOAD HS 20-44
SIDEWALK LIVE LOAD 2 873 KN/m²

2.3 TEMPERATURE CHANGE:

RISE +20' . FALL -20'

2.4 EARTHQUAKE LOAD:

C=0 20 WITH REFERENCE TO RELEVANT AASHTO PROVISIONS AND APPLICABLE CODE.

2.5 OTHER LOADS: IN ACCORDANCE WITH 1992 AASHTO SPECIFICATION.

3. MATERIALS

3.1 STEEL FOR SUPERSTRUCTURE:

STEEL SHALL BE SPECIFIED BY JIS GRADE.

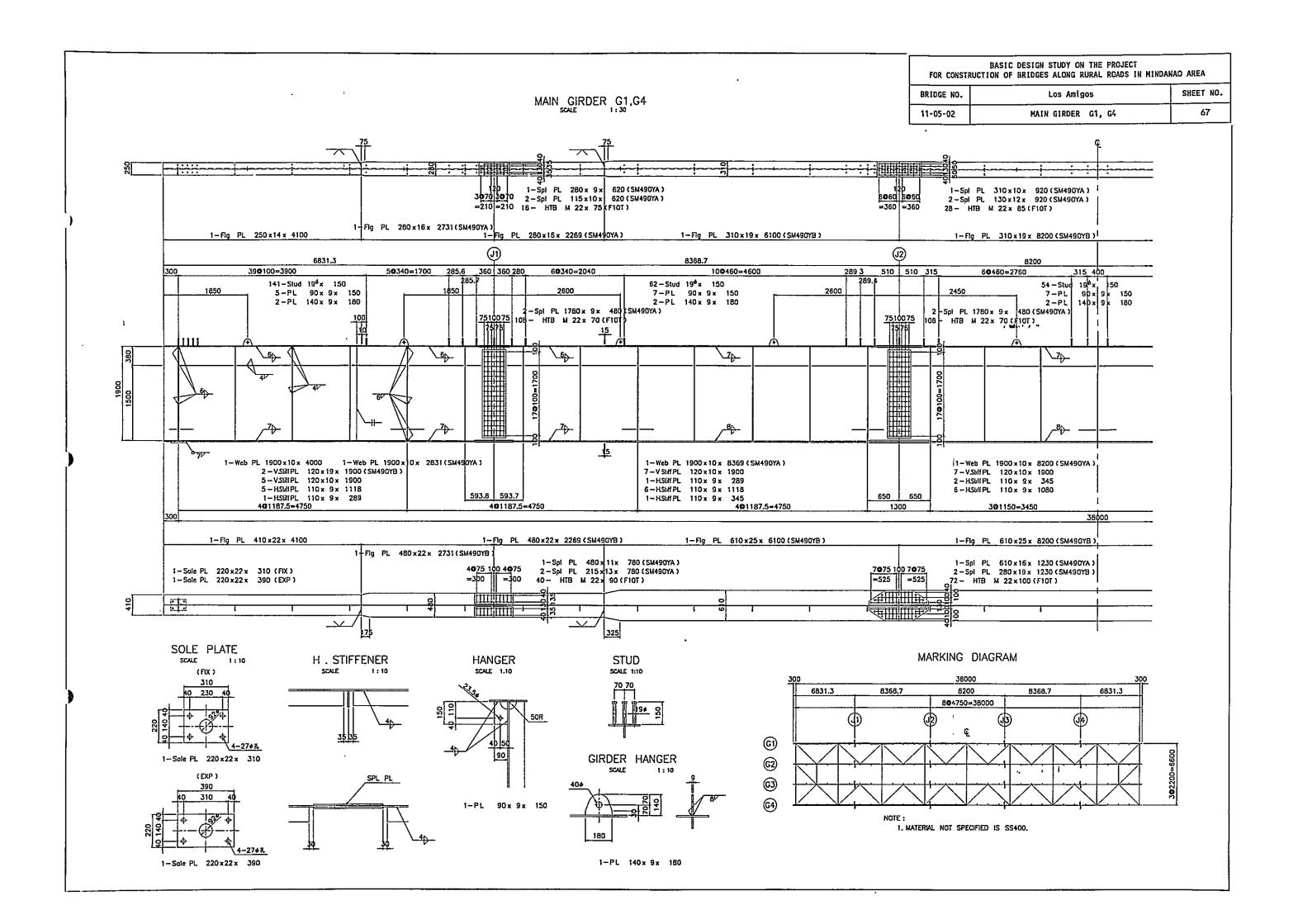
3.2 CONCRETE: CONCRETE FOR SUPERSTRUCTURE (c'=(CLASS A) (c=280kg/cm² CONCRETE FOR SUBSTRUCTURE (c'=(CLASS A) (c=280kg/cm² OTHER MATERIALS SHALL CONFORM TO JIS.

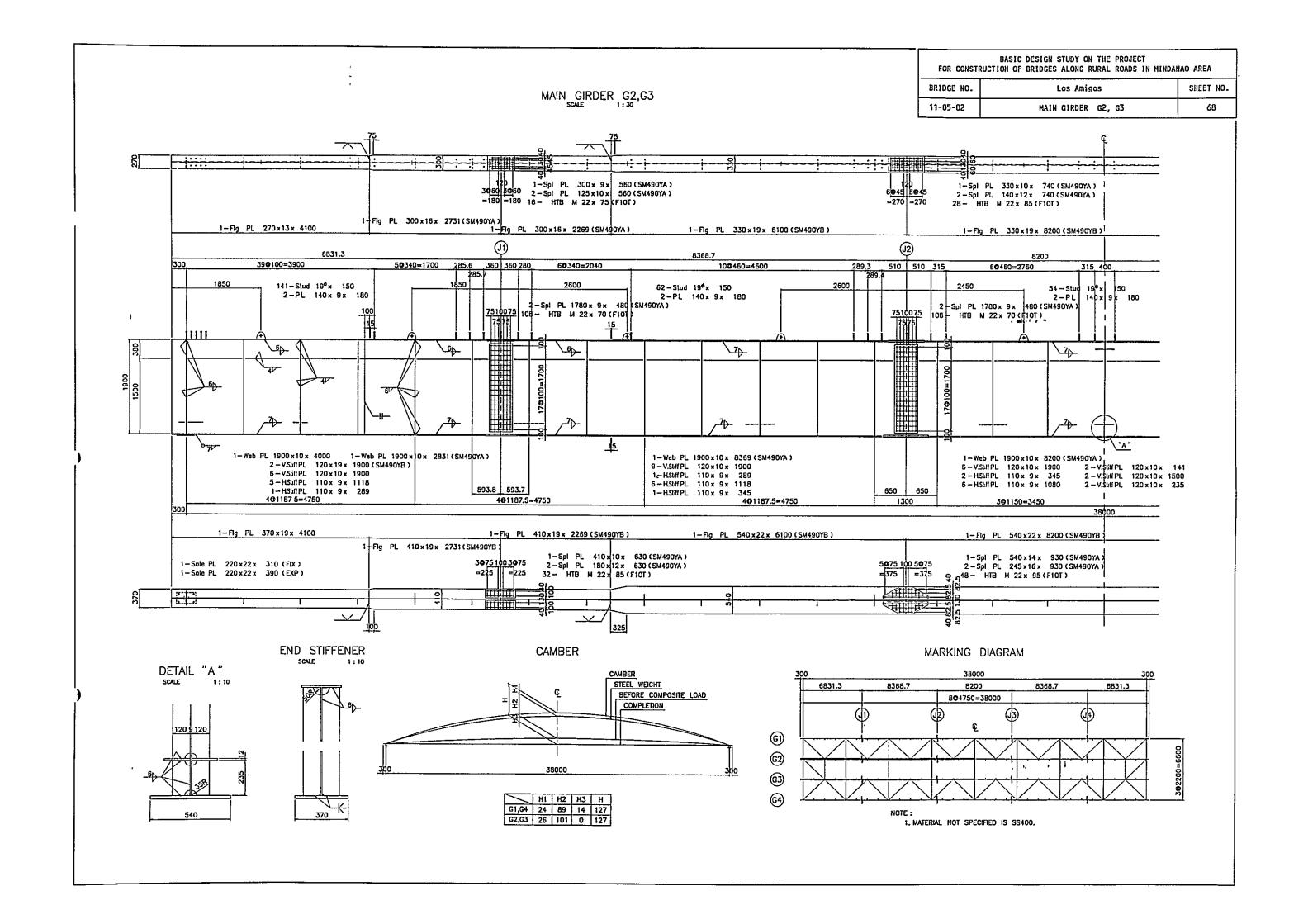
3.3 OTHERS : 4. SUBSTRUCTURE

AS DETAILED INFORMATION FOR SUBSTRUCTURES ARE NOT PROVIDED, DECIDED TYPE AND DIMENSION OF SUBSTRUCTURES WILL BE SPECIFIED

IN SUBSTRUCTURE'S DRAWING. 5. DRAWING

ALL DIMENSIONS ARE EXPRESSED IN MILLIMETER UNLESS OTHERWISE SHOWN PLANS ALL ELEVATION ARE IN METERS.





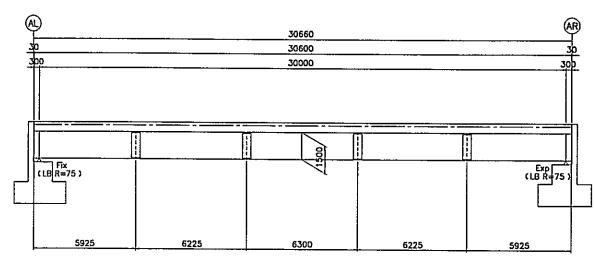
BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA Los Amigos LATERAL BRACING 11-05-02 69 CROSS BEAM, SWAY & LATERAL 4750 4750 4750 2375 2375 2375 2375 2375 2375 2300 2300 (G2)-SLAB ANCHOR 6 2 - Guss PL 370 x 9 x 755 7 8 - Guss PL 290 x 9 x 620 DETAILS SCALE 1:10 (B) 4 - Guss PL 270 x 9 x 580 1 6-Guss PL 325 x 9 x 490 9 4-Guss PL 275 x 9 x 580 CROSS BEAM 2 6-Guss PL 285 x 9 x 300 10 2 - Guss PL 295 x 9 x 300 3 4-Guss PL 325 x 9 x 680 (1) 2 - Guss PL 325 x 9 x 495 2-PL 380×10× 390 2-PL 175×12× 380 28- HTB M 22× 65 (F10T) 4 4-Guss PL 325 x 9 x 660 384- HTB M 22x 60 (F10T) (5) 4 - Guss PL 325 x 9 x 640 12 - HTB M 22 x 65 (F10T) **63**-MARKING DIAGRAM 38000 6831.3 8368.7 8200 8368.7 6831.3 1-Fig PL 250x12x 1870 1-Fig PL 250×12× 1830 804750=38000 **(i)** END SWAY BRACING @ **3** INT. SWAY BRACING 1000 600 1000 2 - RB 616 x 600 (S5400 ) 2 - RB 416 x 600 (SS400 ) 2030 2030 2200 2200 1-Web PL 1500x 9x 2110 1-Web PL 1500 x 9x 2110 26 -- HTB M 22 x 60 (F10T) 26 - HTB M 22 x 60 (F10T) 1-V.Stiff PL 100 x 9 x 1500 1-V.SbifPL 100 x 9x 1500 2-HSMPL 90x 9x 1890 2-HSbff PL 90 x 9 x 1890 2-PL 380×10× 390 1015 1015 2-PL 175x12x 380 145 145 1910 1910 1910 1910 28- HTB M 22x 65 (F10T) 2200 2200 2200 1- C 250x 90x 9x13x 1890 2- CT 95x152x 8x 8x 1380 2- CT 95x152x 8x 8x 1910 2- CT 95x152x 8x 8x 1425 1- E 250x 90x 9x13x 1900 2- CT 95×152× 8× 8× 1380 1- CT 95×152× 8× 8× 1910 1- CT 95×152× 8× 8× 1910 2 - Guss PL 370 x 9 x 315 1 - Guss PL 315 x 9 x 450 2 - Guss PL 230 x 9 x 320 2-Guss PL 230 x 9x 320 1-Fig PL 250×12× 1870 1-Fig PL 250×12× 1830 NOTE: 2-Guss PL 230 x 9 x 300 16- HTB M 22 x 60 (F10T) 1-Guss PL 415 x 9x 450 1-Guss PL 415 x 9x 450 1. MATERIAL NOT SPECIFIED IS SS400. 2-Guss PL 380 x 9 x 315 2-GussPL 380x 9x 315

14 - HTB M 22x 70 (F10T)

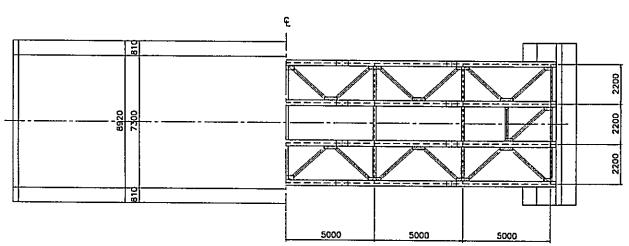
14- HTB M 22x 70 (F10T)

#### GENERAL VIEW

#### GENERAL ELEVATION SCALE 1:100



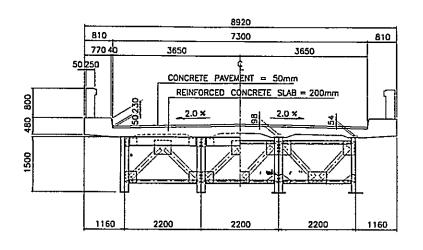
#### GENERAL PLAN SCALE 1:100



#### BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA

1			
	BRIDGE NO.	Lais Baliton	SHEET NO.
	11-05-07 11-06-02	GENERAL VIEW	70

#### SUPERSTRUCTURE CROSS SECTION SCALE 1:50



1. DESIGN SPECIFICATION
AASHTO STANDARD SPECIFICATIONS FOR HICHWAY BRIDGES (15th EDITION 1992).

2. DESIGN LOAD

CONCRETE 2.1 DEAD LOAD: 23.54 KN/m<sup>3</sup>

CONCRETE PAVEMENT 23 54 KN/m3

2.2 LIVE LOAD: ROADWAY LIVE LOAD HS 20-44 SIDEWALK LIVE LOAD 2.873 KN/m2

2.3 TEMPERATURE CHANGE:

RISE +20" . FALL -20"

2.4 EARTHQUAKE LOAD:

C=0 20 WITH REFERENCE TO RELEVANT AASHTO PROVISIONS AND

APPLICABLE CODE.
2.5 OTHER LOADS: IN ACCORDANCE WITH 1992 AASHTO SPECIFICATION.

3. MATERIALS

3.1 STEEL FOR SUPERSTRUCTURE:

3.2 CONCRETE:

STEEL SHALL BE SPECIFIED BY JIS GRADE.

