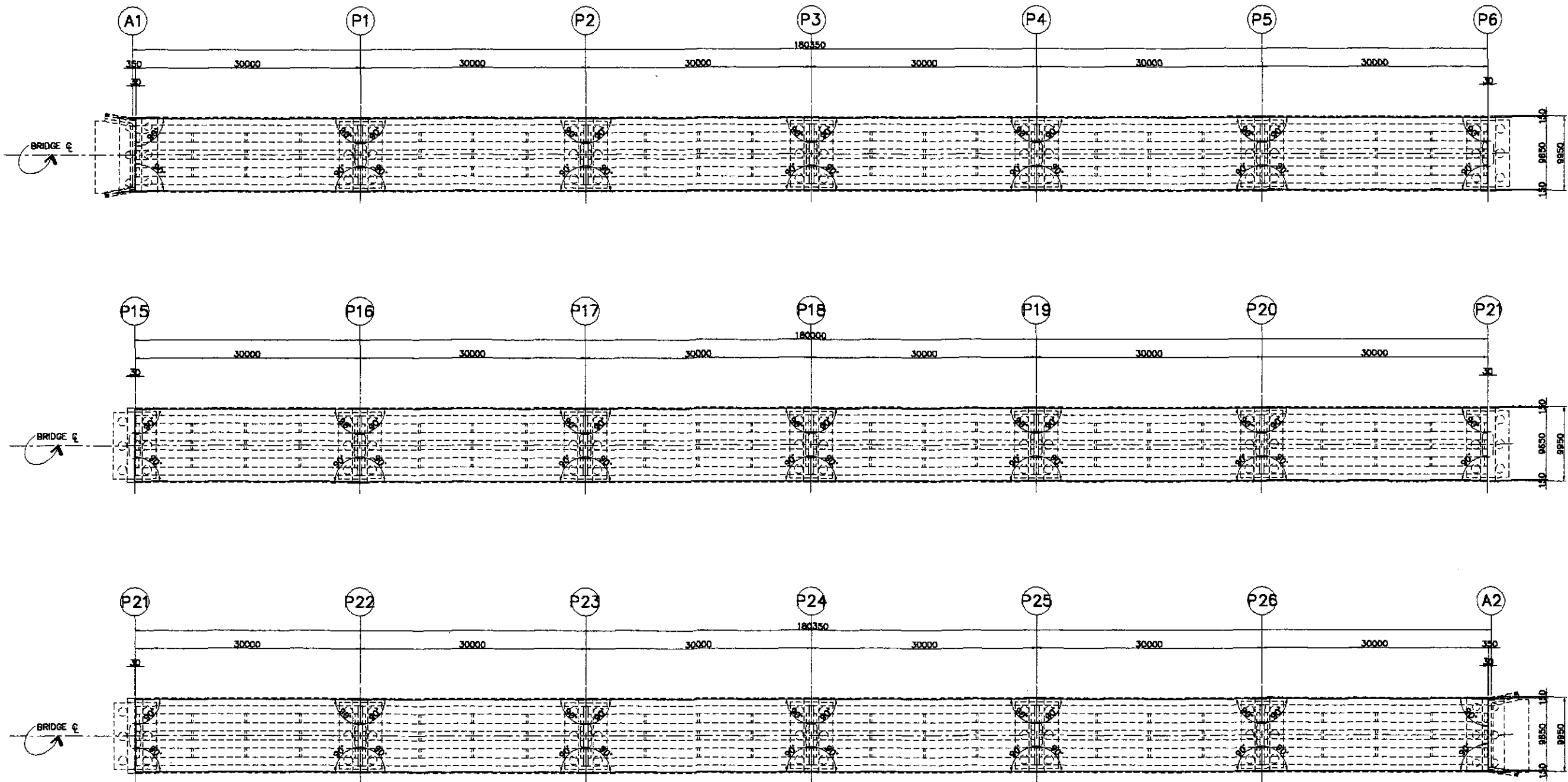


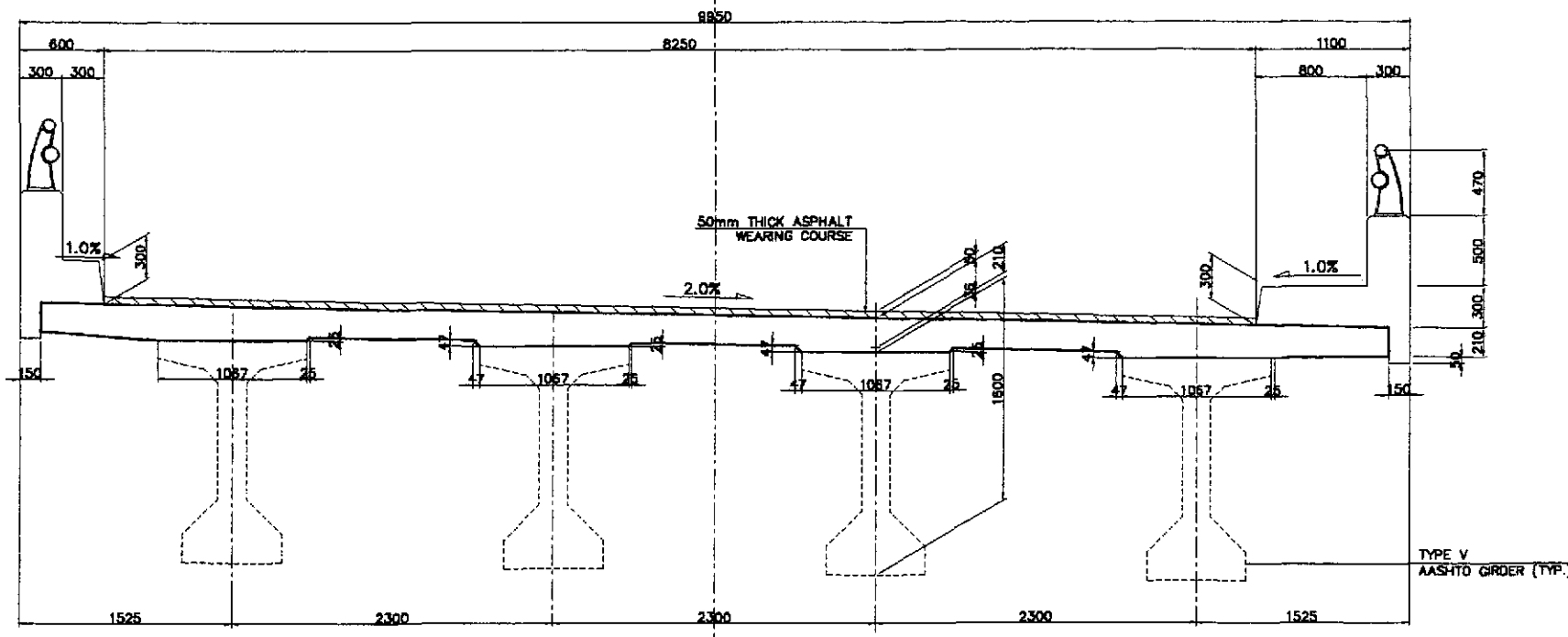
APPROACH SPANS

LAYOUT AND DIMENSIONS

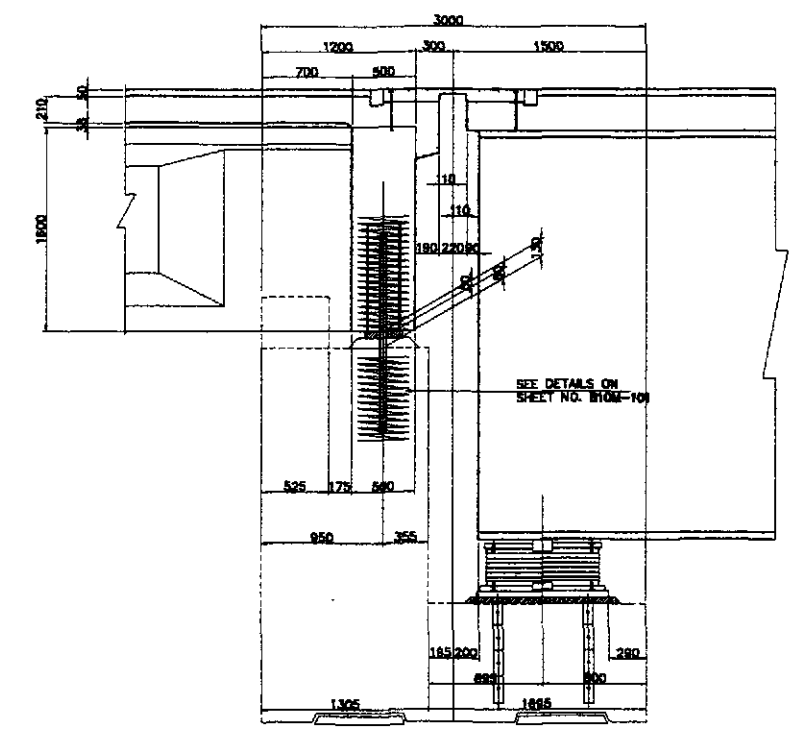


A DECK SLAB LAYOUT (ABUT. 1 to PIER 6 & PIER 15 to ABUT. 2) - 1 of 2
SCALE 1:300

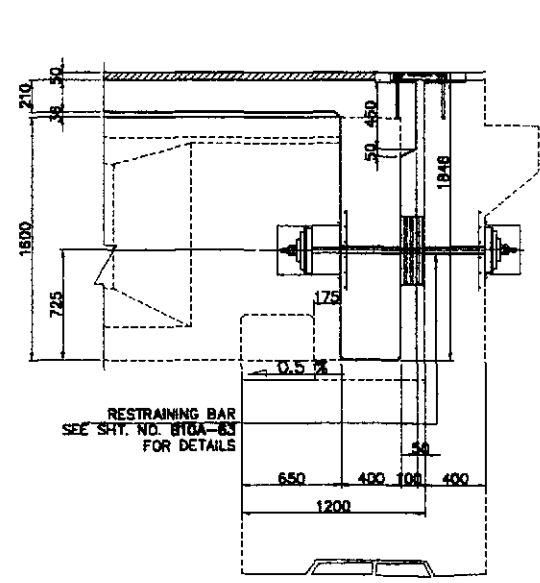
	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS					PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pilaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO.10 PAMPANGA RIVER BRIDGE DECK SLAB LAYOUT (ABUT. A1 to P6 & P15 to ABTU. A2)-1 of 2 (INITIAL STAGE)	SHEET NO. : B10A-01
	CHECKED	DATE	SIGNATURE		BUREAU OF DESIGN								
	SUBMITTED	DATE	SIGNATURE		OFFICE OF THE SECRETARY								
					Submitted By: DANILLO C. TRAJANO Project Director	Reviewed By: ADRIANO M. DORCAY Chief, Bridge Division	Recommended By: GILBERTO S. REYES Director IV (OIC)	Recommended By: (See cover sheet for Signature) MANUEL M. BONDAN Undersecretary	Approved By: (See cover sheet for Signature/Approval) SIMEON A. DATUMANONG Secretary				



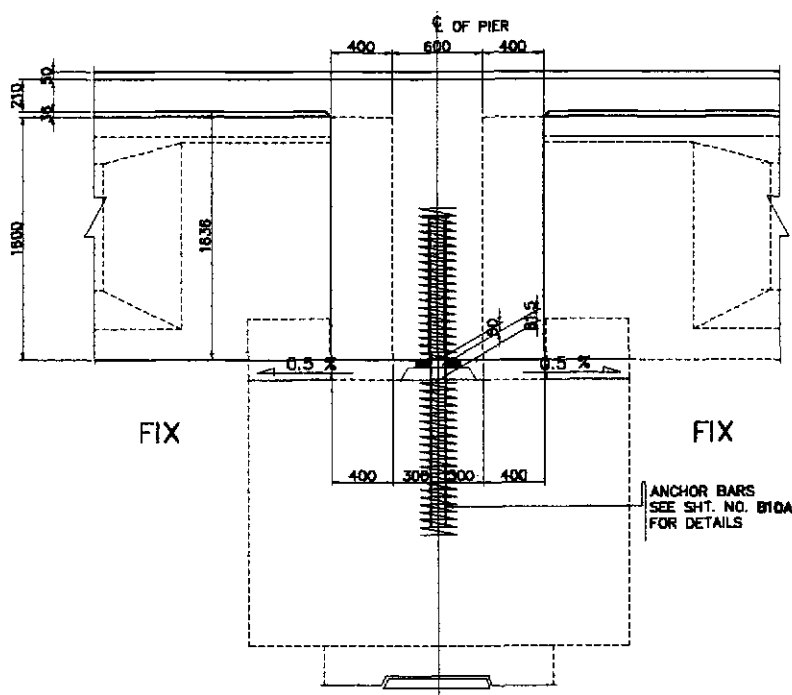
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SCALE 1:25



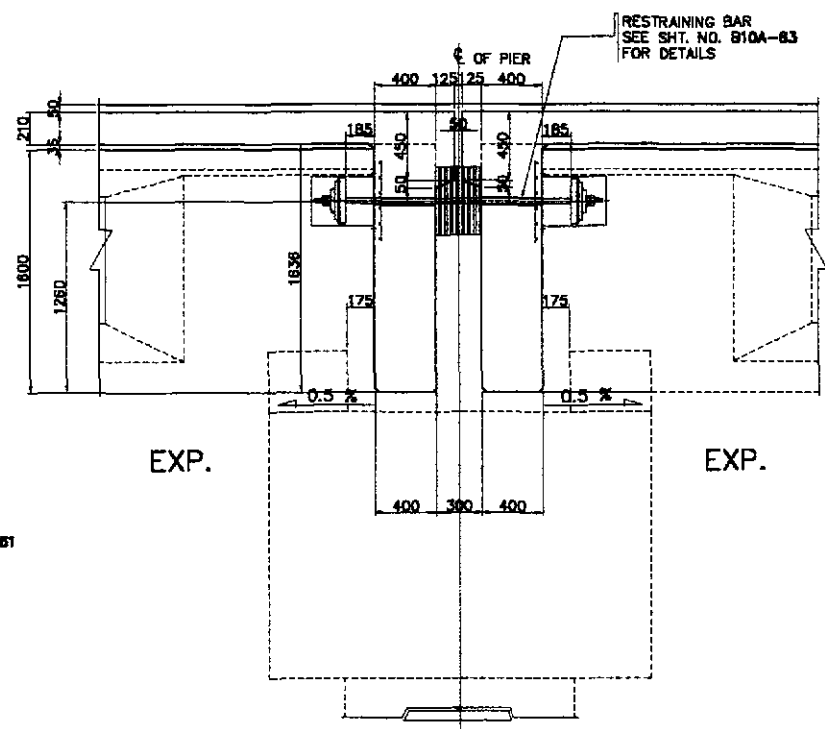
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SCALE 1:25