CONCRETE FOR SUPERSTRUCTURE (c'=(CLASS A) (c=280kg/cm<sup>1</sup>
CONCRETE FOR SUBSTRUCTURE (c'=(CLASS A) (c=280kg/cm<sup>1</sup>

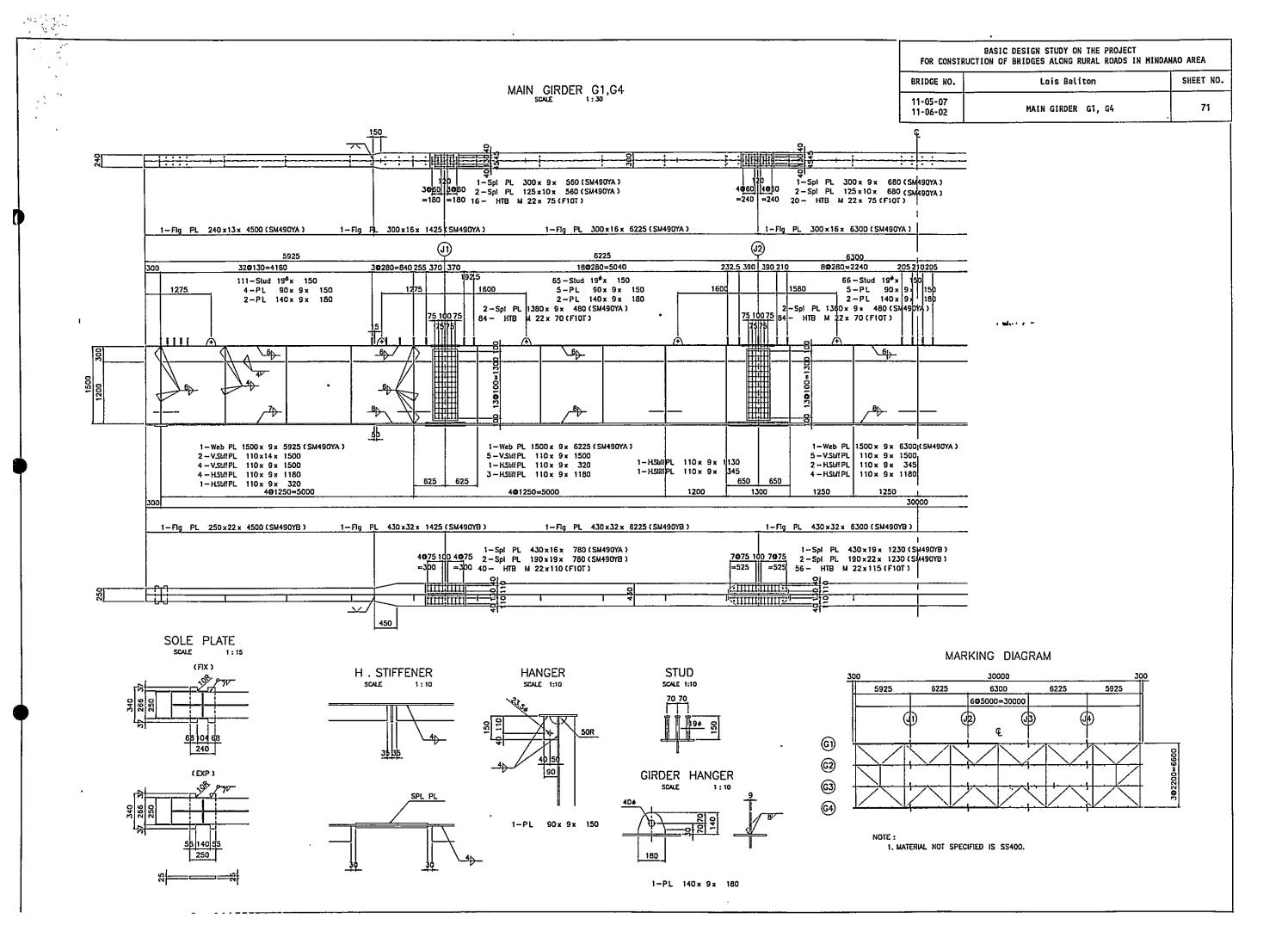
3.3 OTHERS: OTHER MATERIALS SHALL CONFORM TO JIS.

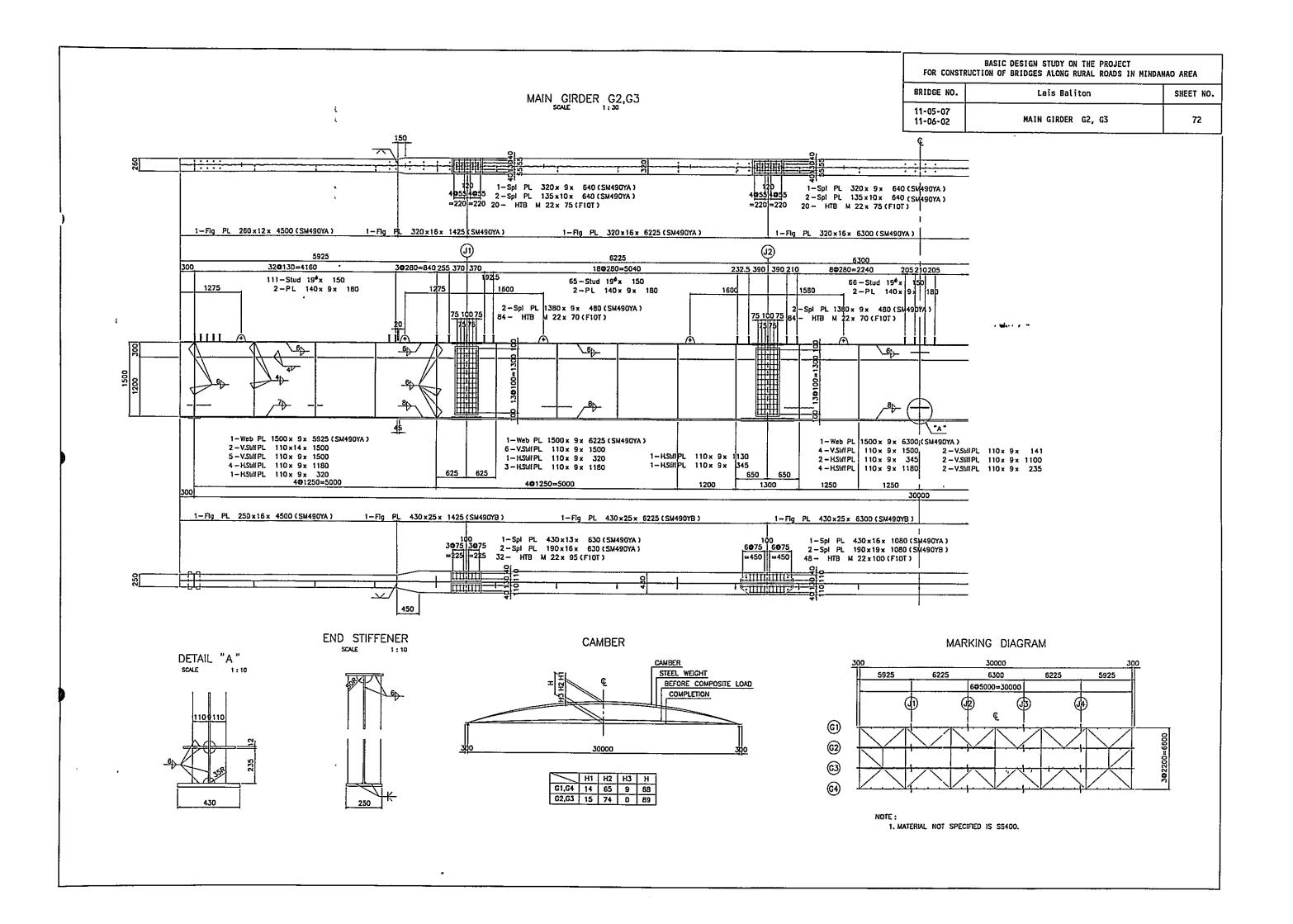
4. SUBSTRUCTURE

AS DETAILED INFORMATION FOR SUBSTRUCTURES ARE NOT PROVIDED. DECIDED TYPE AND DIMENSION OF SUBSTRUCTURES WILL BE SPECIFIED

IN SUBSTRUCTURE'S DRAWING.

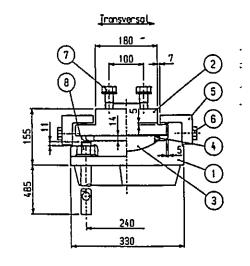
ALL DIMENSIONS ARE EXPRESSED IN MILLIMETER UNLESS OTHERWISE SHOWN PLANS ALL ELEVATION ARE IN METERS

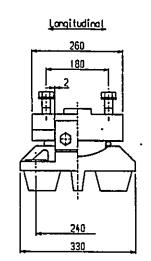


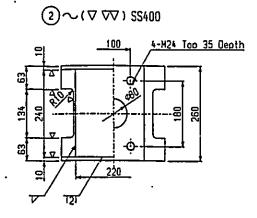


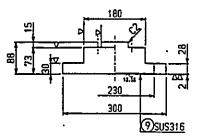
BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA BRIDGE NO. Lais Baliton SHEET NO. LATERAL BRACING 11-05-07 CROSS BEAM, SWAY & LATERAL 73 11-06-02 5000 5000 5000 5000 2500 2500 2500 2500 2500 2500 2500 SLAB ANCHOR 1 6-Guss PL 310 x 9x 490 4-GussPL 290 x 9 x 630 CROSS BEAM 6 - Guss PL 285 x 9 x 300 8 - Guss PL 275 x 9 x 600 DETAILS SCALE 1:10 4-GussPL 310x 9x 660 2-GussPL 285 x 9 x 300 4-Guss PL 310 x 9x 645 9 2-GussPL 315x 9x 495 2-Pt 380×10× 390 (5) 2-Guss PL 340 x 9x 750 304 - HTB M 22x 60 (F10T) 2-PL 176×12× 380 " B" 8- HTB M 22x 65 (F10T) 28- HTB M 22x 65 (F10T) **63**-MARKING DIAGRAM 5925 6225 6300 6225 5925 605000-30000 PL 250 x 12 x 1881 1-Flg PL 250x12x 1830 **(i)** @ END SWAY BRACING **© (4)** INT. SWAY BRACING 1910 1900 1000 600 600 1000 2 - RB #16 x 600 (SS400 ) 2 - RB +16 x 600 (SS400 ) 1100 1100 2051 2051 2200 2200 1-Web PL 1100 x 9x 2131 18- HTB M 22x 60 (F10T) 1-Web PL 1100 x 9x 2131 18- HTB M 22x 60 (F10T) 1-VSETPL 100 x 9 x 1100 1-V.SuffPL 100 x 9 x 1100 2-HSUFPL 90x 9x 1910 2-HSWIPL 90x 9x 1910 1025 5 1025.5 1025,5 2-PL 380x10x 390 1345 134.5 1931 1931 1931 134.5 134.5 1931 2-PL 176x12x 380 2200 2200 2200 2200 28- HTB M 22x 65 (F10T) 1- C 250x 90x 9x13x 1900 2- CT 95x152x 8x 8x 1130 1- CT 95x152x 8x 8x 1931 2-GussPL 230x 9x 315 1- C 250x 90x 9x13x 1910 2- CT 95x152x 8x 8x 1130 1- CT 95x152x 8x 8x 1931 2- CT 95x152x 8x 6x 1931 2- CT 95x152x 8x 8x 1155 2 - Guss PL 320 x 9 x 365 2-Guss PL 230x 9x 315 1-Guss PL 305 x 9 x 520 2-Guss PL 230 x 9 x 300 14- HTB M 22 x 60 (F10T) 1-Fig PL 250×12× 1881 1-Fig PL 250×12× 1830 1-Guss PL 385 x 9 x 485 2-Guss PL 300 x 9 x 315 1-Guss PL 385 x 9x 485 1. MATERIAL NOT SPECIFIED IS \$\$400. 2-GussPL 300x 9x 315 12- HTB M 22x 65 (F10T) 12- HTB M 22x 65 (F10T)

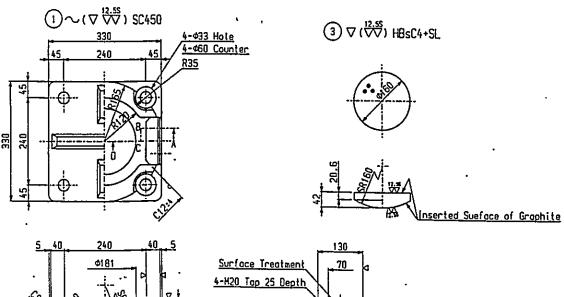
BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA					
BRIDGE NO.		SHEET NO.			
	SHOE (1)	74			



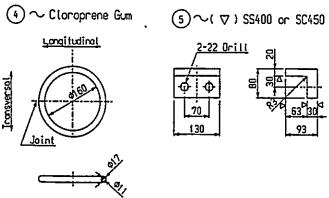








Section ABCD



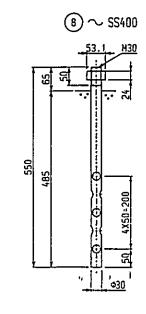
- 6 Hexagon Bolt M20X50 4.6
- 7 Hexagon Bolt M24X 4.6 Plain Washers 24 X 44 X 4.5 -10H

# DESIGN CONDITIONS

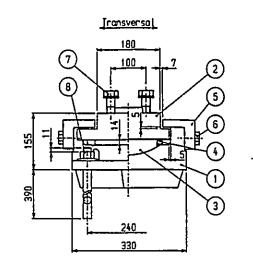
REACTI	ON	
Total Reaction	R	60.3 ton
Dead Loud Reaction	Rd	48 ton
Longitudinal Reaction(Hov)	RHI	19.5 tan
Longitudinal Reaction(Seismic)	RHIe	25.4 ton
Transverse Reaction(Seismic)	Ritte	24.2 ton
Uplift	٧	6.7 ton
BEARING S	TRESS	
Lower Constructing Allowable	σω	80 kg/cm²
Upper Constructing Alloyoble	(J ba	2100 kg/cm <sup>2</sup>

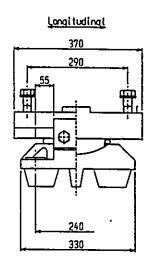
MATERIAL LIST

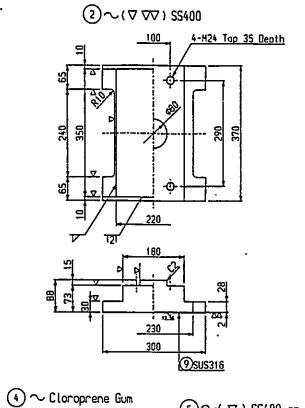
UNITRIAC FISE							
HARK	NAH	E	HATERIAL	O' ty	ÆlGH(kg)	REMARKS	
	Lower Shoe		SC450	1	51.8		
2	Upper Shoe		SS400	-	31.1		
3	Bearing Plat	e	HBsC4+SL	1	4.9		
4	Seal Ring		Ciaraprene Gae	1	0.1		
5	Side Block		22. 20.420 22.400	2	7.1		
6	Hexagan Bolt			4	0.8	JIS 8 1180	
7	Hexagon Bolt-W	asher		4	1.4	3 5 B (180 3 5 B (256	
8	Anchor Bolt • N	ut	SS400	4	9.8	JIS B 1181	
9	Stainless Pl	ate	SUS316	1	0.8	220X2X235	
	Totai	Yeio	it (kg)		107.8		
	TREATMENT OF ANTIRUST						
Zire Not Dip Gelvonizings   Occupatity   550g/m²min,350g/m²min(Balt)					n(Balt)		
Pai	nt	Area	0.4	40m²			

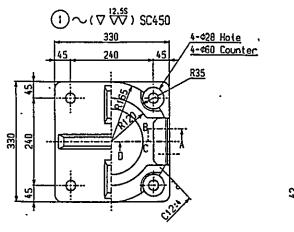


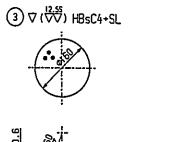
. BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA						
BRIDGE NO.		SHEET NO.				
	SHOE (2)	75				



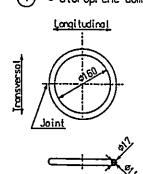


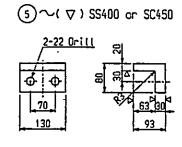


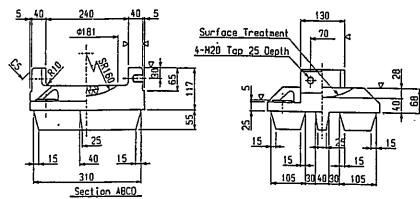




<u>Inserted Sueface of Graphite</u>







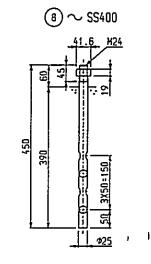
- 6 Hexagon bolt M20X50 4.6
- 7 Hexagon Bolt M24X 4.6 Plain Washer 24X44X4.5-10H