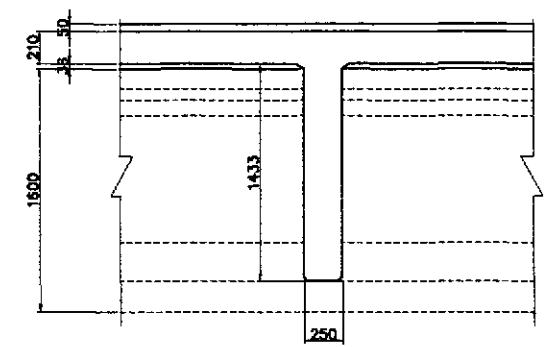
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SCALE 1:25



D SECTION @ END DIAPHRAGM (FIX-FIX PIERS)
SCALE 1:25



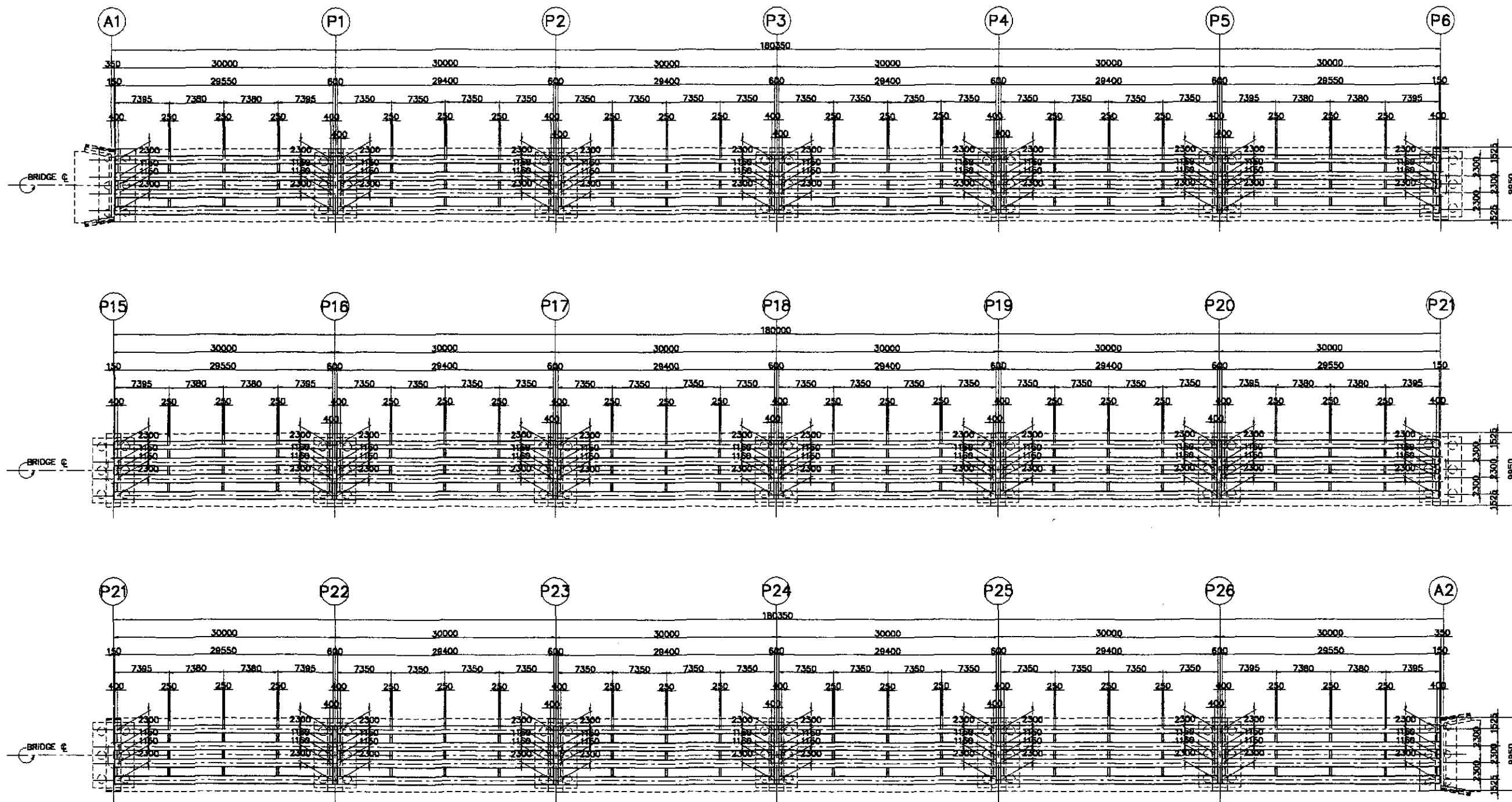
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SCALE 1:25



F SECTION @ INTERMEDIATE DIAPHRAGM
SCALE 1:25

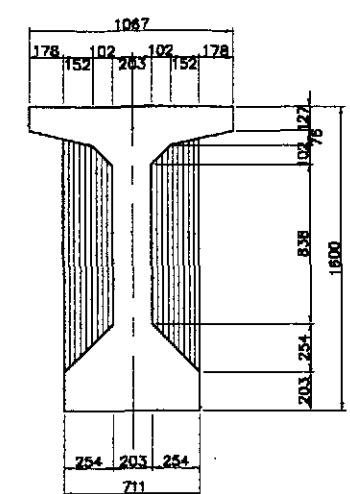
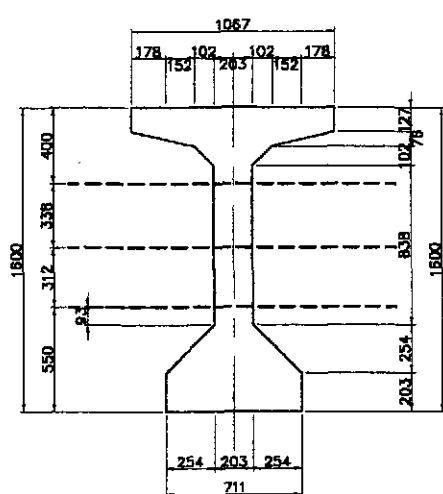
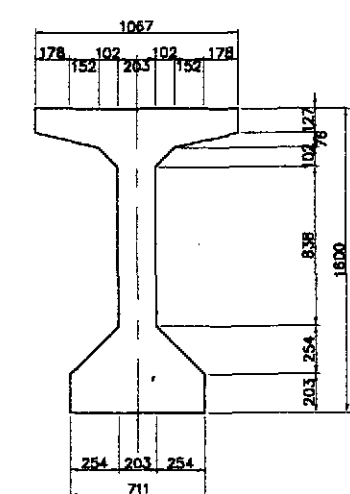
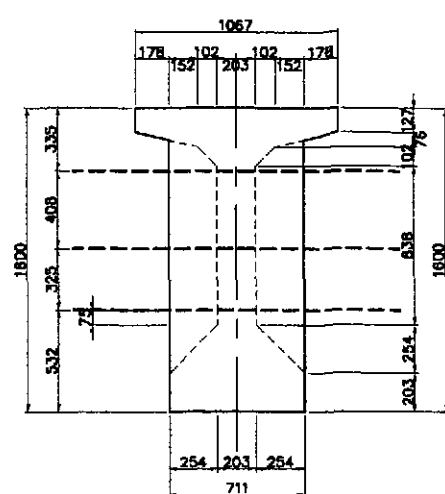
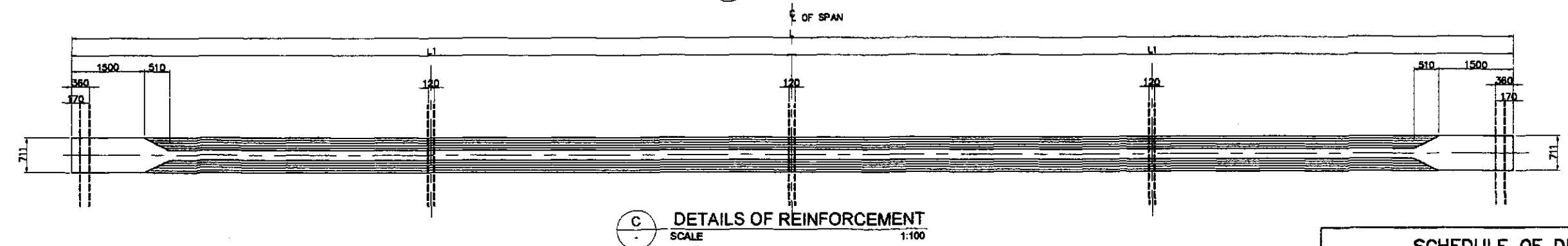
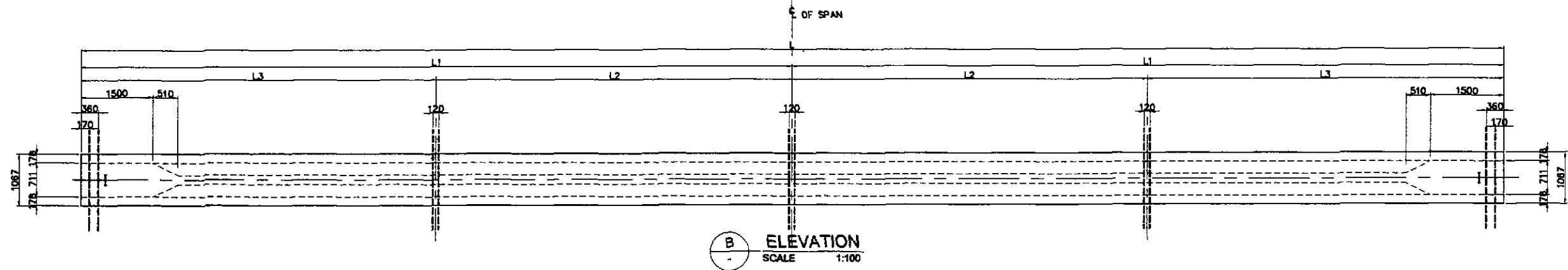
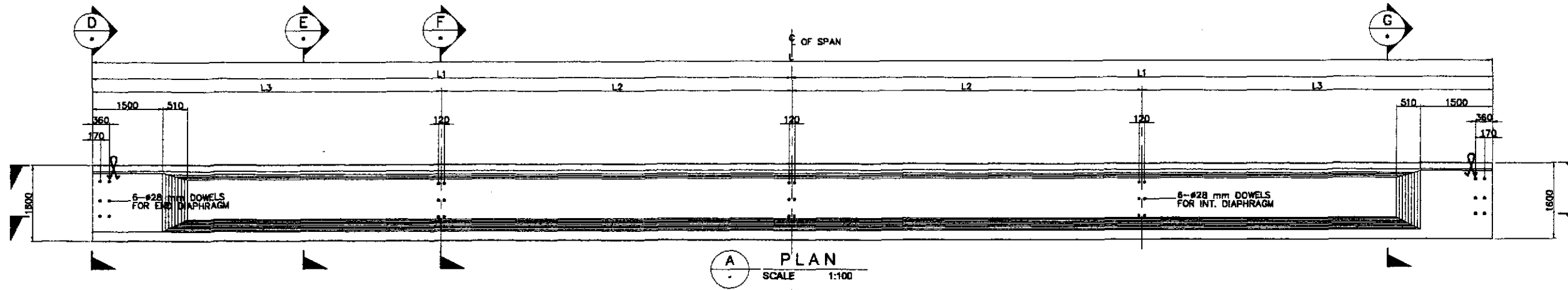
1 DECK SLAB LAYOUT (ABUT. 1 to PIER 6 & PIER 15 to ABUT. 2) - 2 of 2
SCALE 1:300

	<table border="1"> <tr> <th>DATE</th> <th>SIGNATURE</th> </tr> <tr> <td>DESIGNED 10/8/02</td> <td><i>F. M. SALAS</i></td> </tr> <tr> <td>CHECKED 10/17/02</td> <td><i>J. C. SANTOS</i></td> </tr> <tr> <td>SUBMITTED 10/19/02</td> <td><i>Team Leader</i></td> </tr> </table>	DATE	SIGNATURE	DESIGNED 10/8/02	<i>F. M. SALAS</i>	CHECKED 10/17/02	<i>J. C. SANTOS</i>	SUBMITTED 10/19/02	<i>Team Leader</i>	<table border="1"> <tr> <th colspan="4">REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</th> </tr> <tr> <td colspan="2">BUREAU OF DESIGN</td> <td colspan="2">OFFICE OF THE SECRETARY</td> </tr> <tr> <td>Submitted By:</td> <td>Reviewed By:</td> <td>Recommended By:</td> <td>Approved By:</td> </tr> <tr> <td>DANILLO C. TRAJANO Project Director</td> <td>ADRIANO M. DORCY Chief, Bridge Division</td> <td>GILBERTO S. REYES Director IV (D/C)</td> <td>MANUEL M. BOWDAN Undersecretary</td> </tr> </table>	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				BUREAU OF DESIGN		OFFICE OF THE SECRETARY		Submitted By:	Reviewed By:	Recommended By:	Approved By:	DANILLO C. TRAJANO Project Director	ADRIANO M. DORCY Chief, Bridge Division	GILBERTO S. REYES Director IV (D/C)	MANUEL M. BOWDAN Undersecretary	PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO.10 PAMPANGA RIVER BRIDGE DECK SLAB LAYOUT (ABUT. A1 to P6 & P15 to ABUT. A2)-2 of 2 (INITIAL STAGE)	SHEET NO. : B10A-02
	DATE	SIGNATURE																												
	DESIGNED 10/8/02	<i>F. M. SALAS</i>																												
CHECKED 10/17/02	<i>J. C. SANTOS</i>																													
SUBMITTED 10/19/02	<i>Team Leader</i>																													
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS																														
BUREAU OF DESIGN		OFFICE OF THE SECRETARY																												
Submitted By:	Reviewed By:	Recommended By:	Approved By:																											
DANILLO C. TRAJANO Project Director	ADRIANO M. DORCY Chief, Bridge Division	GILBERTO S. REYES Director IV (D/C)	MANUEL M. BOWDAN Undersecretary																											



A GIRDER LAYOUT PLAN (ABUT. 1 to PIER 6 & PIER 15 to ABUT. 2)
SCALE 1:300

	DESIGNED	DATE	SIGNATURE	<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>	<p>PROJECT AND LOCATION :</p> <p>THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses)</p> <p>CABANATUAN BYPASS - CONTRACT PACKAGE III</p>	<p>SCALE :</p> <p>AS SHOWN</p> <p>FULL SIZE A1</p>	<p>SHEET CONTENTS :</p> <p>BRIDGE NO.10 PAMPANGA RIVER BRIDGE GIRDER LAYOUT PLAN (ABUT. A1 to P6 & P15 to ABUT. A2) (INITIAL STAGE)</p>	<p>SHEET NO. :</p> <p>B10A-03</p>		
	CHECKED	10/17/02	<i>[Signature]</i>						<p>FURL - PMO</p> <p>Submitted By: DANILDO C. TRAJANO Project Director</p>	<p>OFFICE OF THE SECRETARY</p> <p>Approved By: SIMEON A. DATUMANONG Secretary</p>
	SUBMITTED	10/19/02	<i>[Signature]</i>						<p>BUREAU OF DESIGN</p> <p>Reviewed By: ADRIANO M. DORAY Chief, Bridge Division</p> <p>Recommended By: GILBERTO S. REYES Director IV (BIC)</p>	<p>Manuel M. BONGAN Undersecretary</p>



AASHTO GIRDER TYPE - V LAYOUT & DIMENSIONS
SCALE AS SHOWN

SCHEDULE OF DIMENSIONS				
LOCATION	L	L1	L2	L3
ABUT. 1 to PIER 1	29550	14775	7380	7395
PIER 1 to PIER 2	29400	14700	7350	7350
PIER 2 to PIER 3	29400	14700	7350	7350
PIER 3 to PIER 4	29400	14700	7350	7350
PIER 4 to PIER 5	29400	14700	7350	7350
PIER 5 to PIER 6	29400	14775	7380	7395
PIER 15 to PIER 16	29400	14775	7380	7395
PIER 16 to PIER 17	29400	14700	7350	7350
PIER 17 to PIER 18	29400	14700	7350	7350
PIER 18 to PIER 19	29400	14700	7350	7350
PIER 19 to PIER 20	29400	14700	7350	7350
PIER 20 to PIER 21	28550	14775	7380	7395
PIER 21 to PIER 22	29550	14775	7380	7395
PIER 22 to PIER 23	29400	14700	7350	7350
PIER 23 to PIER 24	29400	14700	7350	7350
PIER 24 to PIER 25	29400	14700	7350	7350
PIER 25 to PIER 26	29400	14700	7350	7350
PIER 26 to ABUT. 2	28550	14775	7380	7395

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JAPAN INTERNATIONAL COOPERATION AGENCY

KATAHIRA & ENGINEERS INTERNATIONAL
YEO YACHYO ENGINEERING CO., LTD.

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Submitted By: **DANILO C. TRAJANO**, Project Director
Reviewed By: **ADRIANO M. DORCOY**, Chief, Bridge Division
Recommended By: **GILBERTO S. REYES**, Director IV (D/C)

Office of the Secretary
Recommended By: **MANUEL M. BONOAN**, Undersecretary
Approved By: **SIMEON A. DATUMANNONG**, Secretary

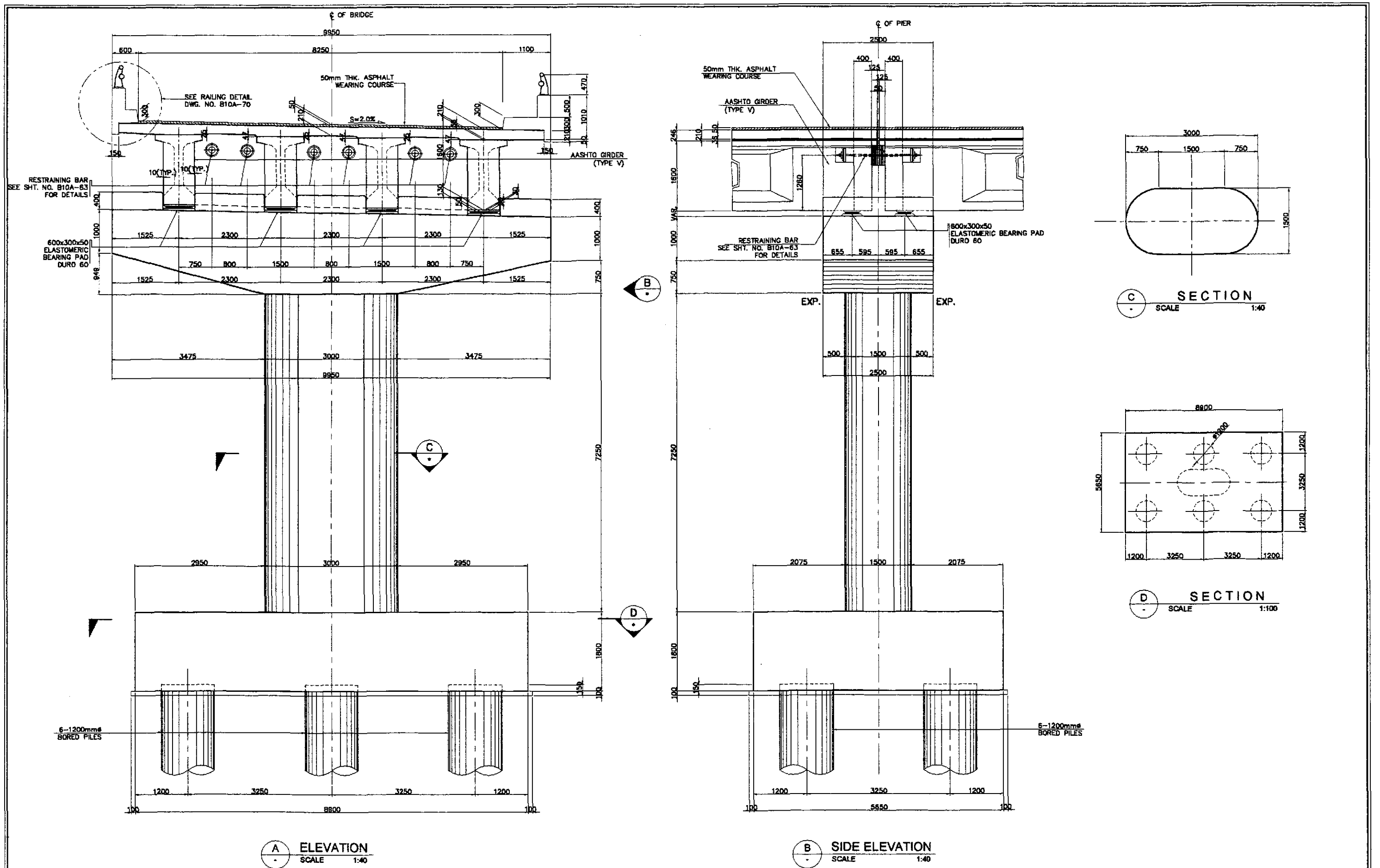
PROJECT AND LOCATION :
THE DETAILED DESIGN STUDY ON
UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN-PHILIPPINE HIGHWAY
(Pilaridel, Cabanatuan and San Jose Bypasses)

CABANATUAN BYPASS - CONTRACT PACKAGE III

SCALE : AS SHOWN / FULL SIZE A1

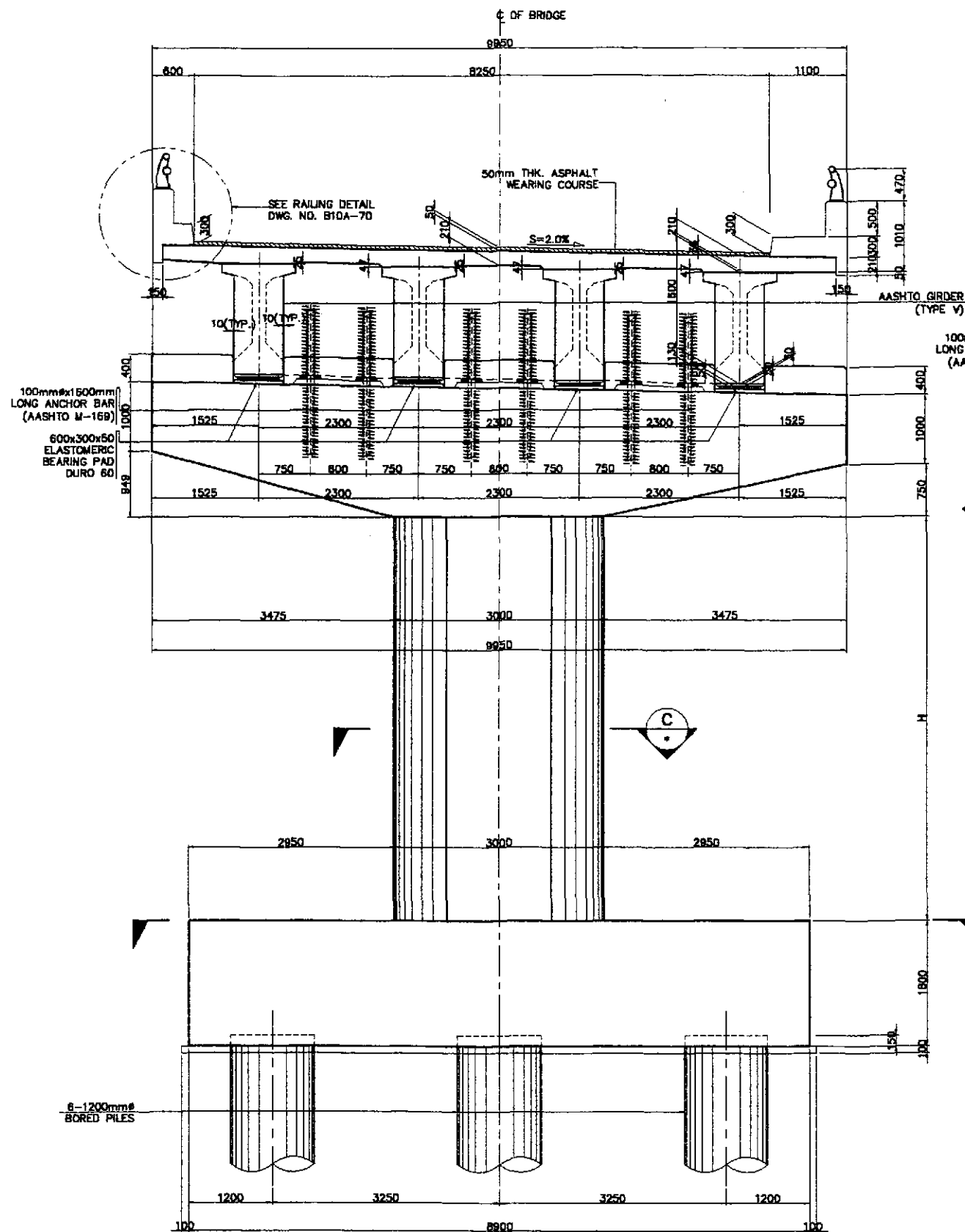
SHEET CONTENTS : BRIDGE NO.10 PAMPANGA RIVER BRIDGE
AASHTO GIRDER TYPE - V
LAYOUT & DIMENSIONS
(INITIAL STAGE)

SHEET NO. : **B10A-04**

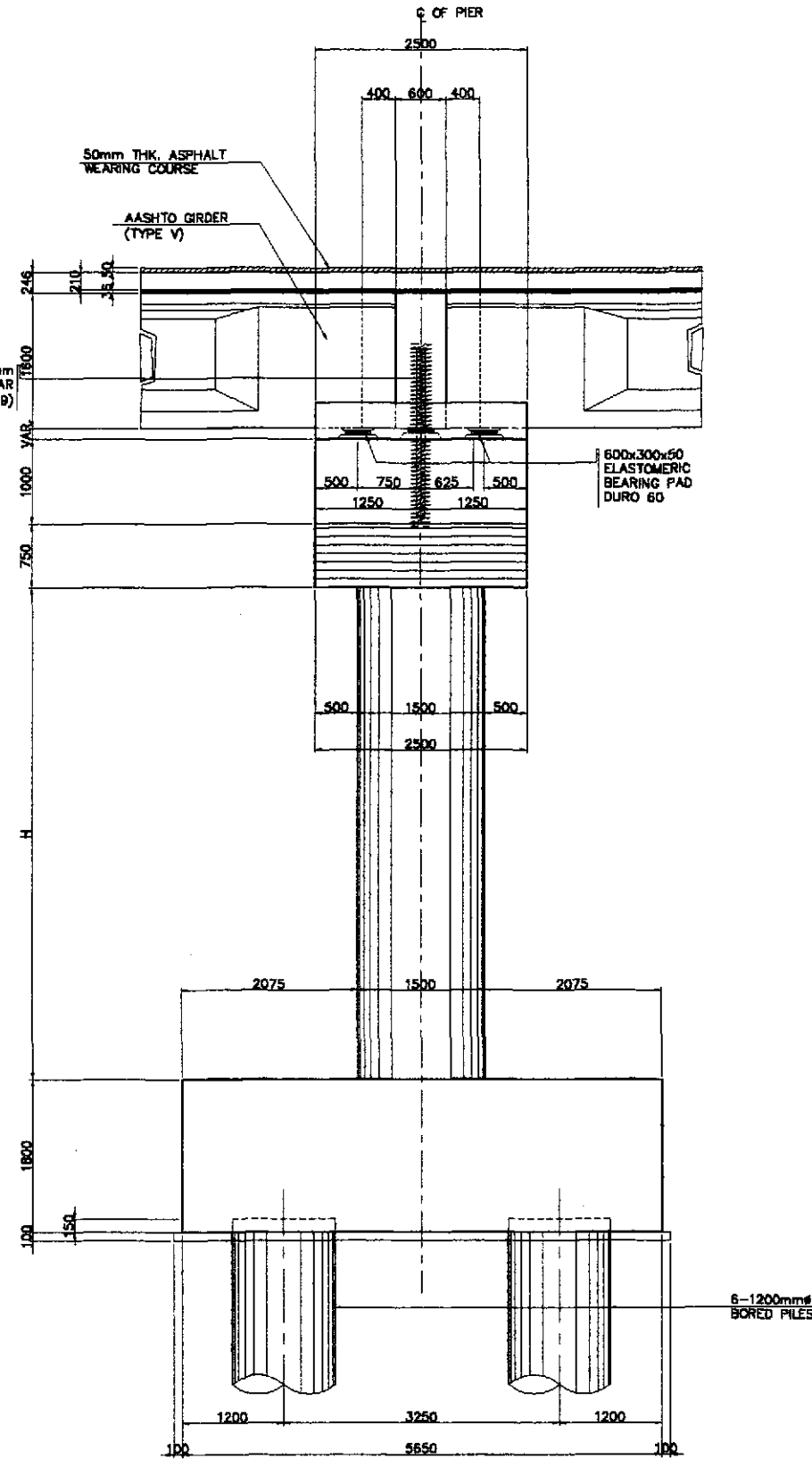


1 PIER LAYOUT & DIMENSIONS (P21)
SCALE AS SHOWN

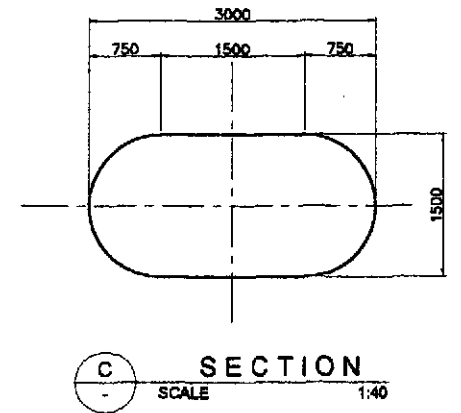
	DESIGNED	DATE	SIGNATURE	<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>	<p>PROJECT AND LOCATION :</p> <p>THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)</p> <p>CABANATUAN BYPASS - CONTRACT PACKAGE III</p>	<p>SCALE :</p> <p>AS SHOWN</p> <p>FULL SIZE A1</p>	<p>SHEET CONTENTS :</p> <p>BRIDGE NO.10 PAMPANGA RIVER BRIDGE PIER LAYOUT & DIMENSIONS (P21) (INITIAL STAGE)</p>	<p>SHEET NO. :</p> <p>B10A-05</p>
	CHECKED	10/17/02	F. M. SALAS					
	SUBMITTED	10/19/02	J. S. SANTIAGO					
			M. B. BARRERA					
			<p>Submitted By: DANILLO G. TRAJANO Project Director</p> <p>Reviewed By: ADRIANO M. DORCOY Chief, Bridge Division</p> <p>Recommended By: GILBERTO S. REYES Director IV (OC)</p> <p>Recommended By: MANUEL M. BONDAN Undersecretary</p> <p>Approved By: SINEON A. DATUMANONG Secretary</p>					



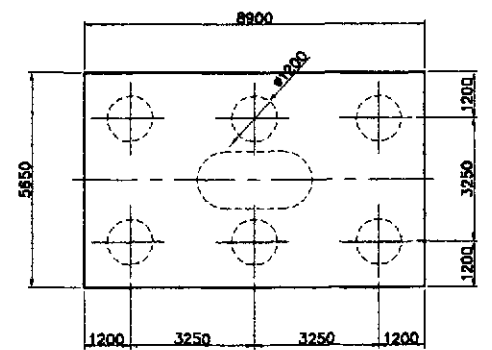
A ELEVATION
SCALE 1:40



B SIDE ELEVATION
SCALE 1:40



C SECTION
SCALE 1:40



D SECTION
SCALE 1:100

SCHEDULE OF DIMENSIONS			
PIER	H (mm)	BORED PILE	
		N (PCS)	LENGTH (mm)
P1 - P5	5250	6	19000
P16 - P20	7250	6	18000
P22 - P26			

1 PIER LAYOUT & DIMENSIONS (P1 to P5, P16 to P20 & P22 to P26)
SCALE AS SHOWN

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JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL
YEO YACHIYO ENGINEERING CO., LTD.