# DESIGN CONDITION

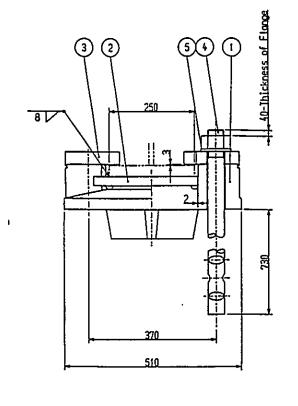
REACTION						
Total Reaction	R	60.3 ton				
Dead Load Reaction	Rd	48 tan				
Longitudinal Reaction(Hov)	RHI!	9 ton				
Longitudinal Reaction(Seismic)	RHI∉	17.6 tan				
Transverse Reaction(Seismic)	Rico	17.6 ton				
Uplift	٧	6.7 ton				
HOYEN	HOVEHENT					
Movable Lenght	e <sub>i</sub>	50 mm				
Surplus Lenght	e₂	70 mm				
Total Lenght	е	:10 mm				
FRICT	ION					
Friction Coefficient	f	0.15				
· WAN BEARING STRESS						
Lower Constructing Allowable	Qbα	80 kg/ca²				
Ubper Constructing Allowable	Qβα	2100 kg/ca²				

## MATERIAL LIST

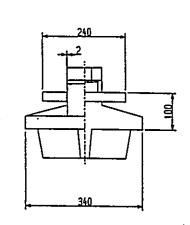
HARK	NYKE		HATERIAL	Q ty	EIGHT	(kg	)REH	ARKS
1	Lower Shoe		SC450	ı	52	2.0		
2	Upper Shoe		SS400	1	43	3.4		
3	Bearing Pla	ot e	H8sC4+5L	1	·	4.9		
4	Seal Ring		Crompters &	1		1.0		
5	Side Block		22.60 22.60	2		7.1		
6	Hexagon Bolt		-	4	(	3.8	JIS 8	1180
7	Hexagon Bolt•	Yasher		4		1,4	388	1180
8	Anchor Bole - Nut		SS400	4		5.8	JIS 8	1181
9	Stanless Plate		SUS316	1		1.2	220X2	2346
	To	tal Ye	ight (kg)		116	.7		
	TREATMENT OF ANTIRUST							
ZincH	bt Clp Colvanizings	ity 550g	/n²ni	n,350g	/m³a	in(B	alt)	
Pai	nt	F	aint Arec	1	0.	42	m²	

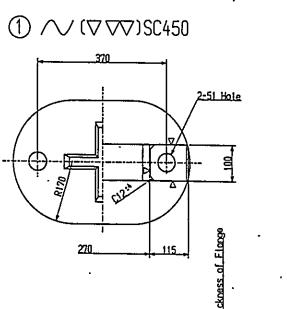


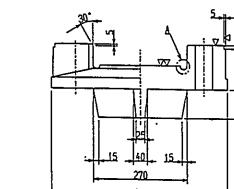
BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA						
BRIDGE NO.		SHEET NO.				
	SHOE (3)	76				

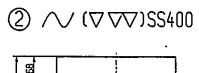


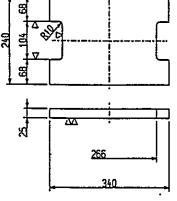
Detail A.



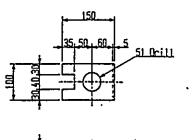


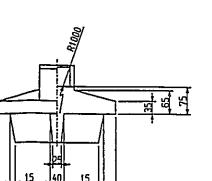




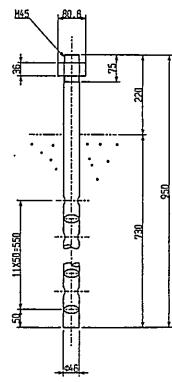


③ \(\sigma\) (\(\nabla\)\$\$\$400





④ ∕ SS400



# DESIGN CONDITION .

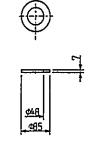
REACTION						
Total Reaction	R	75 ton				
Dead Load Reaction	Rd	56.3 ton				
Live Load Reaction	R(1•i)	18.7 ton				
Longitudinal Reaction(Mov)	Rmi	18.8 tan				
Langitudinal Reaction(Seismic)	RHIe	27 ton				
Transverse Reaction(Seismic)	RtGe	13.5 ton				
Uplift	٧	5.63 tan				
SEINIC INTENSIT	Y COEFF	ICIENY				
Harizontol Seinic Intensity Coefficient	Ки	0.24				
FRICT	ION					
Friction Coefficient	f	0.25				
BEARING STRESS						
Lover Constructing Allowable	Q pc	8ú kg/cm²				

# MATERIAL LIST

HARK	NAHE	MATERIAL	0'ty	NEIGHT (kg)	REMARKS		
1	Lower Shoe	SC450	1	80.1			
2	Upper Shoe	SS400	1	14.5			
3	Pinch Plate	\$\$400	2	6.2			
4	Anchor Bolt Nut	SS400	2	26.3			
5	Plain Washer	SS400	2	0.4			
	Total Veight (kg) 127.5						

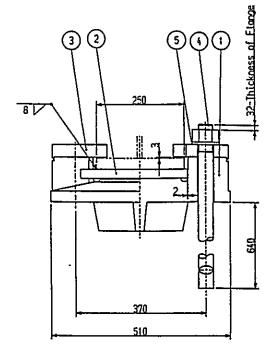
Paint Area 0.46m²

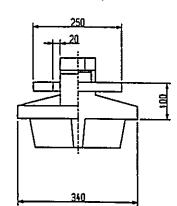
# ⑤ **◇** SS400

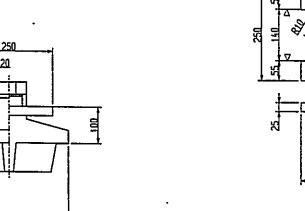


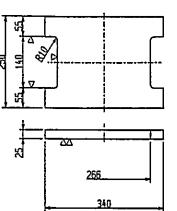
ا ر ر

BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA					
BRIDGE NO.		SHEET NO.			
	SHOE (4)	77			





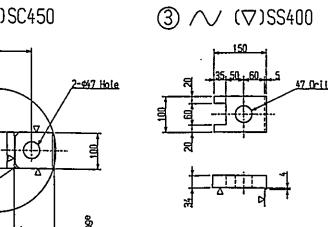




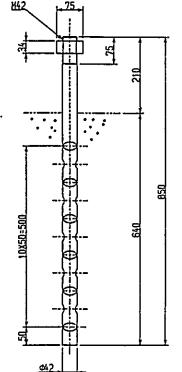
# DESIGN CONDITION .

		_			
REACTION					
Total Reaction	R	75 tan			
Dead Load Reaction	Rd	56.3 lon			
Live Load Reaction	Rusii	18.7 ton			
Langitudinal Reaction(Hav)	R <sub>HST</sub> _	18.8 ton			
Langitudinal Reaction(Seismic)	RHIE	13.5 ton			
Transverse Reaction(Seismic)	Rii2∗	13.5 tan			
Uptift	V	5.63 ton			
MOVEM	ENT				
Movable Lenght .	e۱	20 mm			
Surplus Lenght	eг	40 mm			
Total Lenghi	е	40 mm			
SEIMIC INTENSITY COEFFICIENY					
Harizonla Meinior Intensity Coefficient	Кн	0.24			
FRICTION					
Friction Coefficient	ſ	0.25			
BEARING STRESS					
Lower Constructing Allowable Obs · 80 kg/cm²					







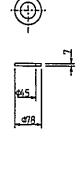


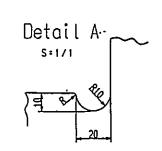
# MATERIAL LIST

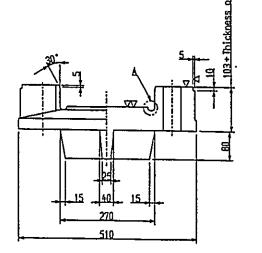
MARK	NAHE	MATERIAL	0'ty	MEICHT (kg)	REMARKS
	Lower Shoe	SC450	1	80.7	
2	Upper Shoe	SS400		14.7	
3	Pinch Plate	55400	2	6.0	
4	Anchor Bolt Nut	SS400	2	19.7	
5	Plain Yasher	SS400	2	0.4	
Total Weight (kg) 121.5					

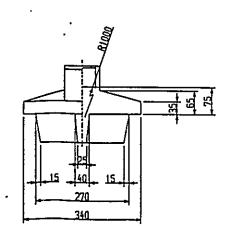
Paint Area 0.38m²

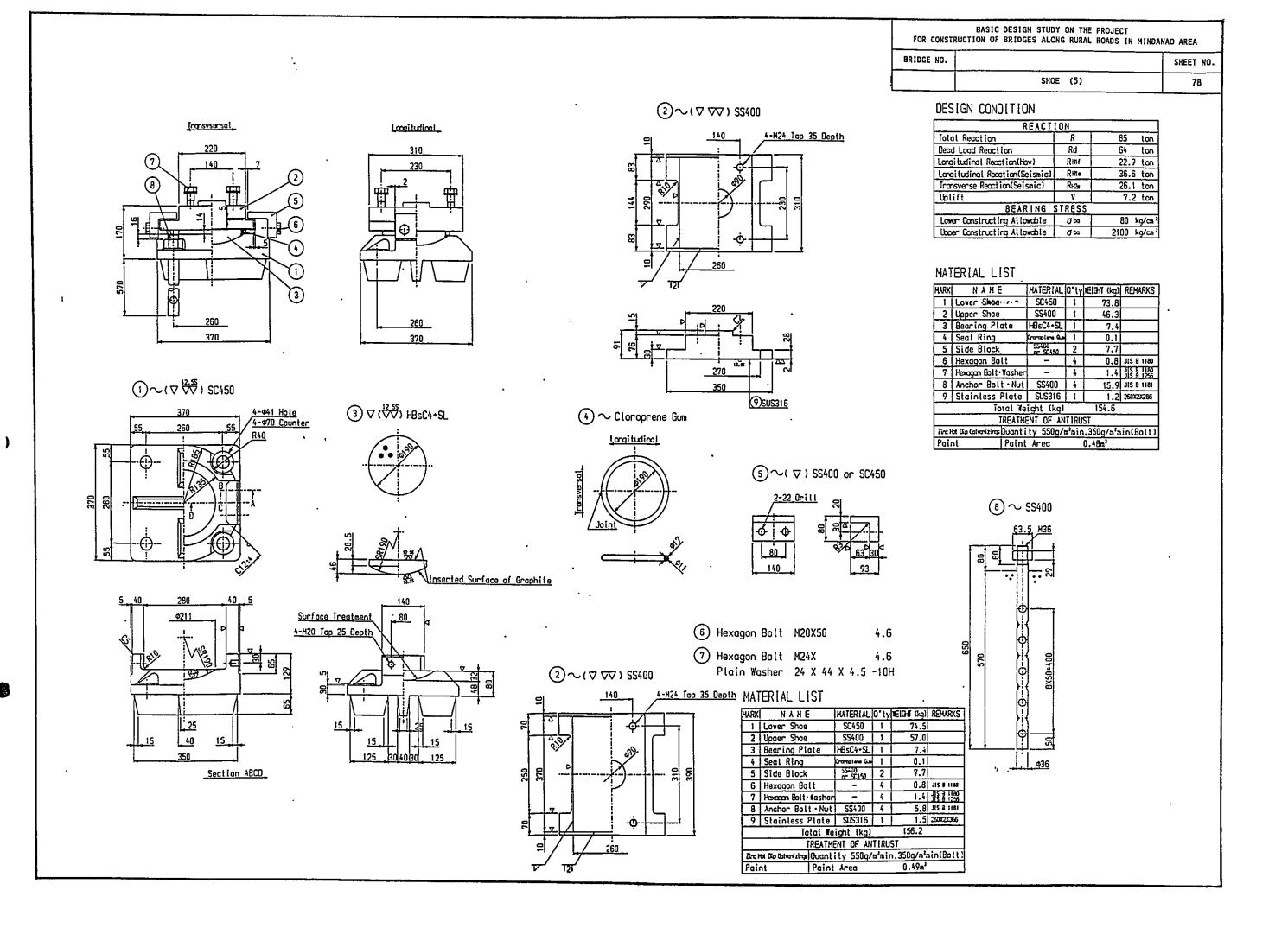
# ⑤ ∕∵ SS400









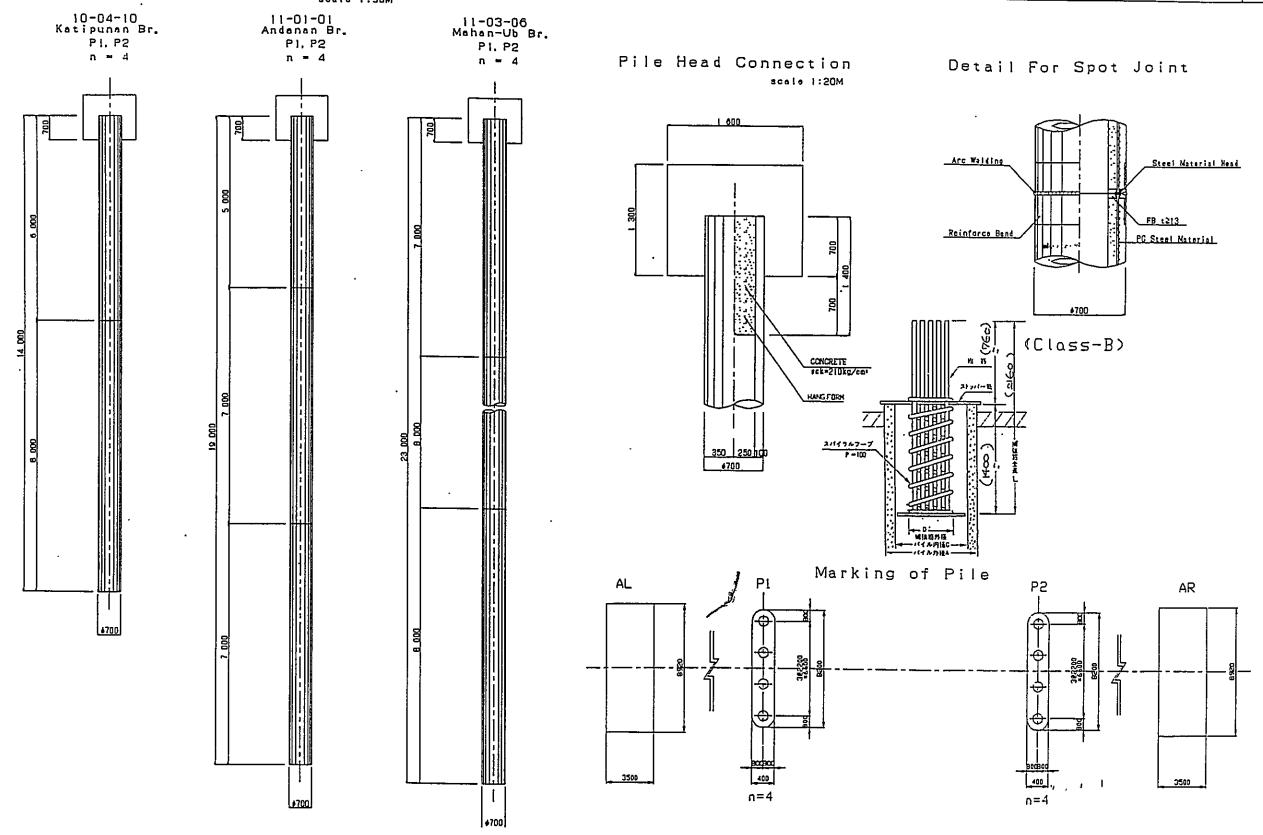




# BASIC DESIGN OF MISCELLANEOUS STRUCTURES TO BE PROCURED BY THE PROJECT (GROUP 1)

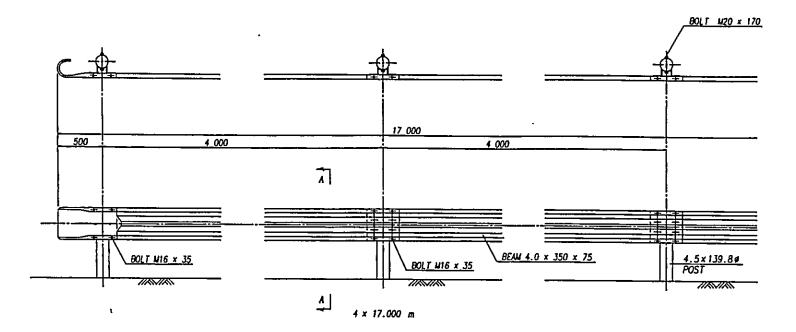
BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA BRIDGE NO. DETAIL OF PC PILE 79 Detail For Spot Joint Arc Walding Steel Material Head FB\_t213 Reinfarce Bend PG Steel Naterial (Class-B) P2 AR n=4