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

DESIGNED: 10/8/02 F. M. SANS	DATE: 10/8/02	SIGNATURE: [Signature]
CHECKED: 10/17/02 [Signature]	DATE: 10/17/02	SIGNATURE: [Signature]
SUBMITTED: 10/17/02 [Signature]	DATE: 10/17/02	SIGNATURE: [Signature]

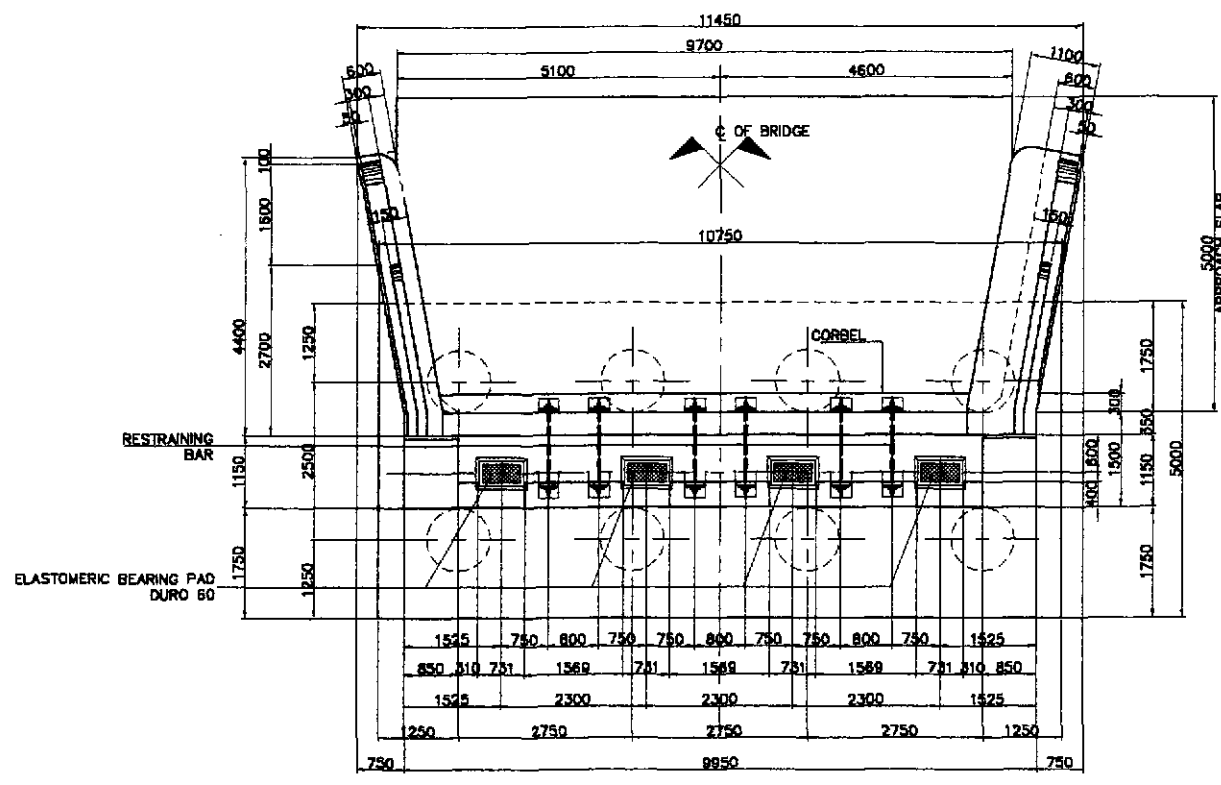
Submitted By: DANILLO C. TRAJANO, Project Director
Reviewed By: ADRIANO M. DORROY, Chief, Bridge Division
Recommended By: GILBERTO S. REYES, Director IV (OC)
Approved By: MANUEL M. BONDAN, Undersecretary
Approved By: SIMEON A. DATUMAWONG, Secretary

PROJECT AND LOCATION :
THE DETAILED DESIGN STUDY ON
UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN-PHILIPPINE HIGHWAY
(Plaridel, Cabanatuan and San Jose Bypasses)
CABANATUAN BYPASS - CONTRACT PACKAGE III

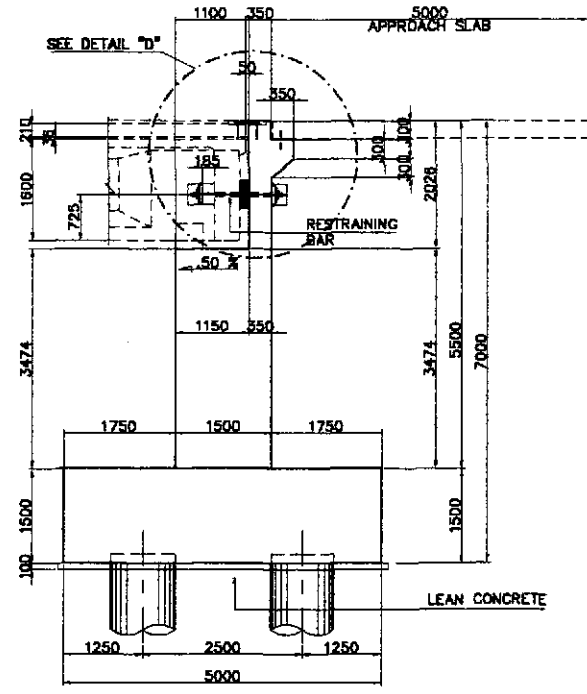
SCALE :
AS SHOWN
FULL SIZE A1

SHEET CONTENTS :
BRIDGE NO.10 PAMPANGA RIVER BRIDGE
PIER LAYOUT & DIMENSIONS
(P1 to P5, P16 to P20 & P22 to P26)
(INITIAL STAGE)

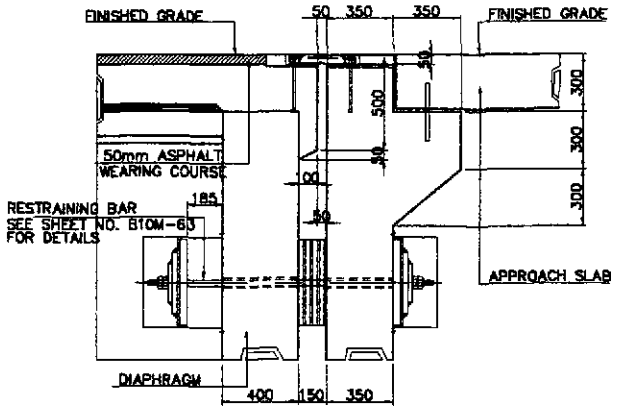
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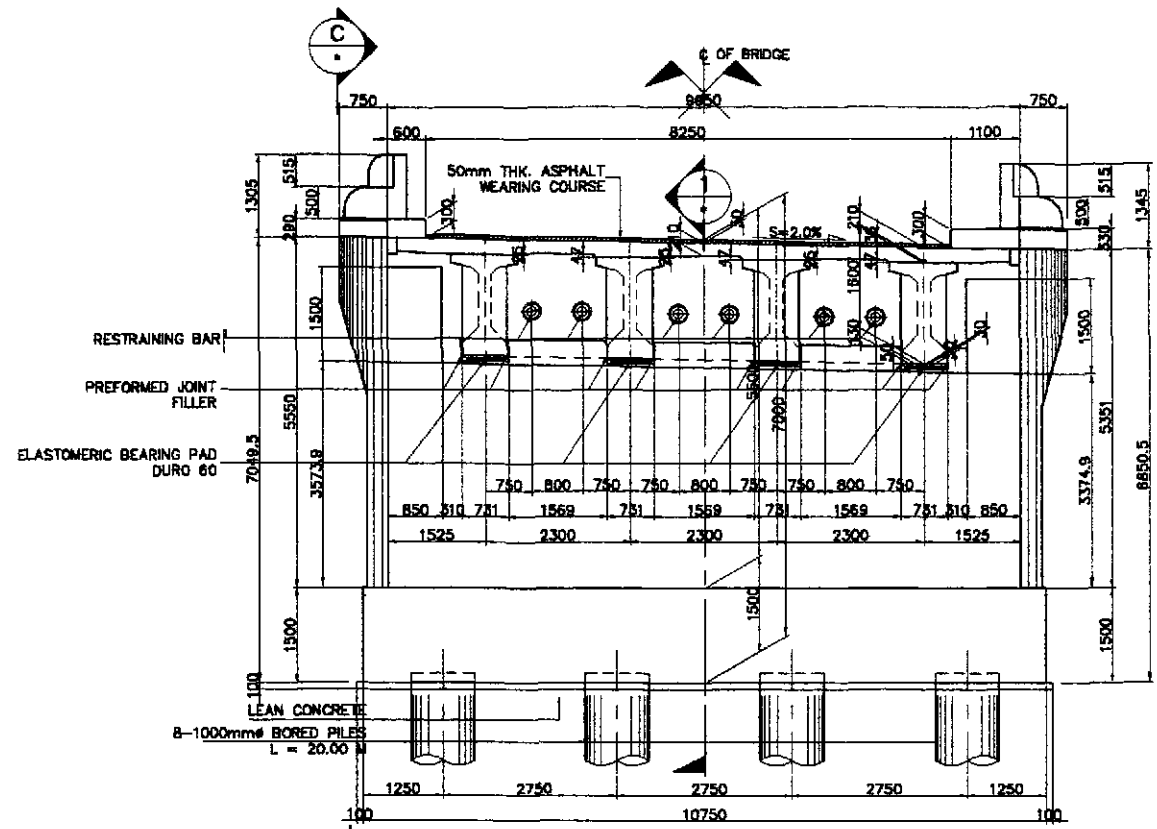
A PLAN
SCALE 1:120



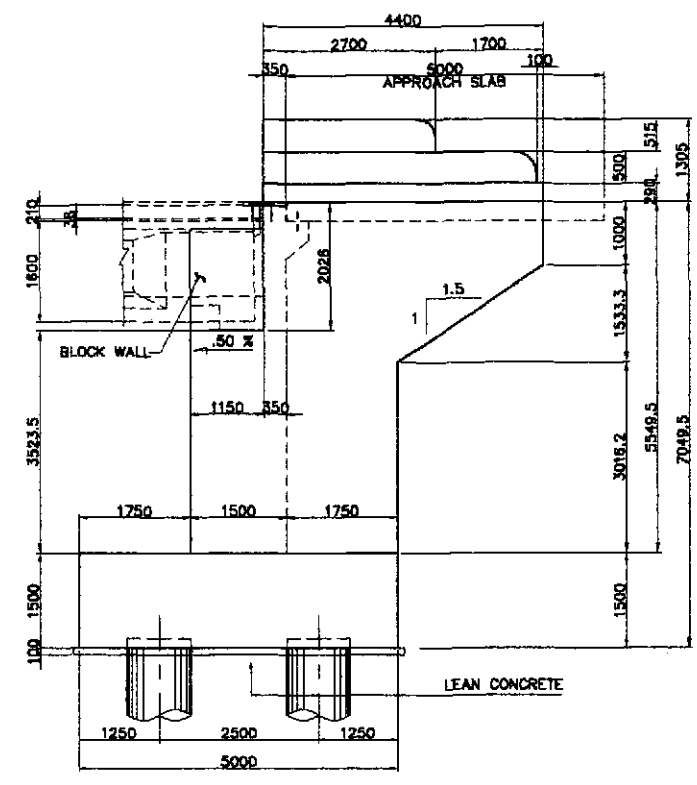
1 SECTION
SCALE 1:120



D DETAIL
SCALE 1:20



B ELEVATION
SCALE 1:120



C SIDE ELEVATION
SCALE 1:120

1 ABUTMENT LAYOUT & DIMENSIONS (ABUT. A1 & A2)
SCALE AS SHOWN

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JAPAN INTERNATIONAL COOPERATION AGENCY