Detail Of PHC-Pile (Class-B)



BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA BRIDGE NO. DETELE OF PROTECTION DETAIL OF PROTECTION 80 TYPE 2-1 TYPE 1 TYPE 3 3CALE 1.50 N SCALE 1,50 N TYPE 2-2 scale 1:50 W DETELE OF FILTER UNIT DETELE OF SHEET PILES FIRST STEP SECOND STEP CROUTED RIPRAP SELECTED CHAVEL DETELE OF GABION SHEET PILE TYPE-II SECTION THIRD STEP FORTH STEP

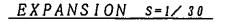
## GUARD RAIL S=1/20



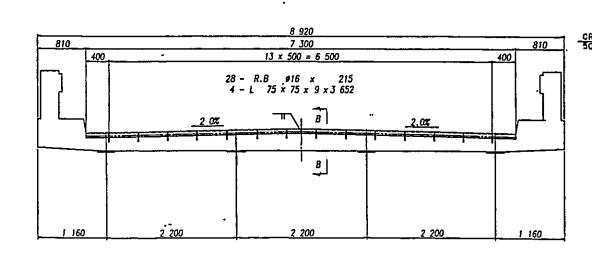
B - B s-1/10

L 75 × 75 × 9 ANGLE IRON FIXING

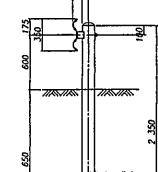
NUTS SHALL BE REPLACED BY PLASTIC CAPS AFTER INSTALLED



# ROCATION OF ANGLE IRON FIXING



	<u>C</u> R	SPONGE S · 1/3		ø
	<u>a14</u>	1.1		K.
	<u> </u>	<u> </u>		35
	<u> </u>		Ŭ -	25
125	150	13 @ 250 = 3250	125	
		3 650		



BRIDGE NO.

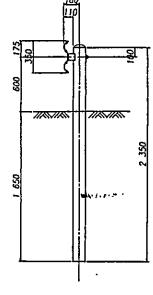
BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA

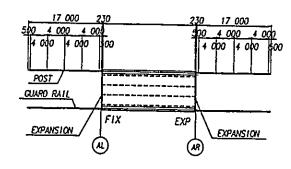
GUARD RAIL

SHEET NO.

81

MARKING .





NOTE
1. MATERIAL NOT SPECIFIED IS SS400

. 9 , 1 1

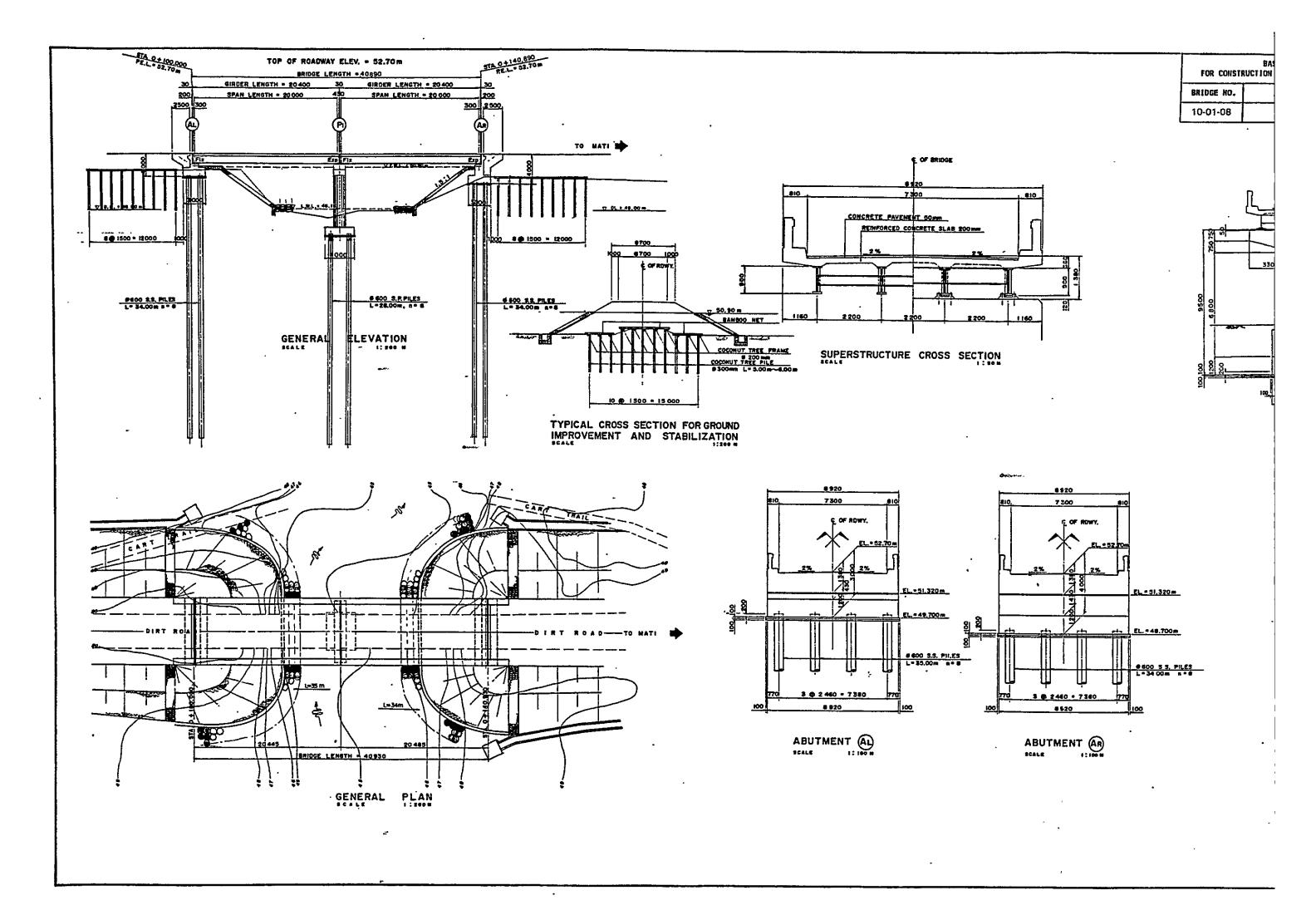
•				
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			•	

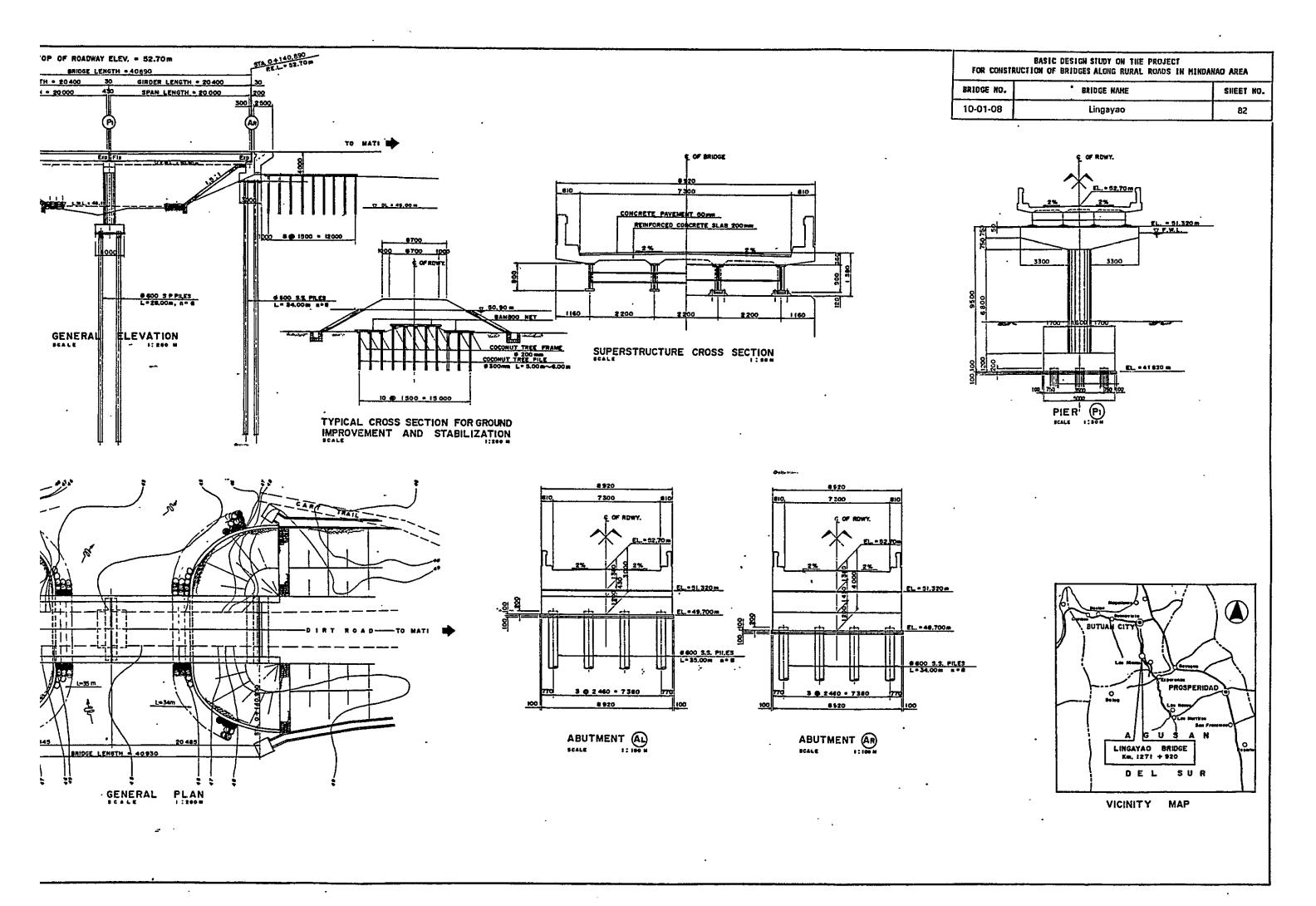
GENERAL VIEW

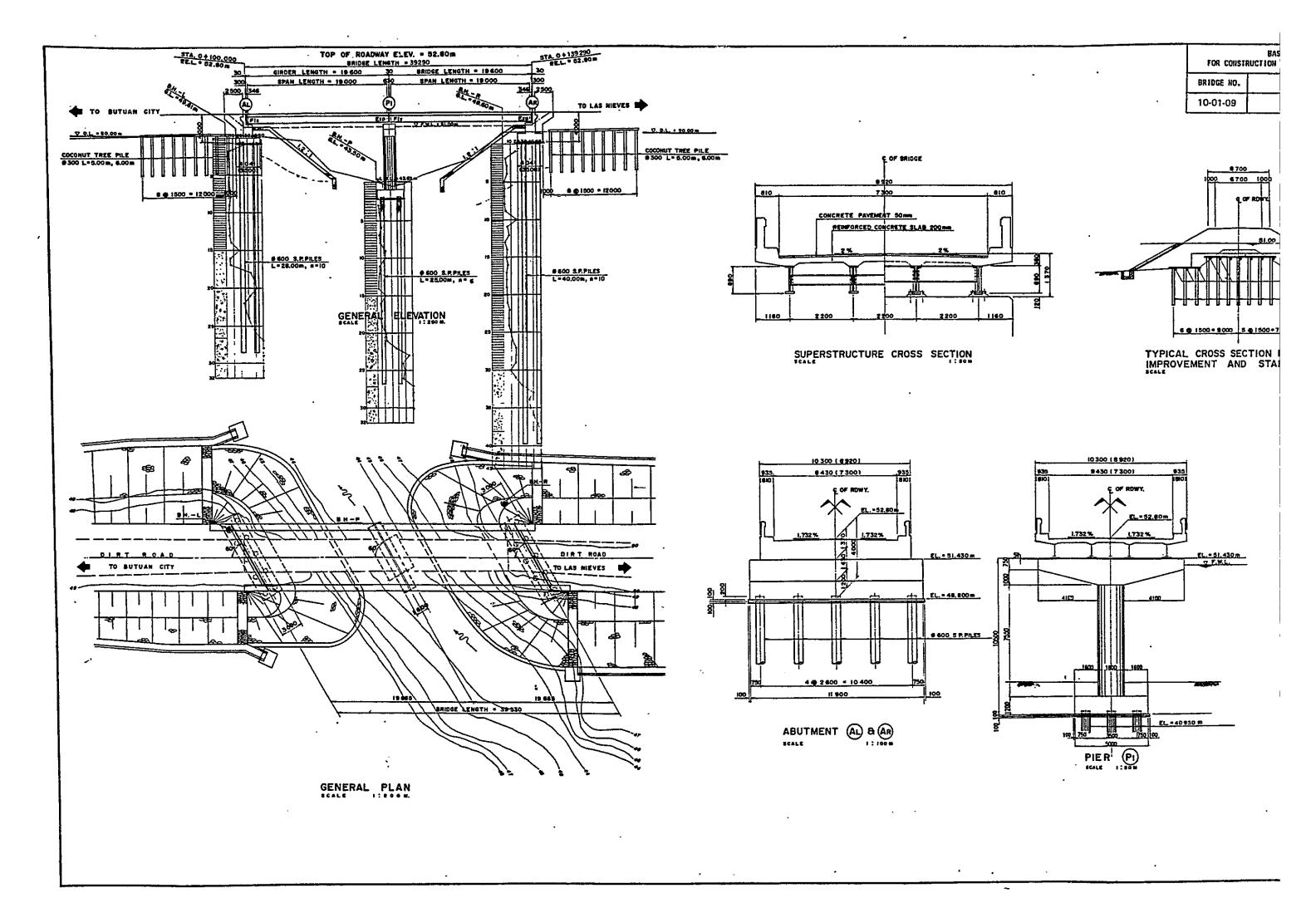
OF

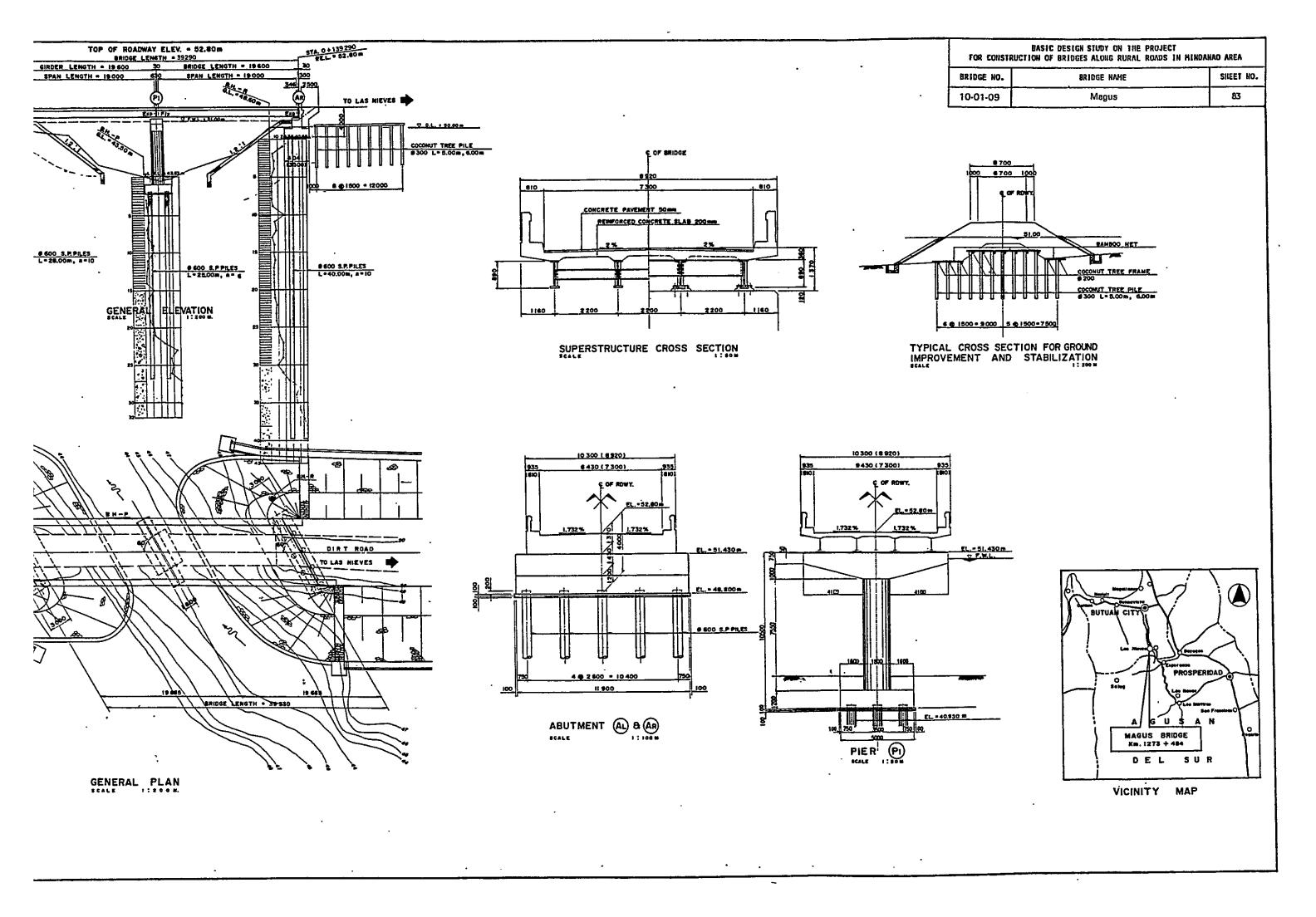
BRIDGES

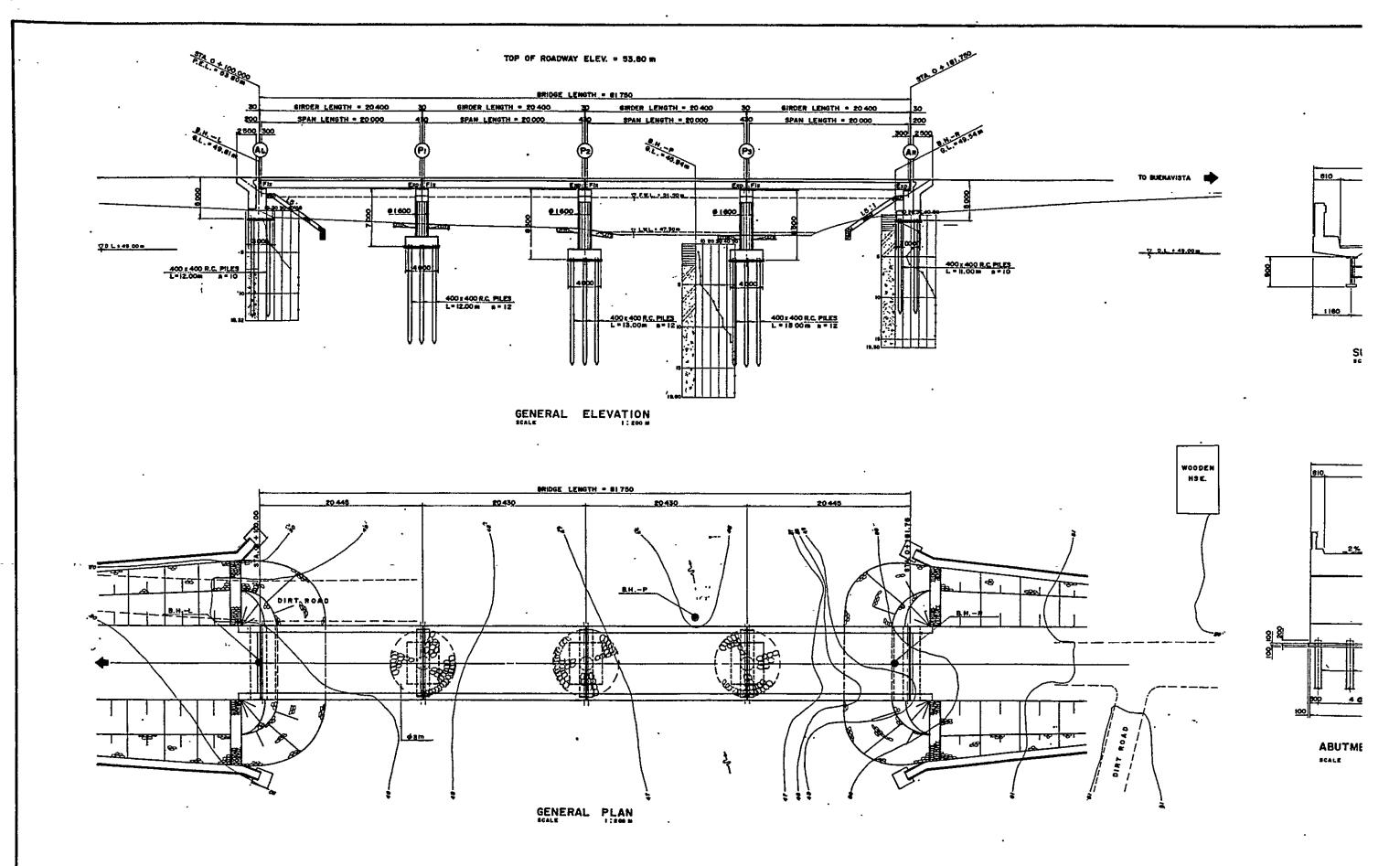
(GROUP 2)