KATAHIRA & ENGINEERS INTERNATIONAL
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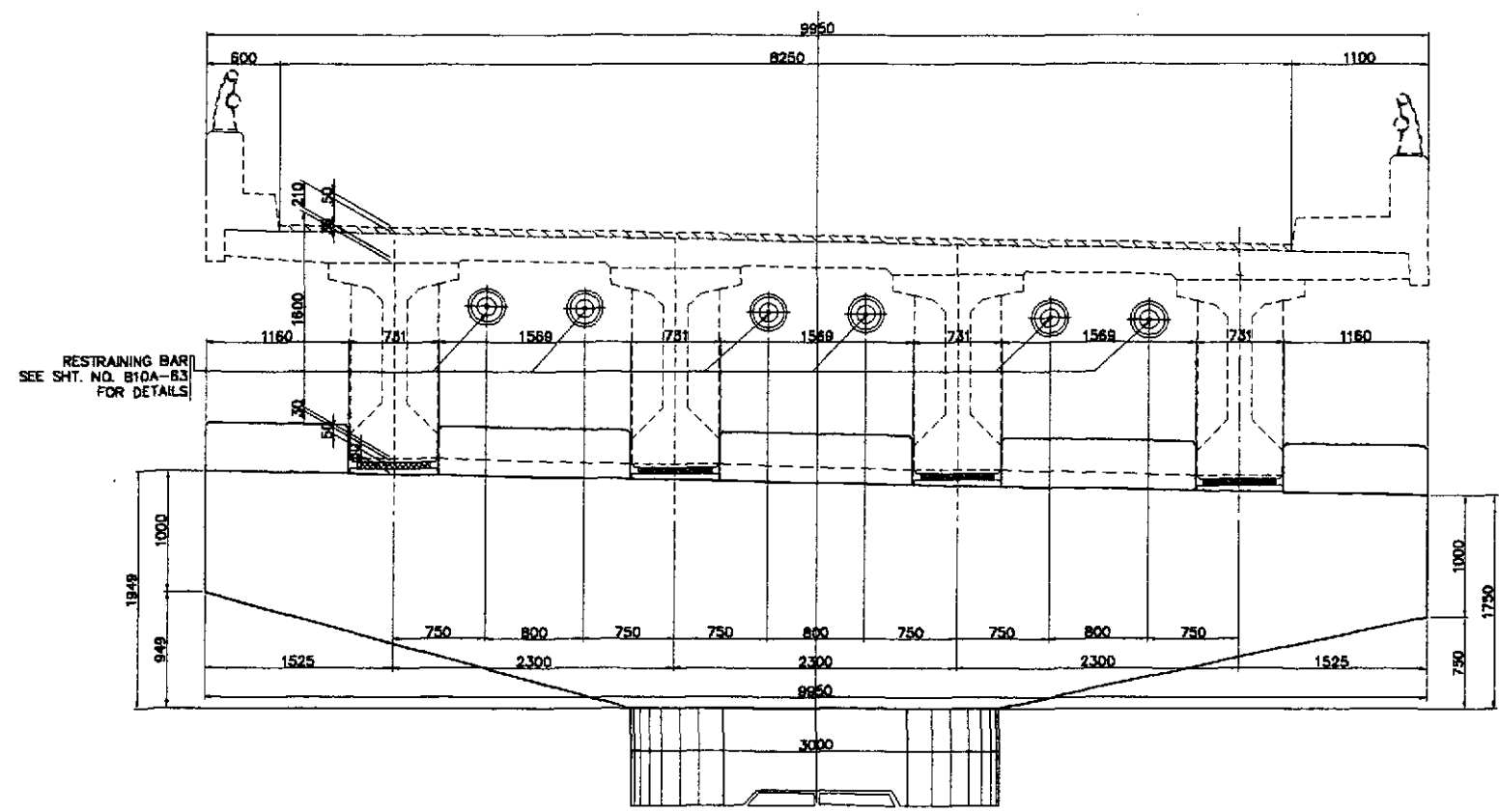
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10/28/02		F. M. SALAS	BUREAU OF DESIGN OFFICE OF THE SECRETARY			
CHECKED	10/11/02	J. SANTOS				
SUBMITTED	10/19/02	M. RIVERA				
Submitted By: DANILO C. TRAJANO Project Director			Reviewed By: ADRIANO M. DORON Chief, Bridge Division		Recommended By: GILBERTO S. REYES Director IV (OC)	
			Recommended By: MANUEL M. BONGAN Undersecretary		Approved By: SIMON A. DATUMANONG Secretary	

PROJECT AND LOCATION :
THE DETAILED DESIGN STUDY ON
UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN-PHILIPPINE HIGHWAY
(Piaridel, Cabanatuan and San Jose Bypasses)
CABANATUAN BYPASS - CONTRACT PACKAGE III

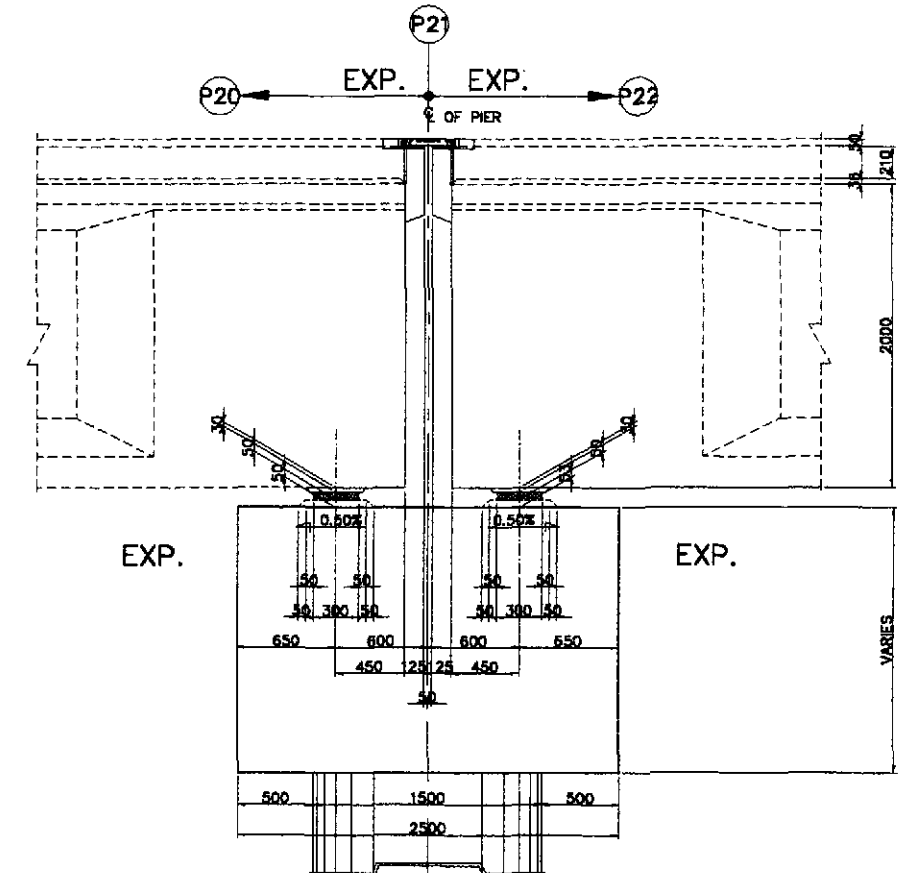
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SHEET CONTENTS :
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ABUTMENT LAYOUT & DIMENSIONS
(ABUTMENT A1 & A2)
(INITIAL STAGE)

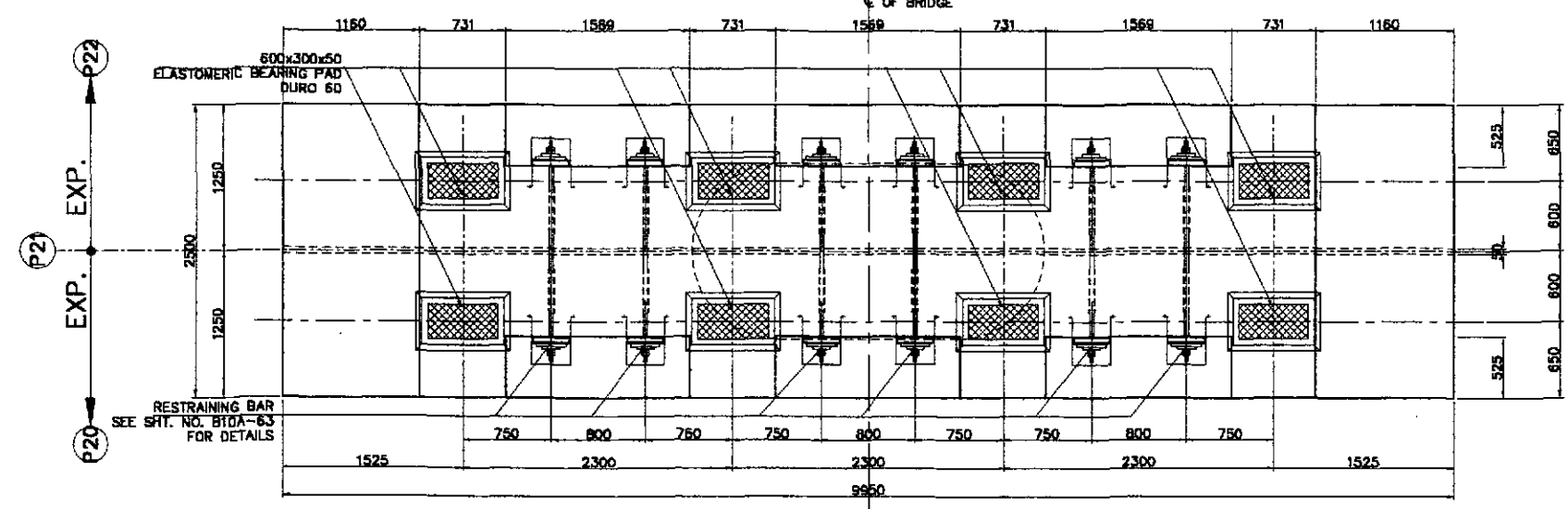
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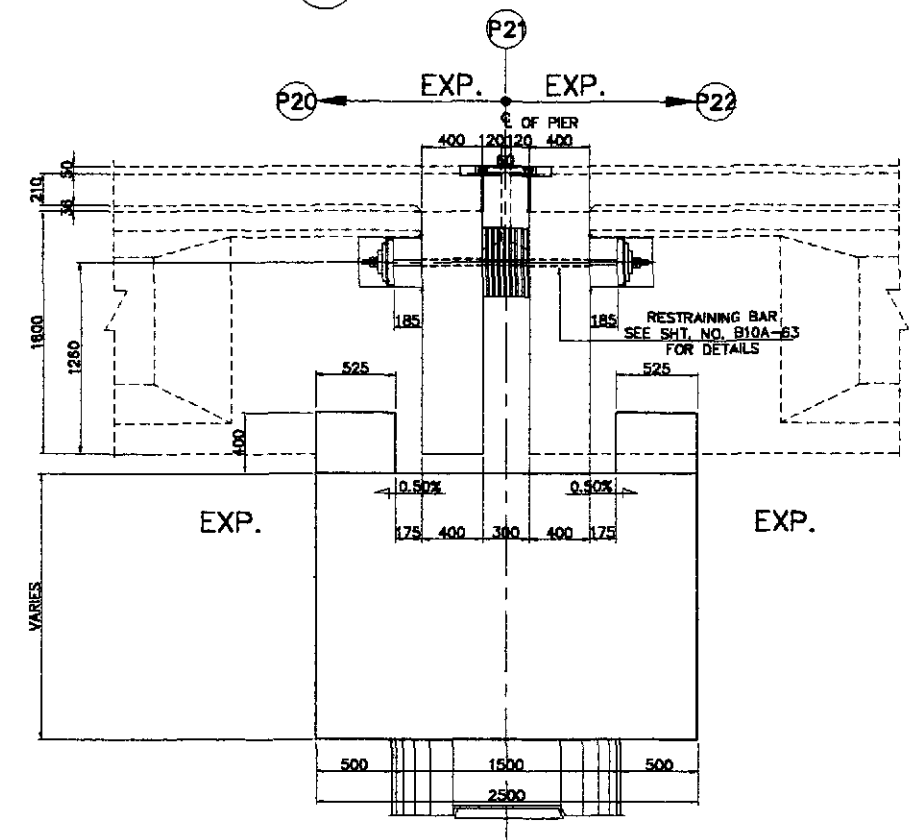
A ELEVATION
SCALE 1:30



C SECTION @ BEARING PAD
SCALE 1:25



B PLAN
SCALE 1:30



D SECTION @ ANCHOR BAR
SCALE 1:25

1 COPING LAYOUT AND DIMENSIONS (P21)
SCALE AS SHOWN

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY
K KATANIRA & ENGINEERS INTERNATIONAL
Y YACHIYO ENGINEERING CO., LTD.

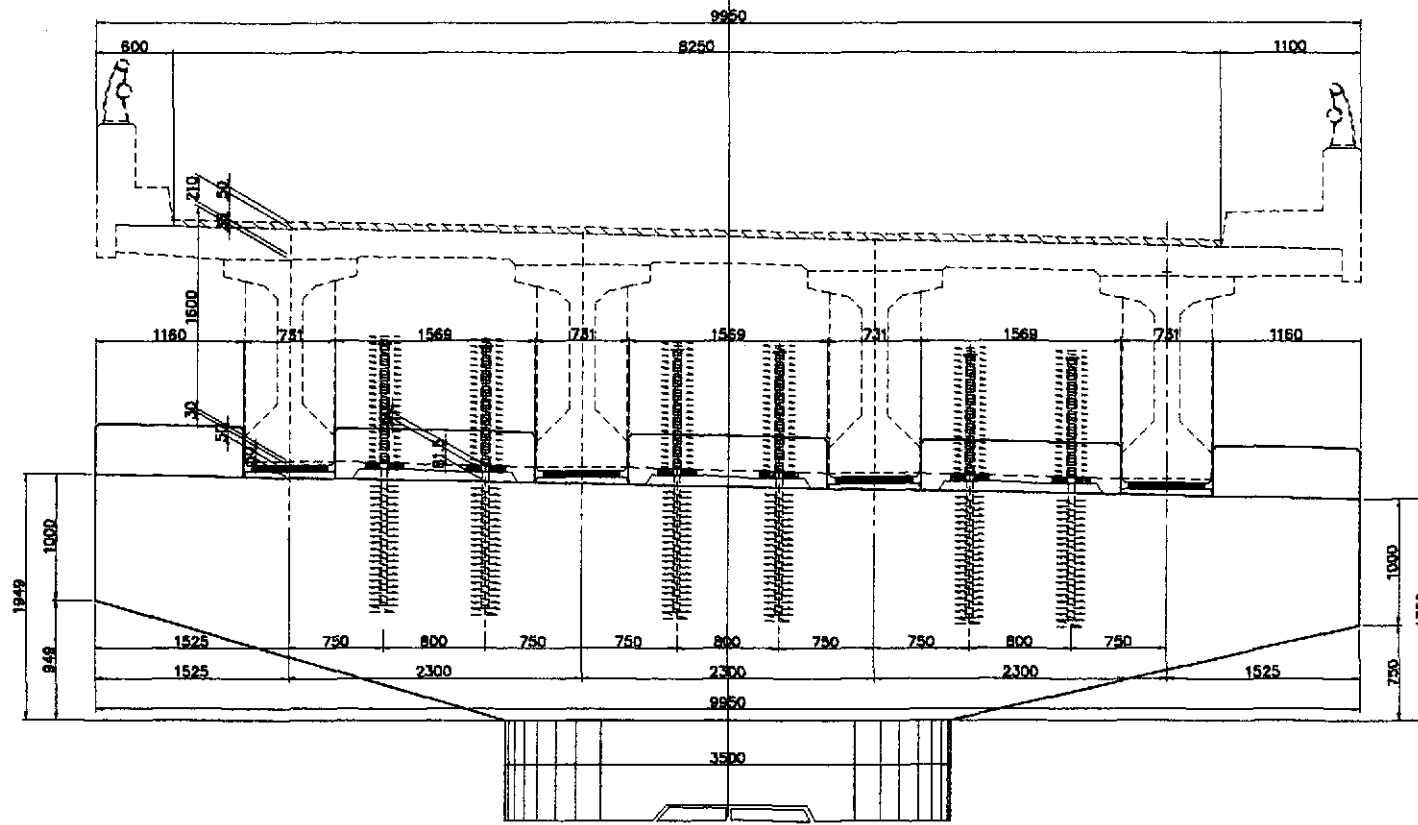
DESIGNED	DATE	SIGNATURE	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			
12/10/02	12/10/02	<i>[Signature]</i> F. M. PLAS	BUREAU OF DESIGN		OFFICE OF THE SECRETARY	
10/17/02	10/17/02	<i>[Signature]</i> J. C. SANTOS	Submitted By:	Reviewed By:	Recommended By:	Approved By:
10/14/02	10/14/02	<i>[Signature]</i> M. B. BACALAN	DANILO C. TRAJANO Project Director	ADRIANO M. DORAY Chief, Bridge Division	GILBERTO S. REYES Director IV (OIC)	MANUEL M. BONGAN Undersecretary
					Approved By: <i>[Signature]</i> SIMEON A. DATUMANONG Secretary	

PROJECT AND LOCATION :
THE DETAILED DESIGN STUDY ON
UPGRADING INTER-URBAN HIGHWAY SYSTEM
ALONG THE PAN-PHILIPPINE HIGHWAY
(Piridel, Cabanatuan and San Jose Bypasses)
CABANATUAN BYPASS - CONTRACT PACKAGE III

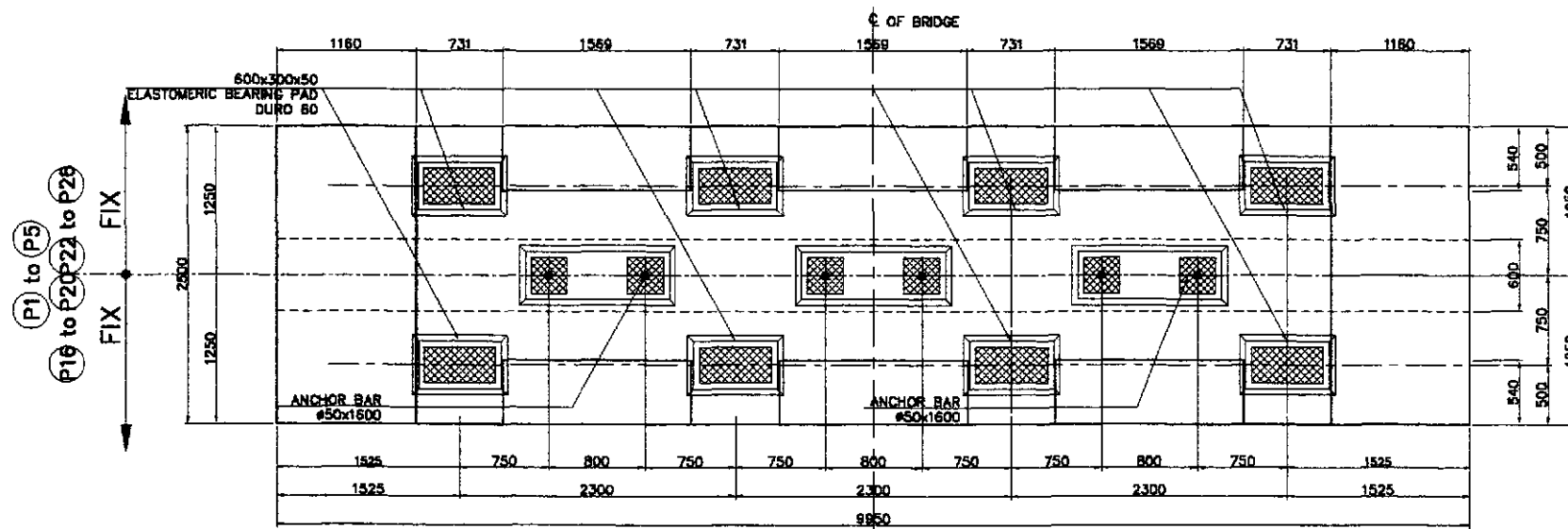
SCALE :
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SHEET CONTENTS :
BRIDGE NO.10 PAMPANGA RIVER BRIDGE
COPING LAYOUT & DIMENSIONS (P21)
(INITIAL STAGE)

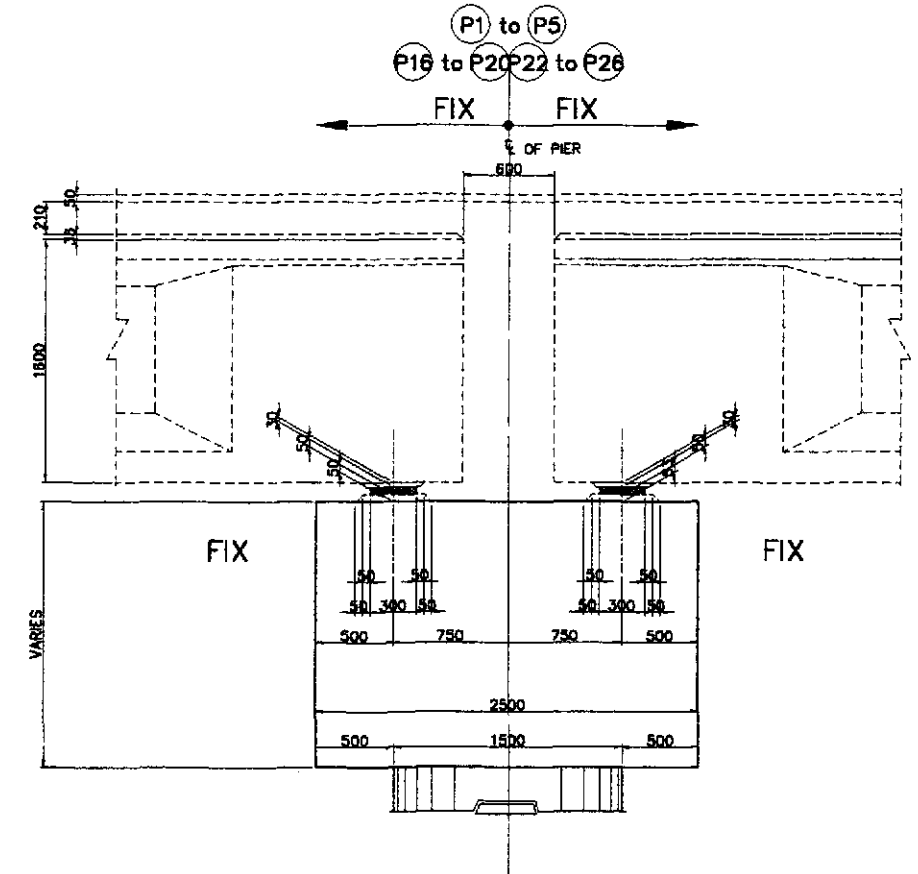
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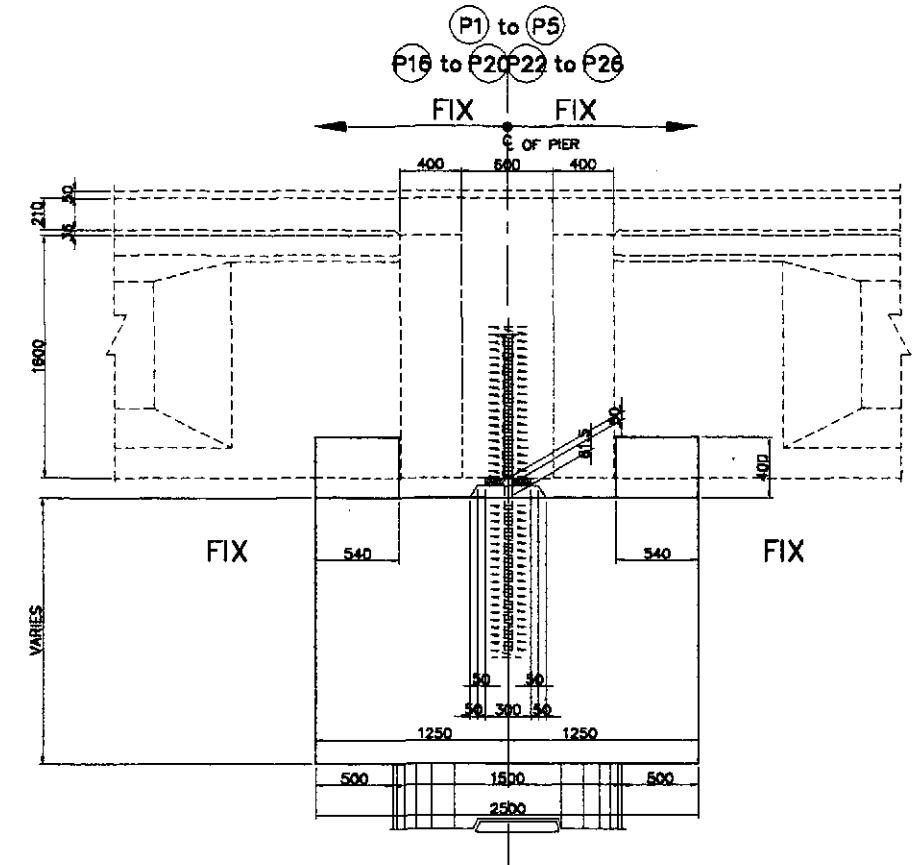
A ELEVATION
SCALE 1:30



B PLAN
SCALE 1:30



C SECTION @ BEARING PAD
SCALE 1:25

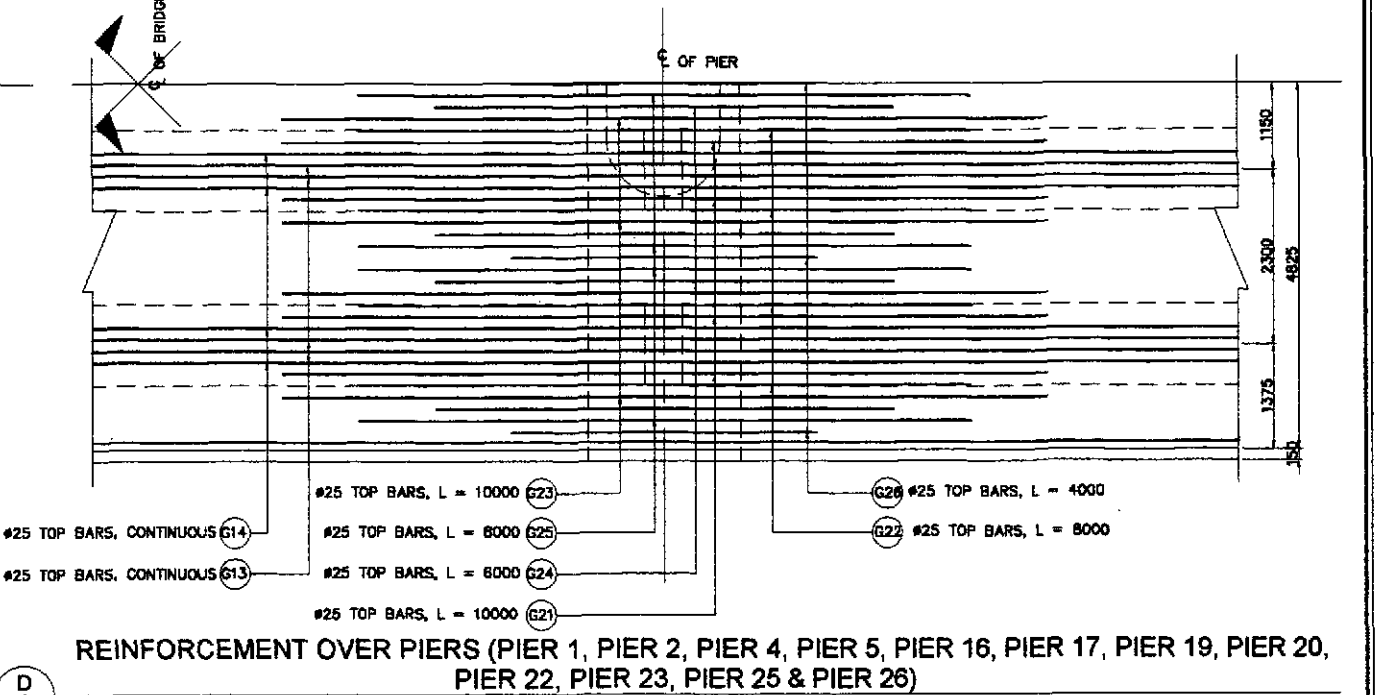
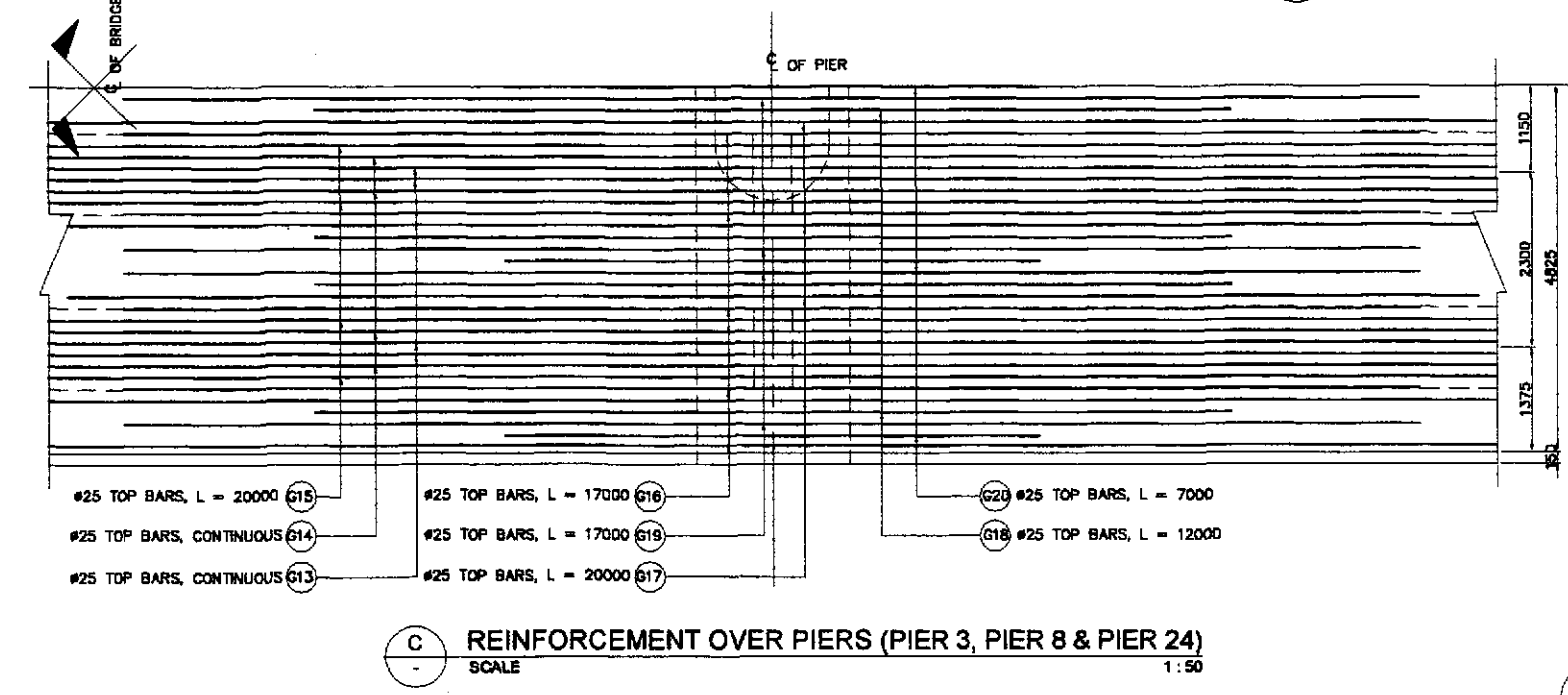
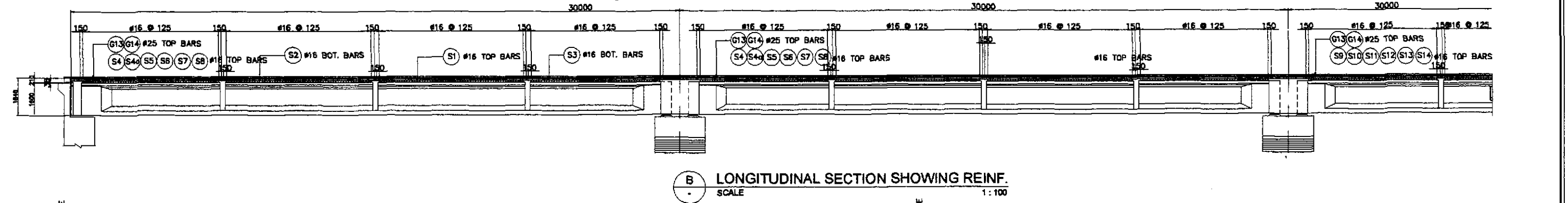
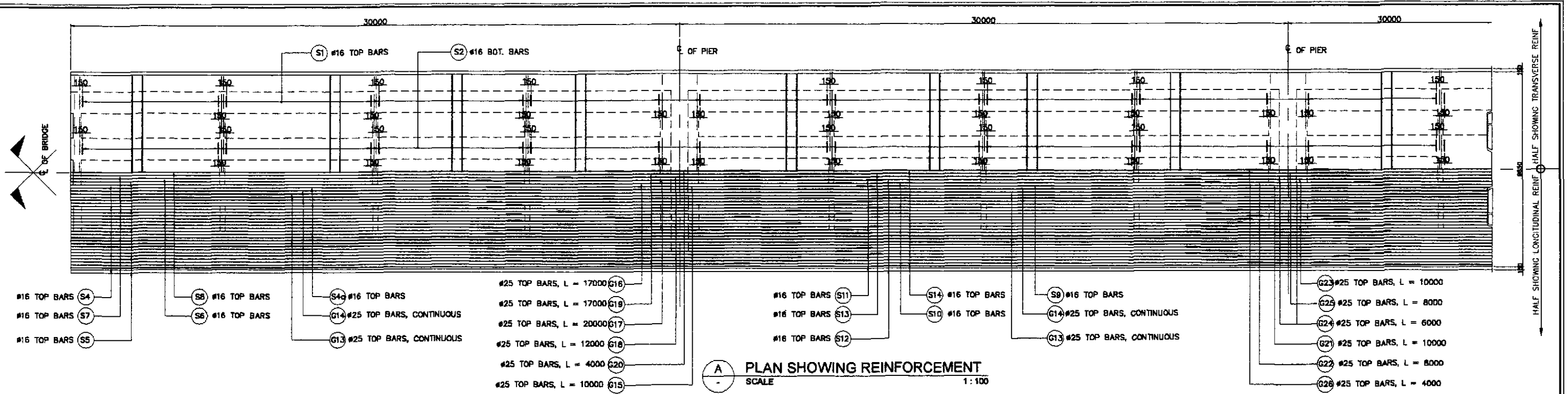