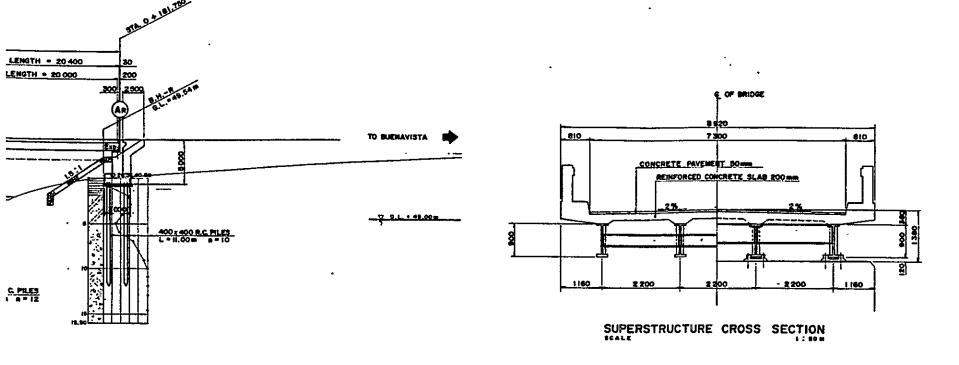


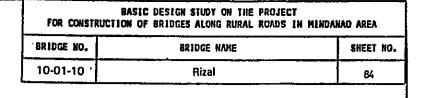


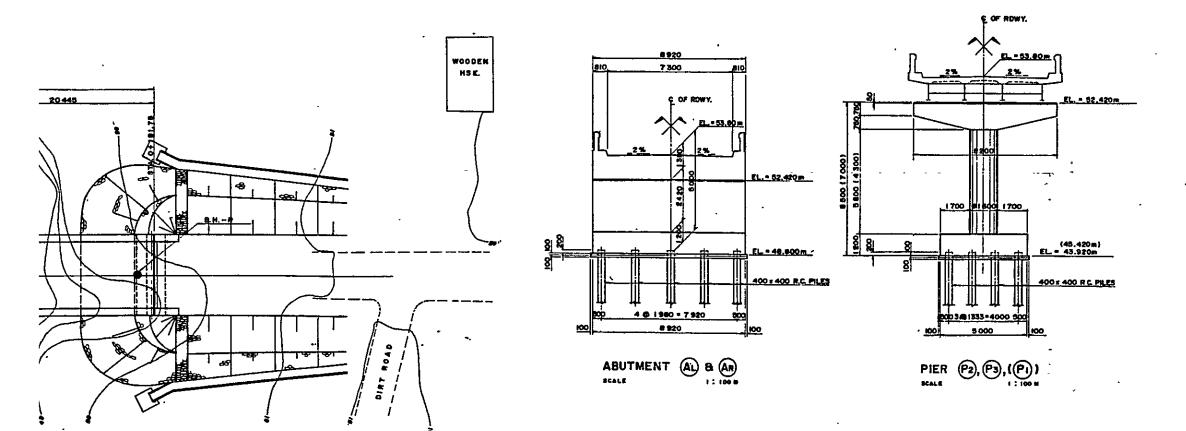


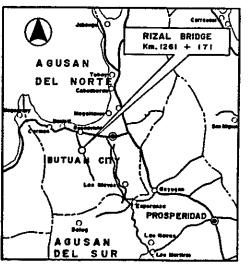




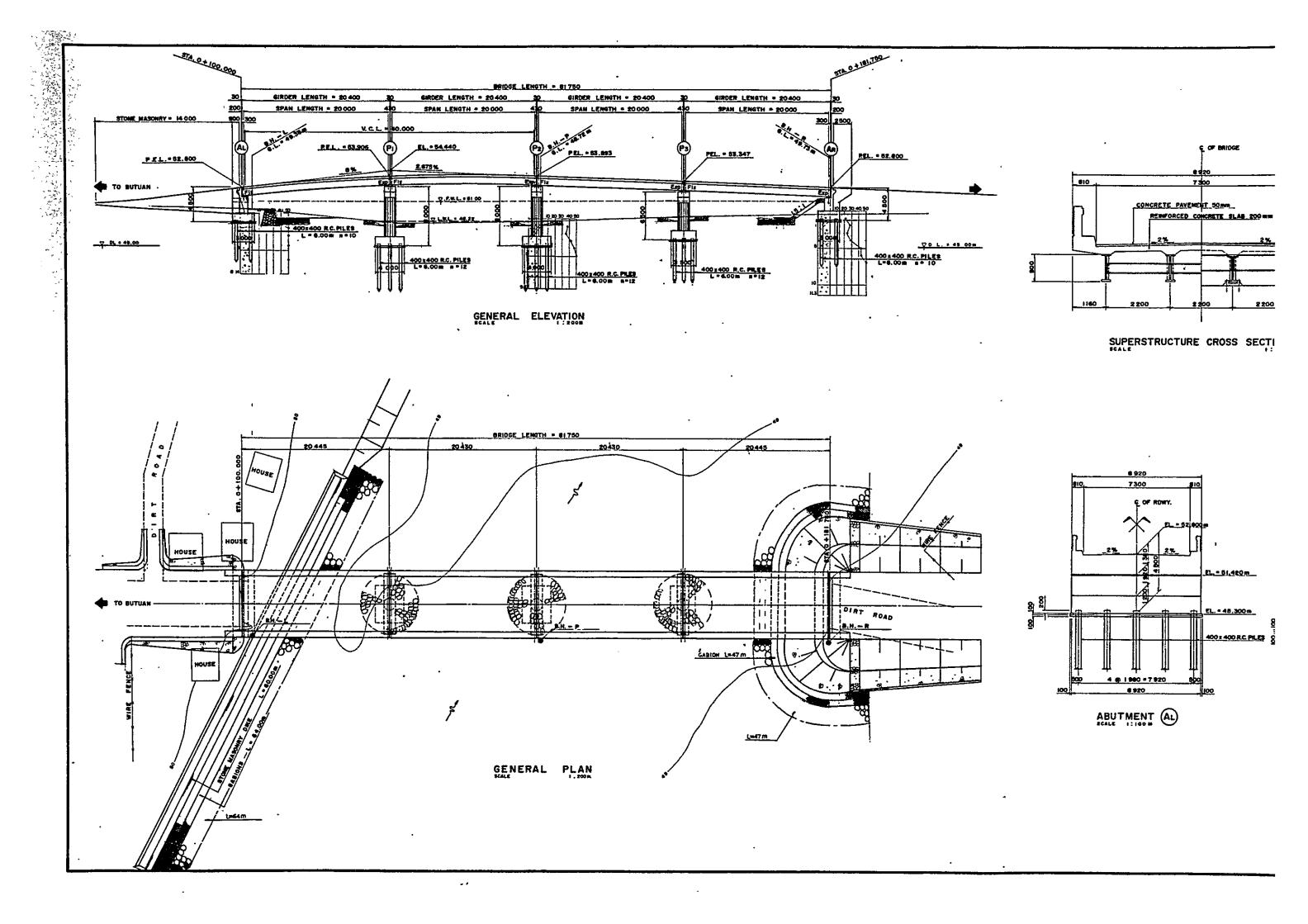


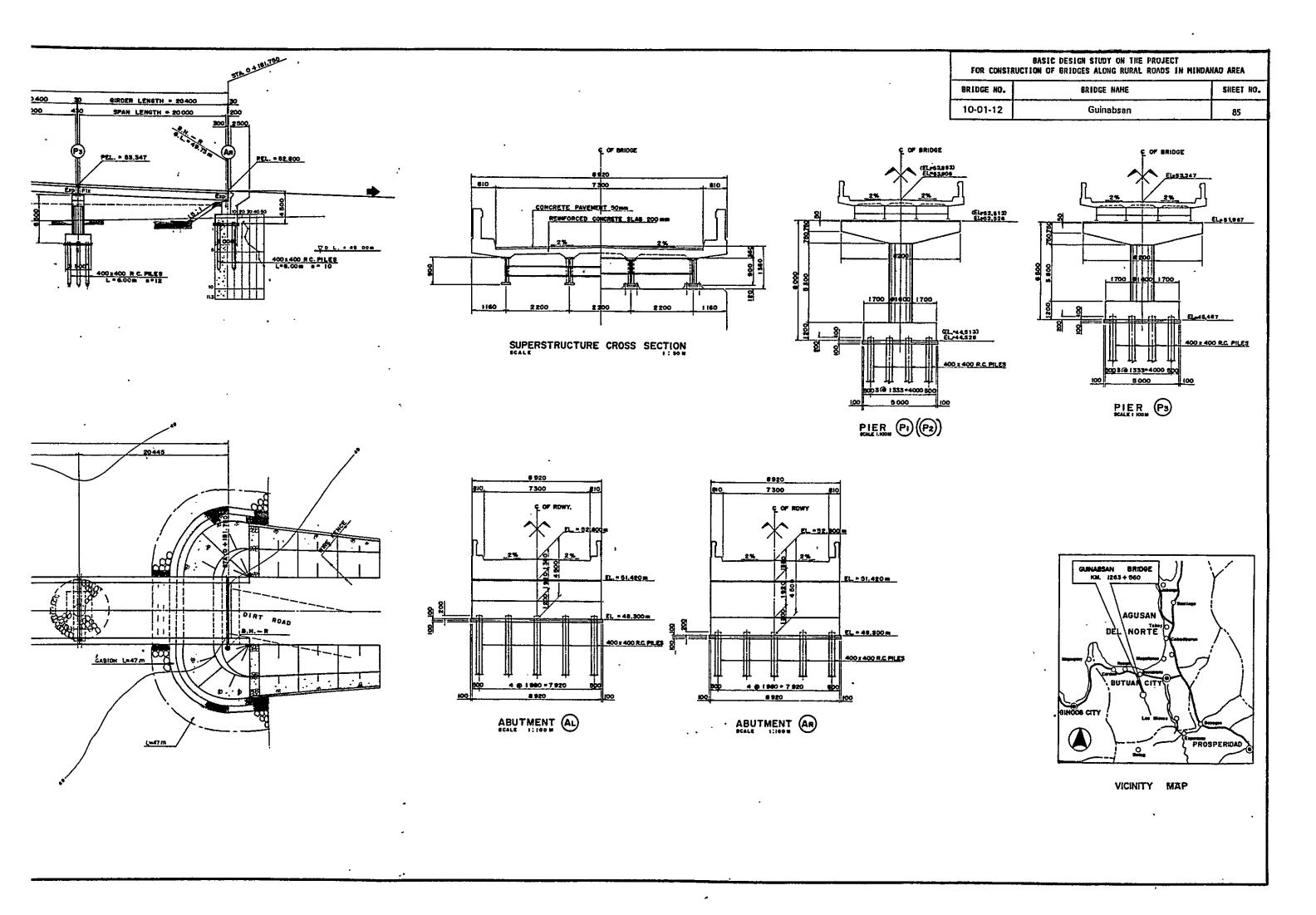


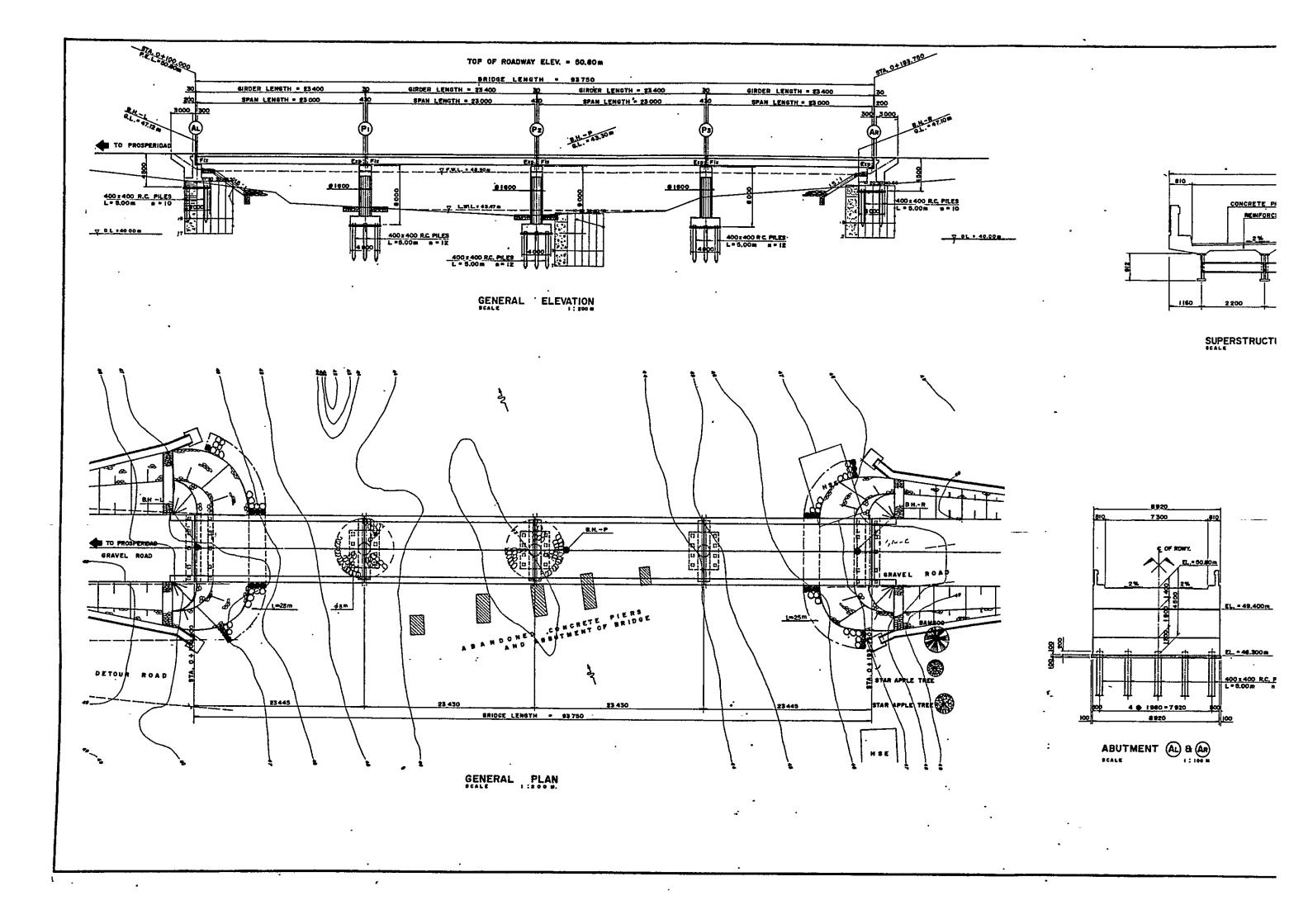


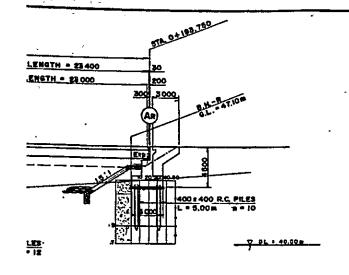


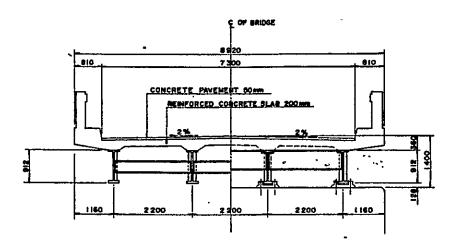
VICINITY MAP



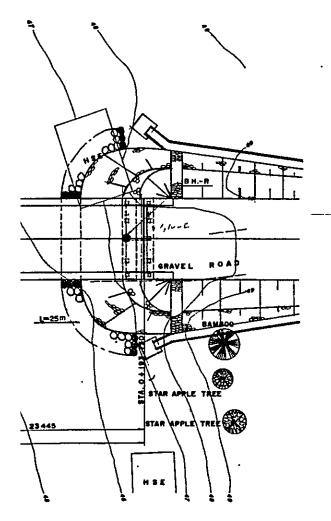


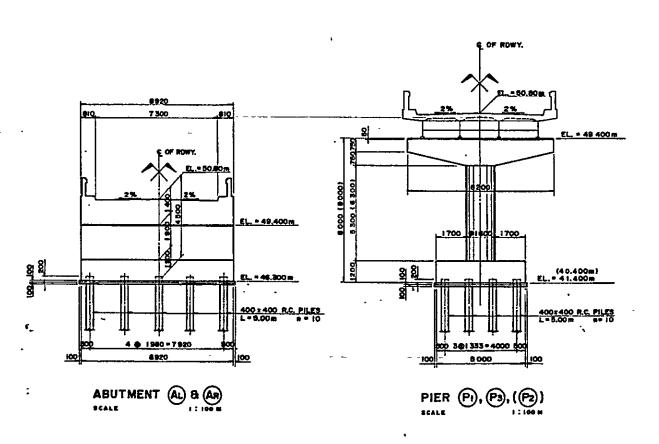




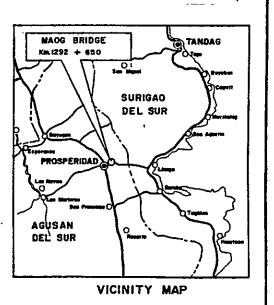


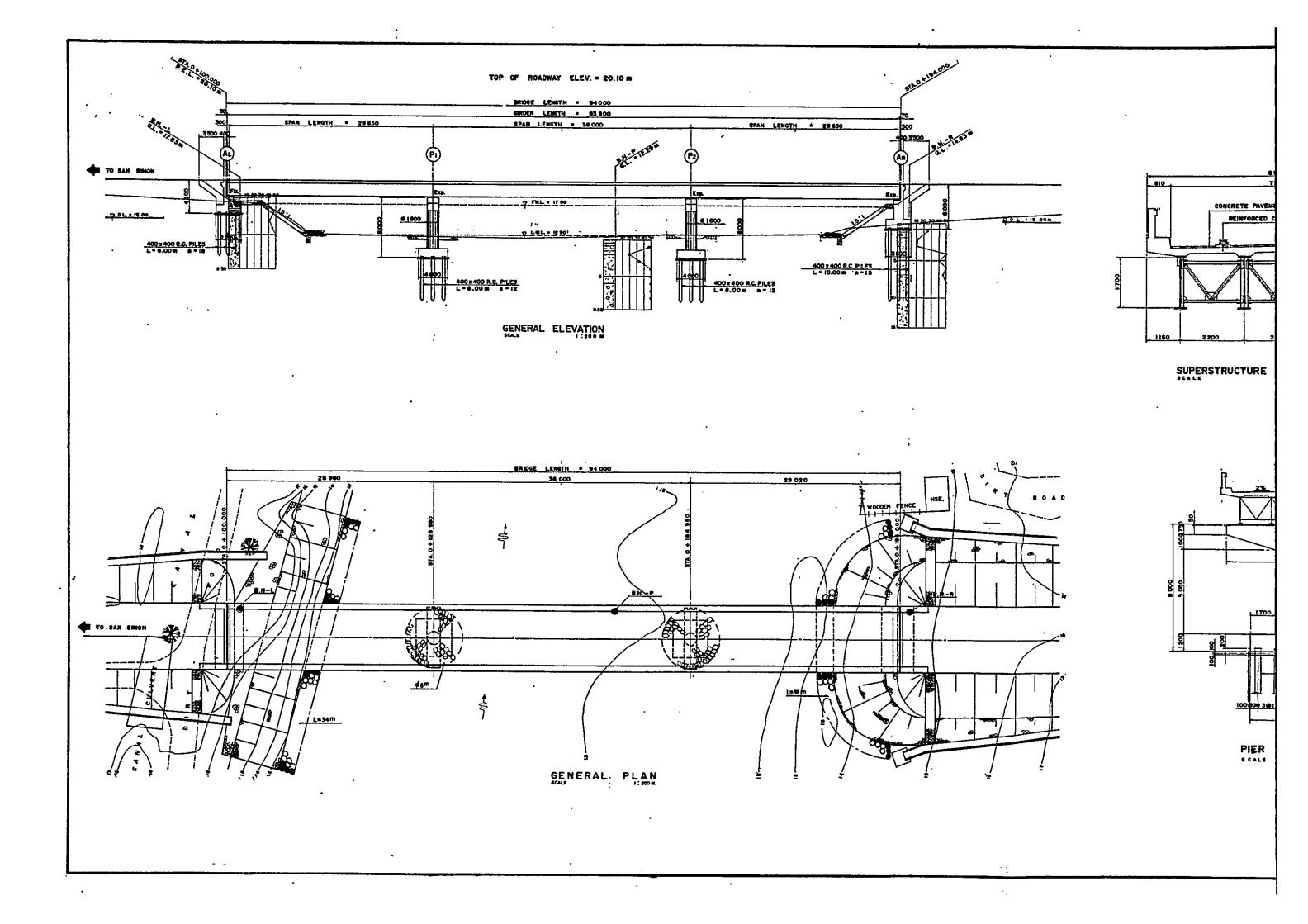
SUPERSTRUCTURE CROSS SECTION

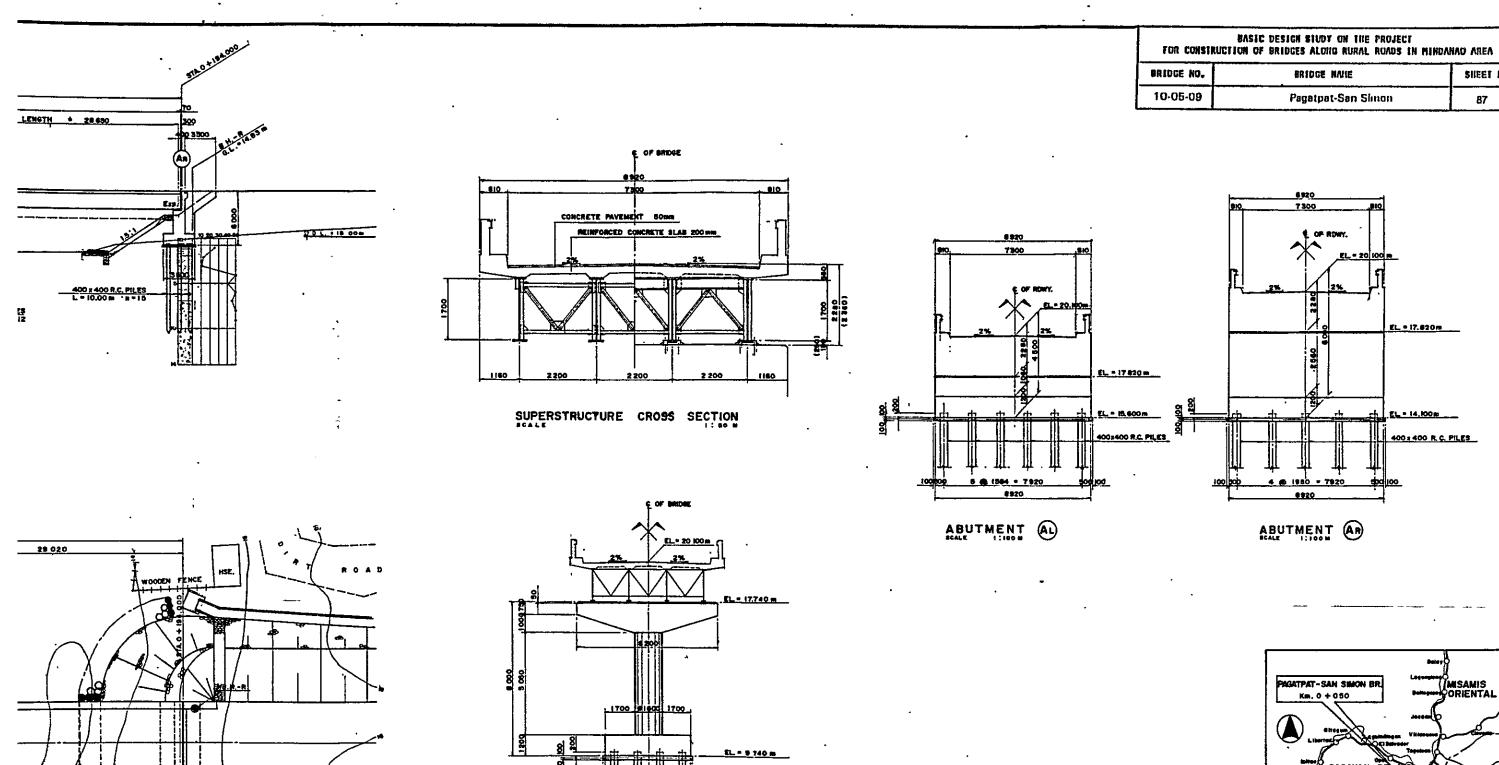




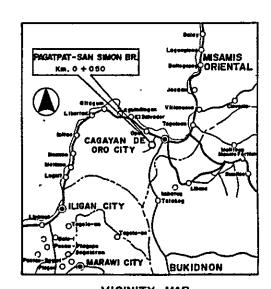
	BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA					
Γ	BRIDGE NO.	BRIDGE NAME	SHEET NO.			
Γ	10-02-04	Mago	86			