D SECTION @ ANCHOR BAR
SCALE 1:25

1 COPING LAYOUT AND DIMENSIONS (P1 to P5, P16 to P20 & P22 to P26)
SCALE AS SHOWN

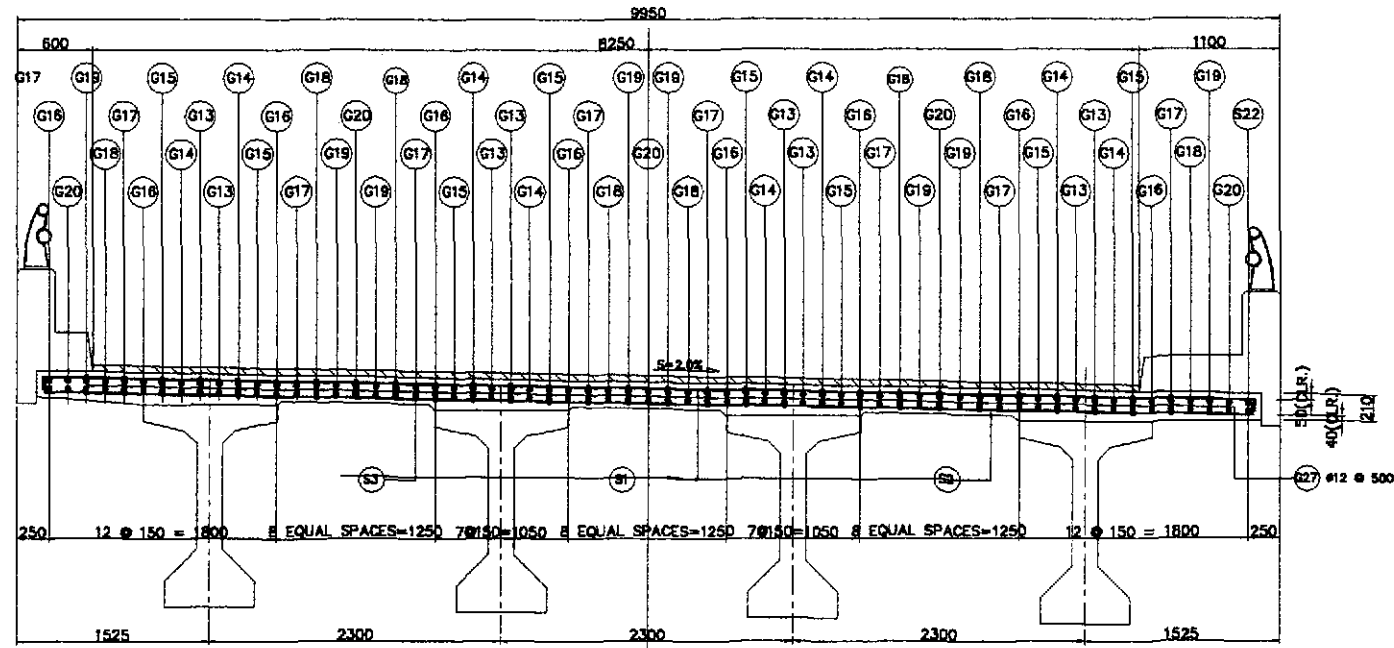
	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE :	SHEET CONTENTS :	SHEET NO. :	
	CHECKED	10/17/02	F. M. SALAS		Submitted By:	Reviewed By:	Recommended By:		Recommended By:	AS SHOWN	BRIDGE NO.10 PAMPANGA RIVER BRIDGE COPING LAYOUT & DIMENSIONS (P1 to P5, P16 to P20 & P22 to P26) (INITIAL STAGE)	B10A-09
	SUBMITTED	10/19/02	M. ROSARIO		DANILO C. TRAJANO Project Director	ADRIANO M. DORAY Chief, Bridge Division	GILBERTO S. REYES Director IV (D/C)		MANUEL M. SIBOAN Undersecretary	SIMEON A. DATUMANONG Secretary		

SUPERSTRUCTURE

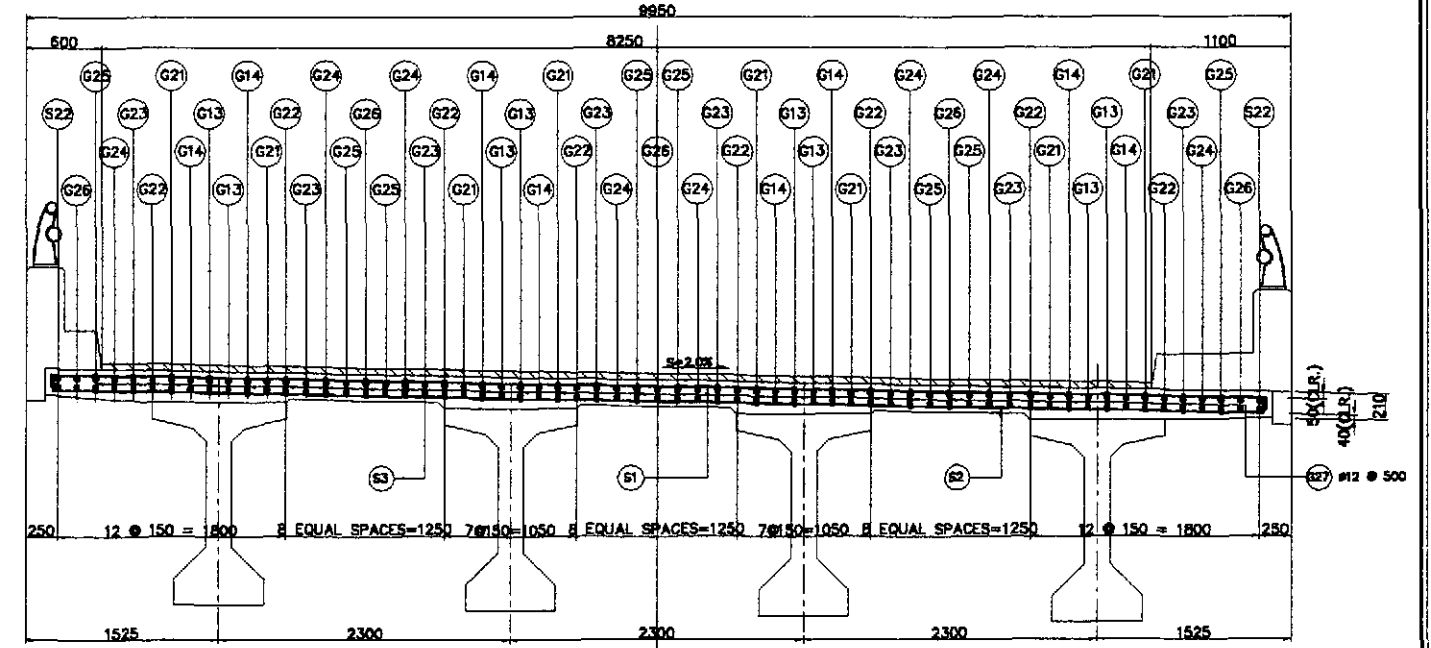


1 TYPICAL SLAB REINFORCEMENT DETAILS 1 of 3
SCALE AS SHOWN

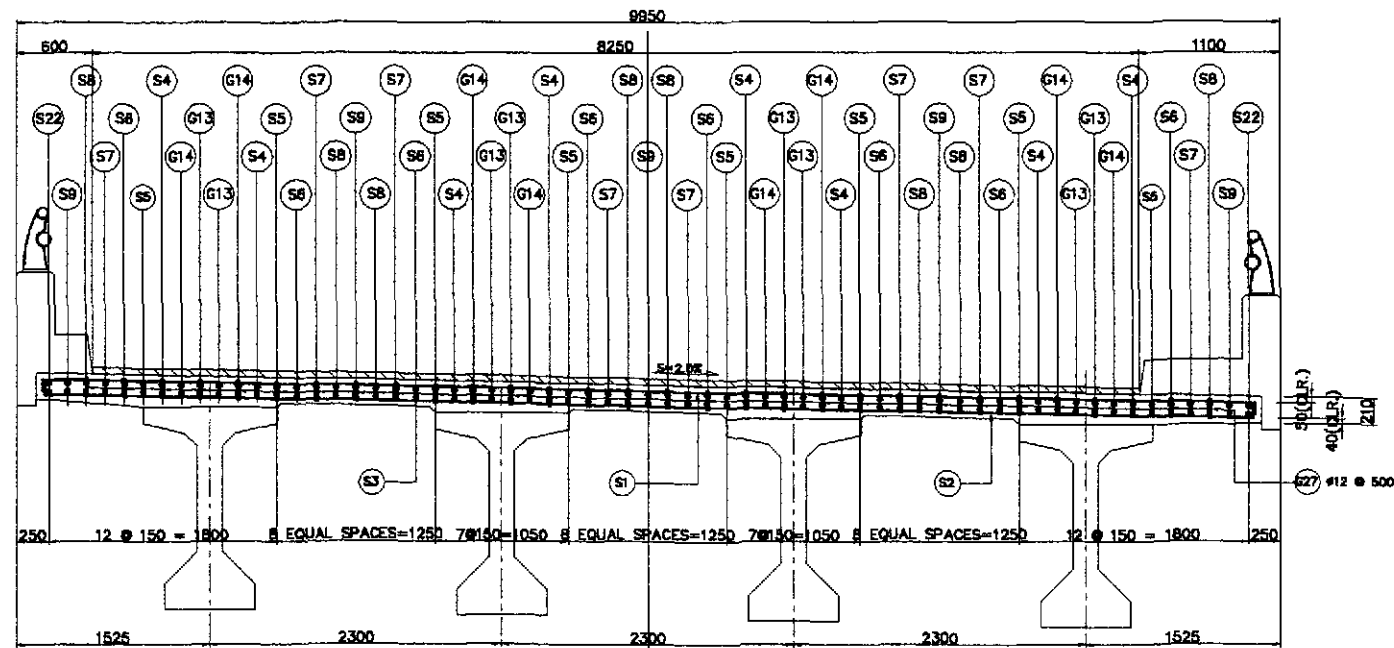
	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE :	SHEET CONTENTS : BRIDGE NO.10 PAMPANGA RIVER BRIDGE TYPICAL SLAB REINFORCEMENT DETAILS - 1 of 3 (INITIAL STAGE)	SHEET NO. : B10A-21
	CHECKED	10/17/12	F. M. B. S.		BUREAU OF DESIGN				AS SHOWN		
	SUBMITTED	10/19/12	C. SANTOS		Submitted By:	Reviewed By:	Recommended By:		Approved By:		
			TEAM LEADER		DANILO C. TRAJANO Project Director	ADRIANO M. DOROY Chief, Bridge Division	GILBERTO S. REYES Director IV (OC)	MANUEL M. BONDAN Undersecretary	SIMEON A. DATUMANONG Secretary		