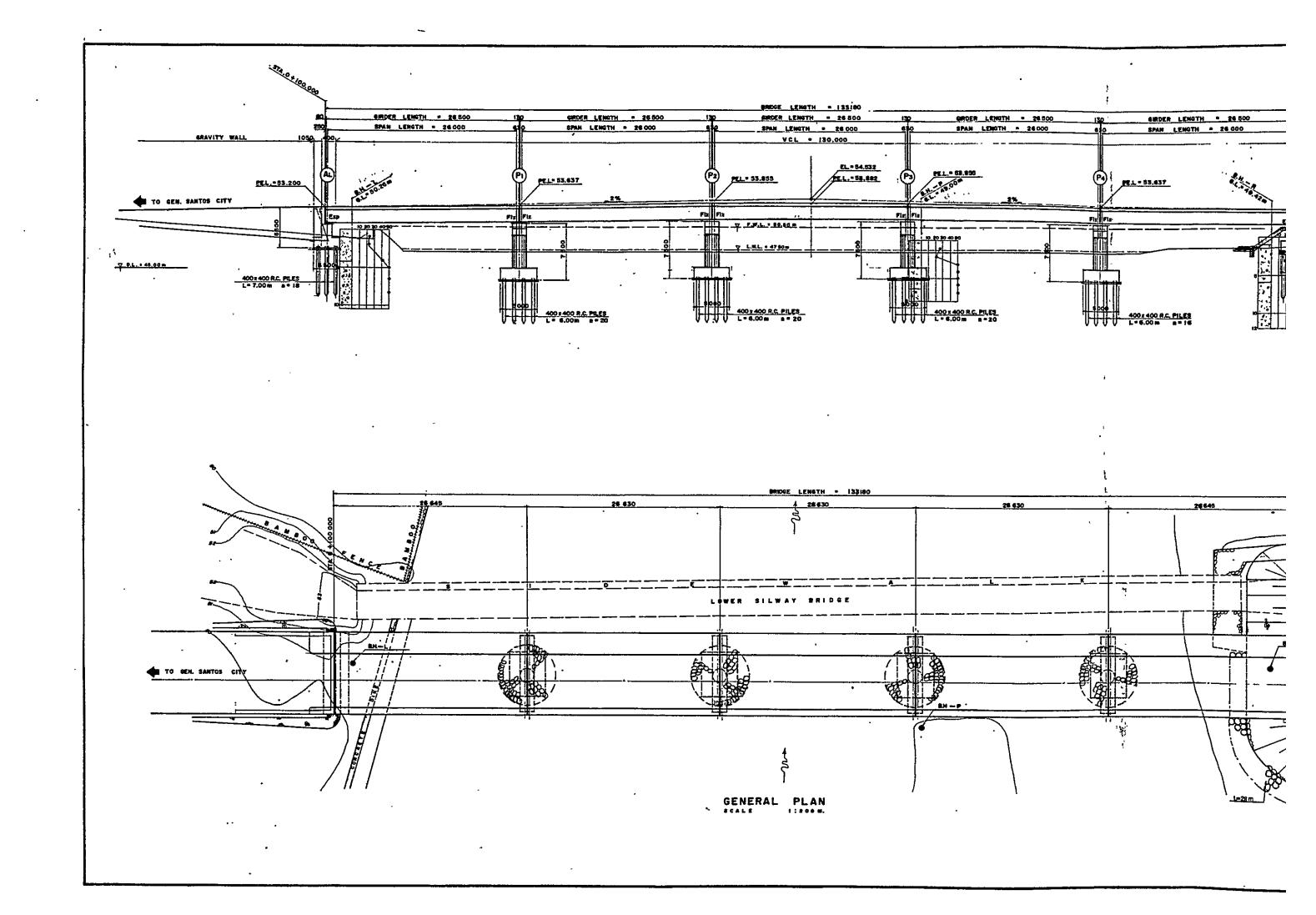
PIER

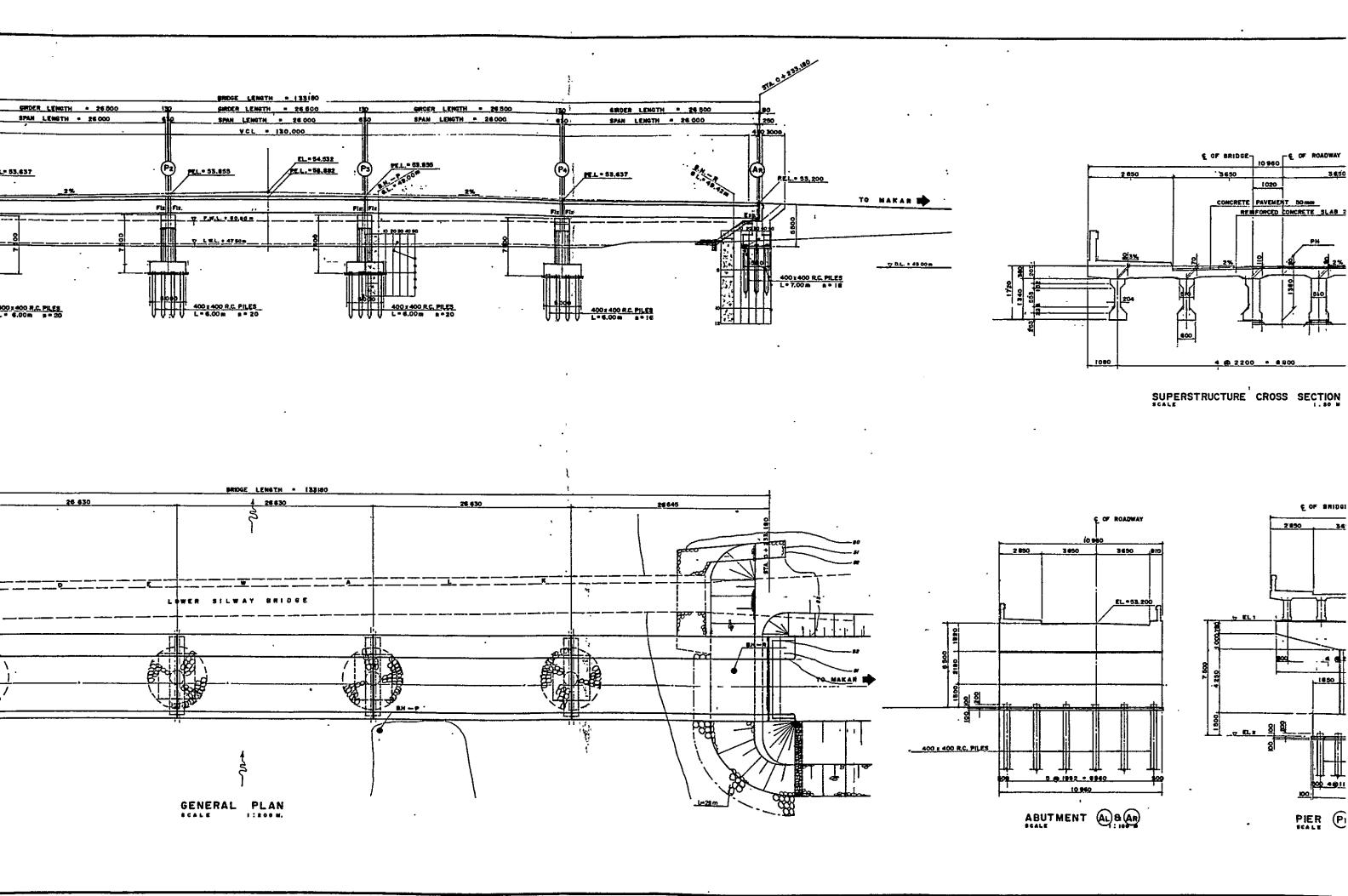


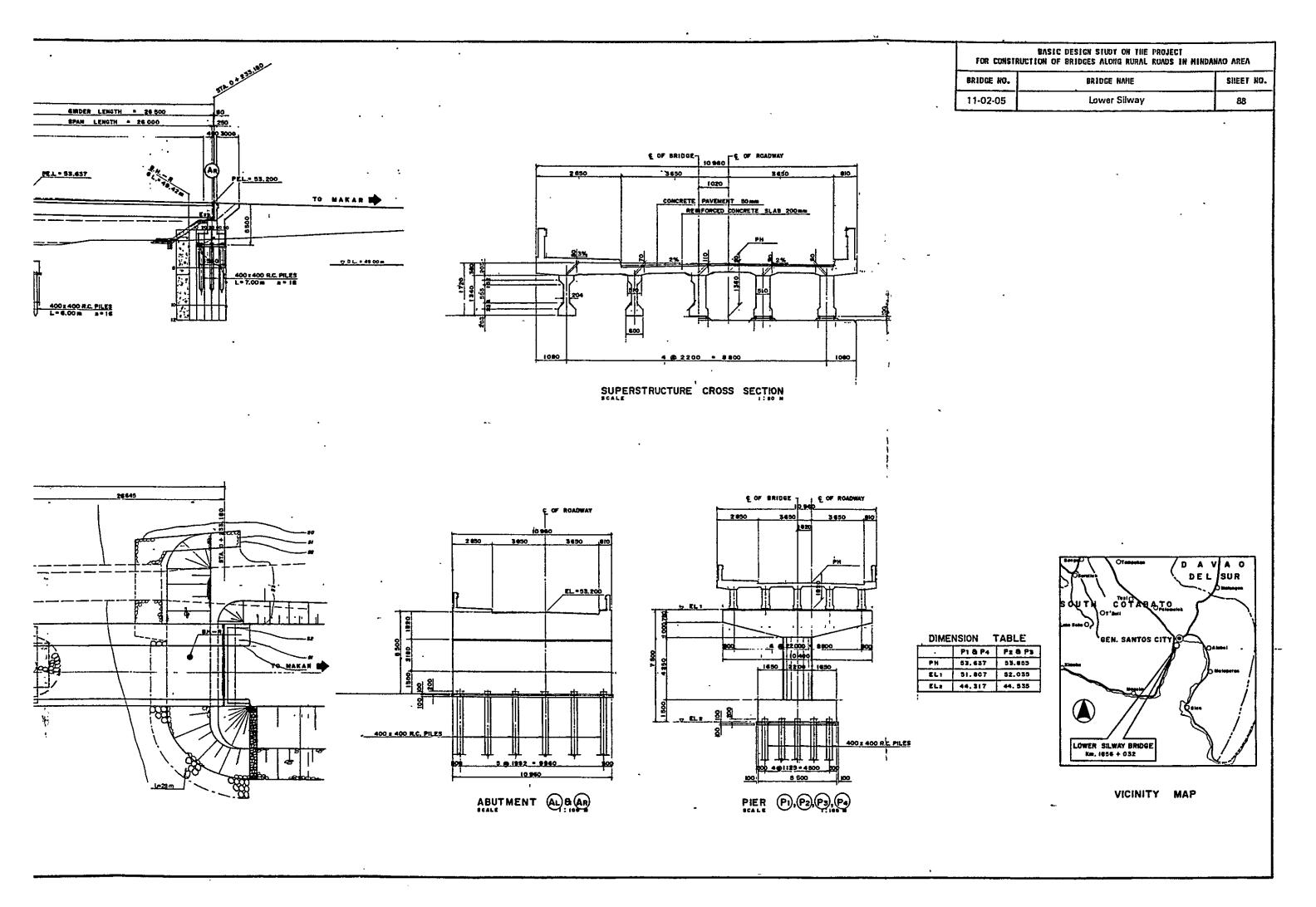
EL = 17.820m

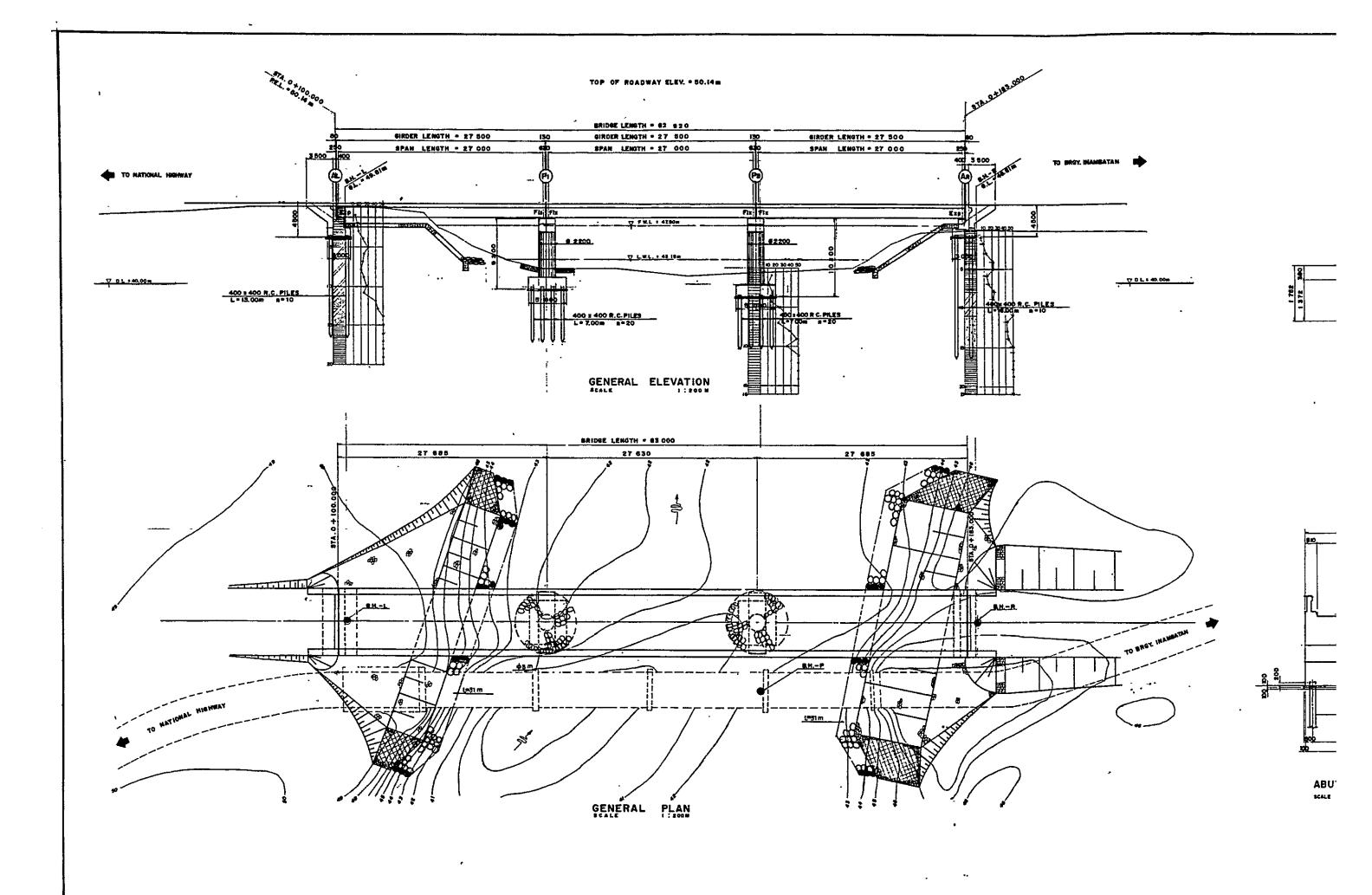
400 x 400 R.C. PILES

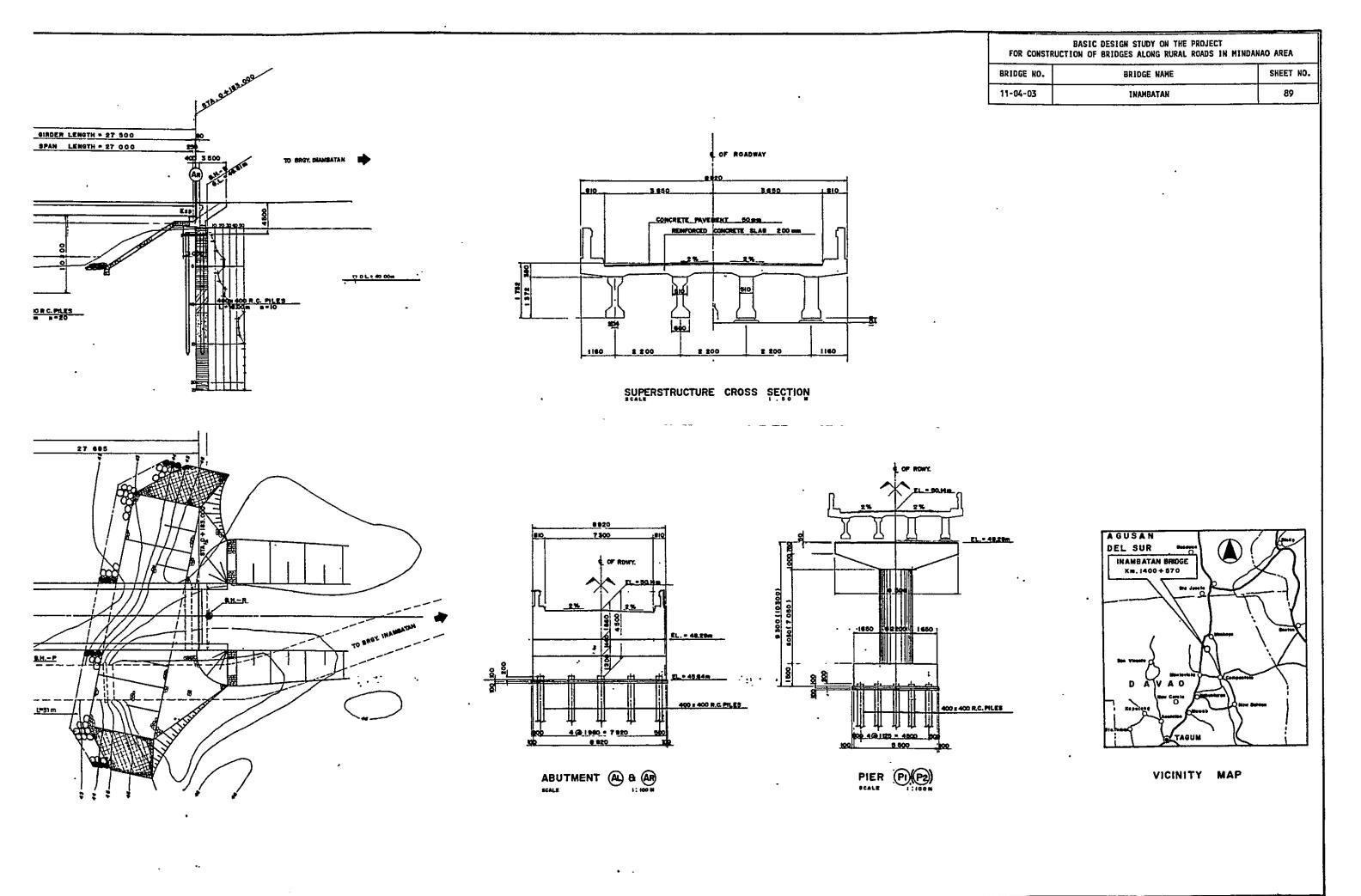
VICINITY MAP

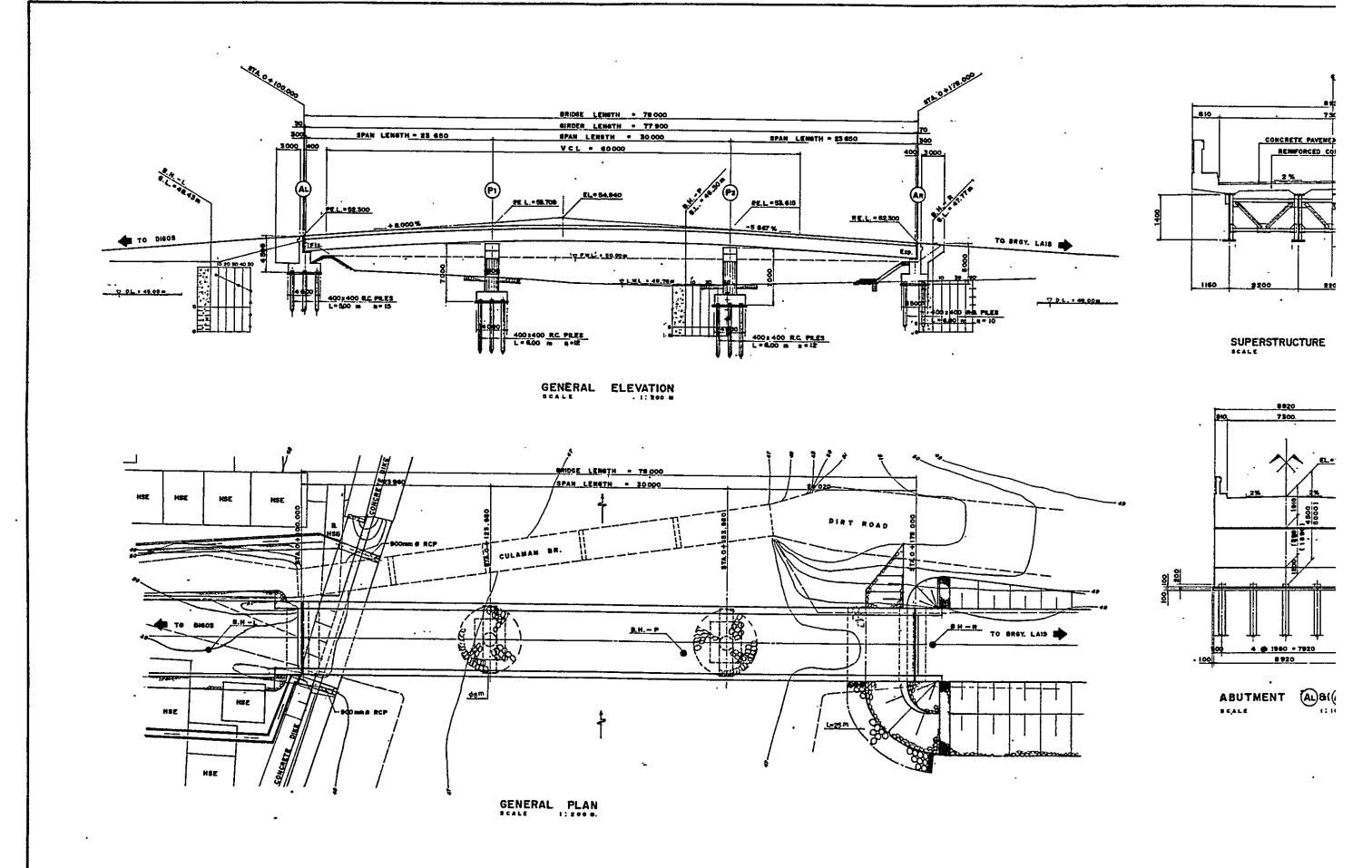


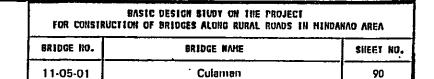


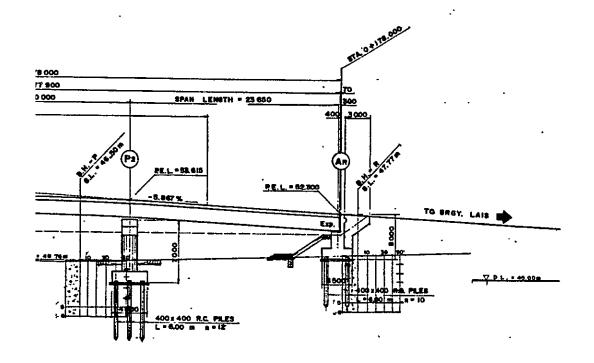








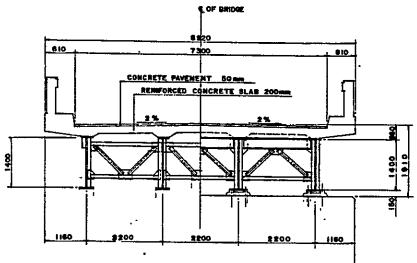




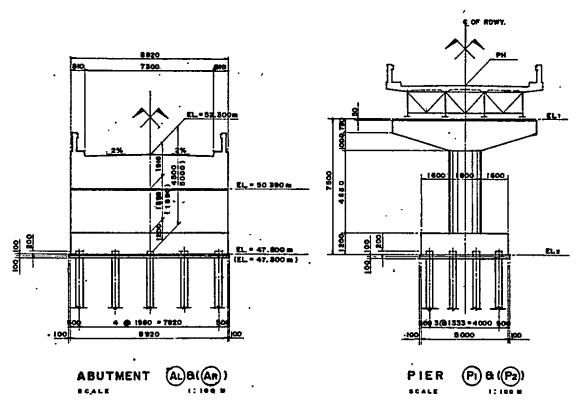
DIRT ROAD

TO BREY, LAIS

ATION

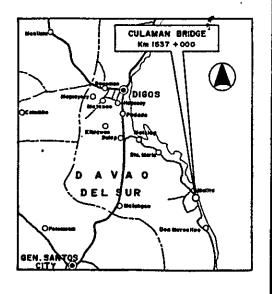


SUPERSTRUCTURE CROSS SECTION

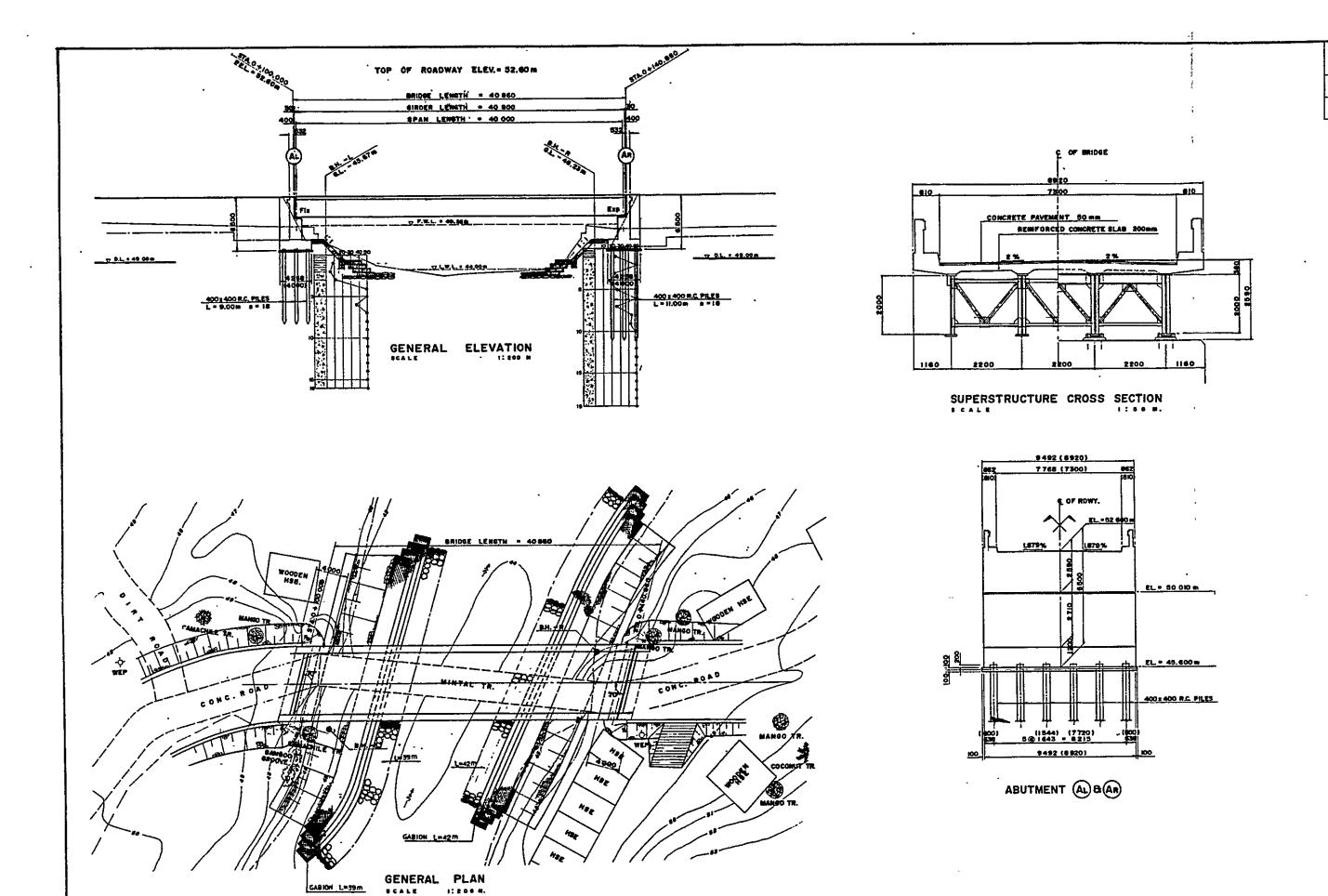


DIMENSION TABLE

	AL	AR	P1	Pz
PH	52.300	52:300	53,709	53.615
EL:	50.390	50.390	511798	51.705
EL±	47.800	45.800	44;289	44.205



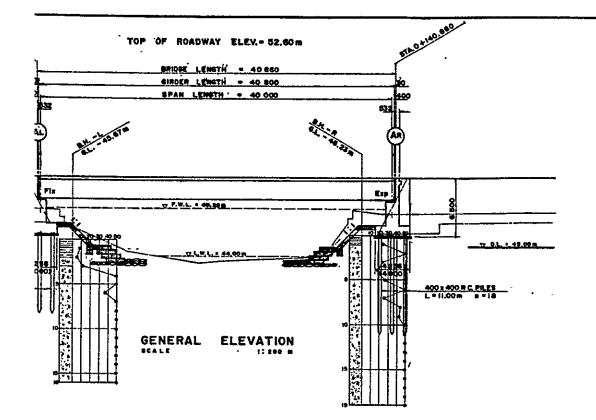
VICINITY MAP

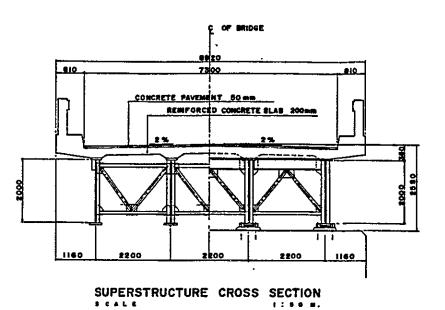


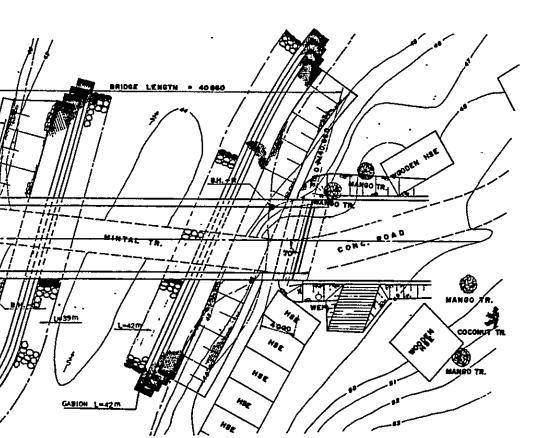
FOR CONSTRUCTIO

BRIDGE NO.

11-05-03





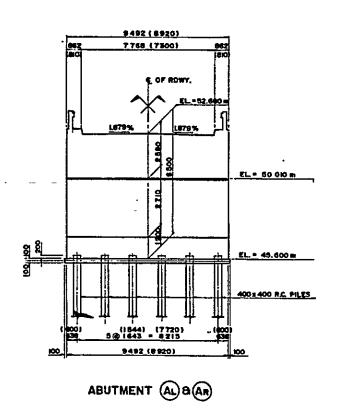


GENERAL PLAN

1; 2 0 0 M.

BCALE

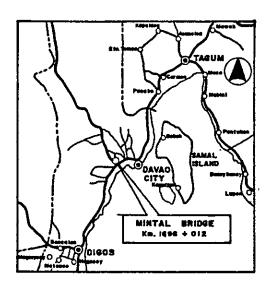
GARION L=39m



BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTION OF BRIDGES ALONG RURAL ROADS IN MINDANAO AREA

BRIDGE NO. BRIDGE NAME SHEET NO.

BRIDGE NO.	BRIDGE NAME	SHEET NO.
11-05-03	MINTAL	91



- VICINITY MAP

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	·	