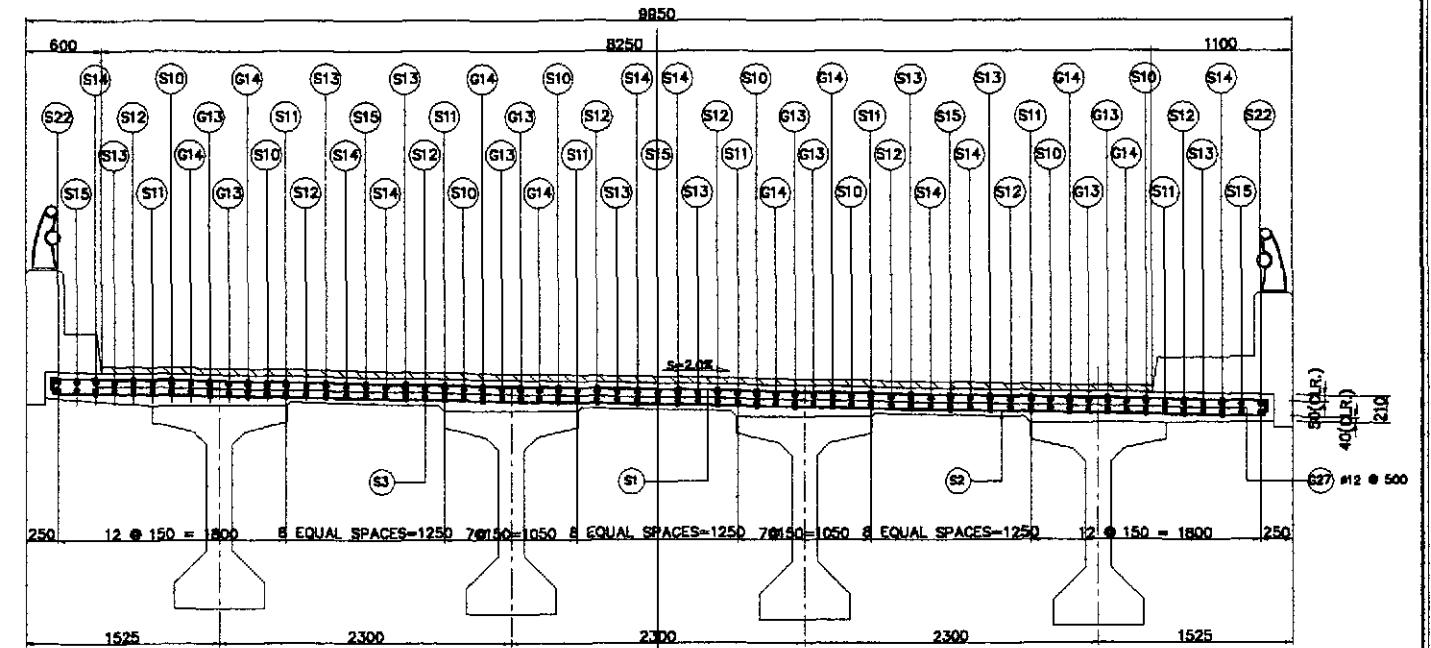
E TRANSVERSE SECTION (PIERS P3, P18 & P24)
SCALE 1:30



G TRANSVERSE SECTION (PIERS P1, P2, P4, P5, P16, P17, P19, P20, P22, P23, P25 & P26)
SCALE 1:30



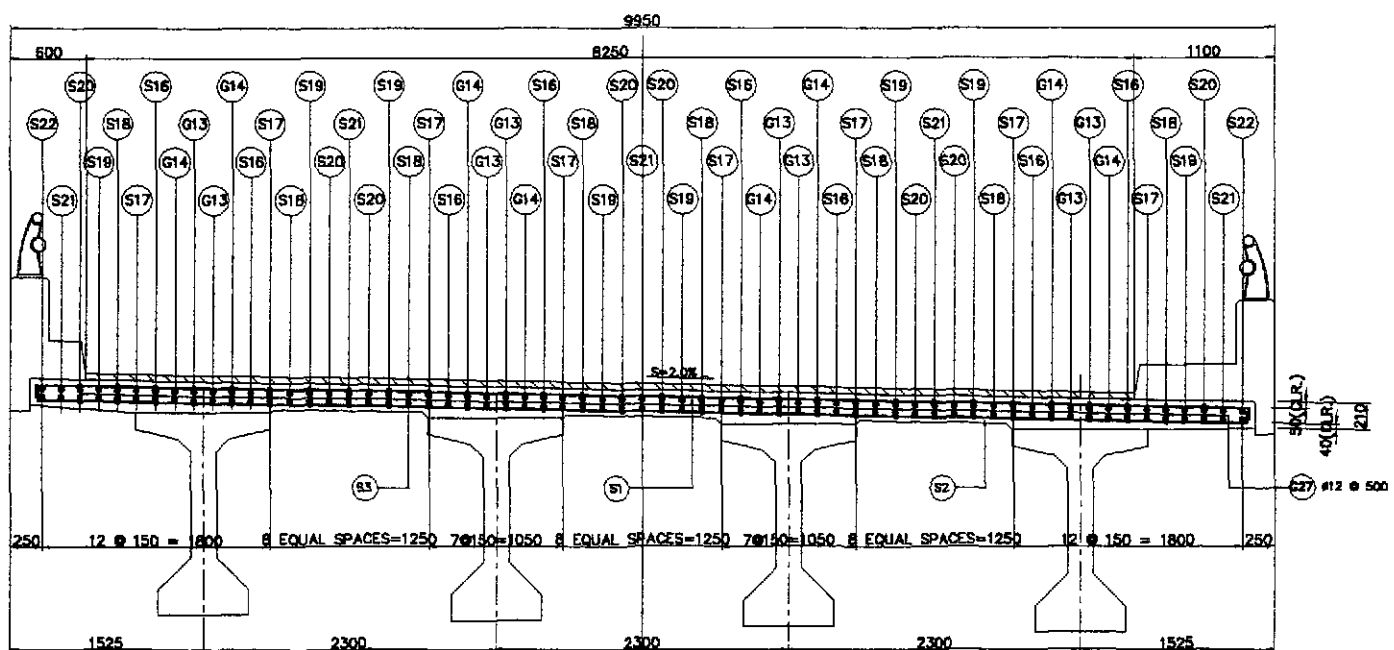
TRANSVERSE SECTION (BETWEEN ABUT. A1 & PIER 1, PIER 5 & PIER 6, PIER 20 & PIER 21, PIER 21 & PIER 22, PIER 26 & ABUT. A2)
SCALE 1:30



TRANSVERSE SECTION (BETWEEN PIER 1 & PIER 2, PIER 4 & PIER 5, PIER 16 & PIER 17, PIER 19 & PIER 20, PIER 22 & PIER 23, PIER 25 & PIER 26)
SCALE 1:30

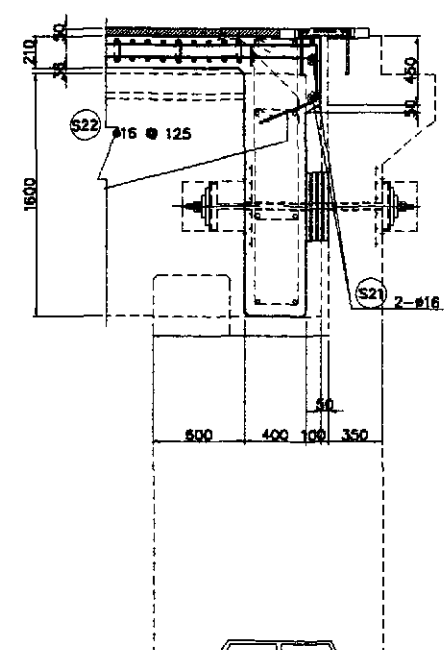
1 TYPICAL SLAB REINFORCEMENT DETAILS 2 of 3
SCALE AS SHOWN

	DESIGNED	DATE	SIGNATURE	<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>	PROJECT AND LOCATION :			SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	10/17/02	F. M. SEAS		THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Paridel, Cabanatuan and San Jose Bypasses)			AS SHOWN	BRIDGE NO.10 PAMPANGA RIVER BRIDGE TYPICAL SLAB REINFORCEMENT DETAILS - 2 of 3 (INITIAL STAGE)	B10A-22
	SUBMITTED	10/19/02	M. SANTOS		CABANATUAN BYPASS - CONTRACT PACKAGE III			FULL SIZE A1		
			TEAM LEADER		BUREAU OF DESIGN					
				OFFICE OF THE SECRETARY						
				Submitted By: DANILLO C. TRAJANO, Project Director						
				Reviewed By: ADRIANO M. DORAY, Chief, Bridge Division						
				Recommended By: GILBERTO S. REYES, Director IV (OC)						
				Recommended By: MANUEL M. BOLAÑAN, Undersecretary						
				Approved By: SIMEON A. DATUMANONG, Secretary						

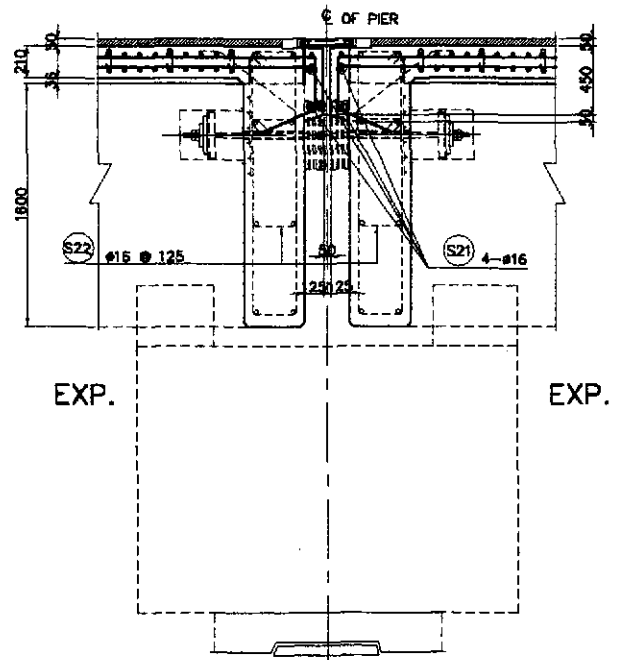


(BETWEEN PIER 2 & PIER 3,
PIER 3 & PIER 4, PIER 17 & PIER 18,
PIER 18 & PIER 19, PIER 23 & PIER 24,
PIER 24 & PIER 25)

SCALE 1:30



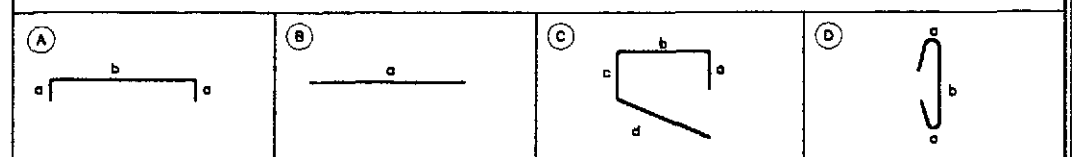
DETAIL @ ABUTMENT
SCALE 1:25



DETAIL @ EXP.-EXP. PIER
SCALE 1:25

TYPICAL SLAB REINFORCEMENT DETAILS 3 of 3
SCALE AS SHOWN

BAR BENDING DIAGRAM



SCHEDULE OF REINFORCEMENT

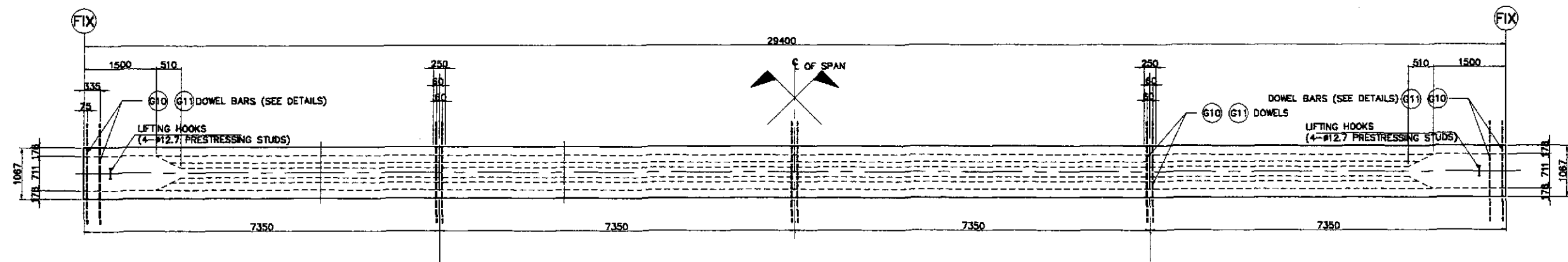
LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION (mm) OUT TO OUT						LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (kg)	
				a	b	c	d	e	f				GRADE 40	GRADE 60
	S1	16	A	100	9550					9750	1296	1.579	19952.24	
	S2	16	A	100	9550					9750	1296	1.579	19952.24	
	S3	16	B	179900						179900	65	1.579	18464.04	
	S4	16	B	24950						24950	16	1.579	630.34	
	S5	16	B	25950						25950	16	1.579	655.60	
	S6	16	B	24950						24950	16	1.579	630.34	
	S7	16	B	26950						26950	12	1.579	510.65	
	S8	16	B	25950						25950	16	1.579	655.60	
	S9	16	B	27950						27950	10	1.579	441.33	
	S10	18	B	20000						20000	16	1.579	505.28	
	S11	16	B	22000						22000	16	1.579	555.81	
	S12	16	B	20000						20000	16	1.579	505.28	
	S13	16	B	24000						24000	16	1.579	606.34	
	S14	16	B	22000						22000	16	1.579	555.81	
	S15	16	B	26000						26000	10	1.579	410.54	
	S16	16	B	17500						17500	16	1.579	442.12	
	S17	16	B	15000						15000	16	1.579	378.96	
	S18	16	B	21000						21000	16	1.579	530.54	
	S19	16	B	21000						21000	16	1.579	530.54	
	S20	16	B	17500						17500	16	1.579	442.12	
	S21	16	B	24500						24500	10	1.579	386.86	
	S22	16	B	17500						17500	4	1.579	110.53	
	S23	16	C	300	400	380	400			1550	130	1.579	320.00	
	S24	16	B	9550						9550	4	1.579	60.32	
	G13	25	B	179900						179900	8	3.854	5546.68	
	G14	25	B	179900						179900	10	3.854	6933.35	
	G15	25	B	20000						20000	16	3.854	1233.28	
	G16	25	B	17000						17000	20	3.854	1310.36	
	G17	25	B	20000						20000	16	3.854	1233.28	
	G18	25	B	12000						12000	16	3.854	739.97	
	G19	25	B	17000						17000	16	3.854	1048.29	
	G20	25	B	7000						7000	12	3.854	323.74	
	G21	25	B	10000						10000	32	3.854	1233.28	
	G22	25	B	8000						8000	32	3.854	986.62	
	G23	25	B	10000						10000	32	3.854	1233.28	
	G24	25	B	6000						6000	32	3.854	739.97	
	G25	25	B	8000						8000	32	3.854	986.62	
	G26	25	B	4000						4000	24	3.854	369.98	
	G27	12	D	150	110					410	5040	0.888	1834.96	
TOTAL WEIGHT =												70,068.39	23,818.70	

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

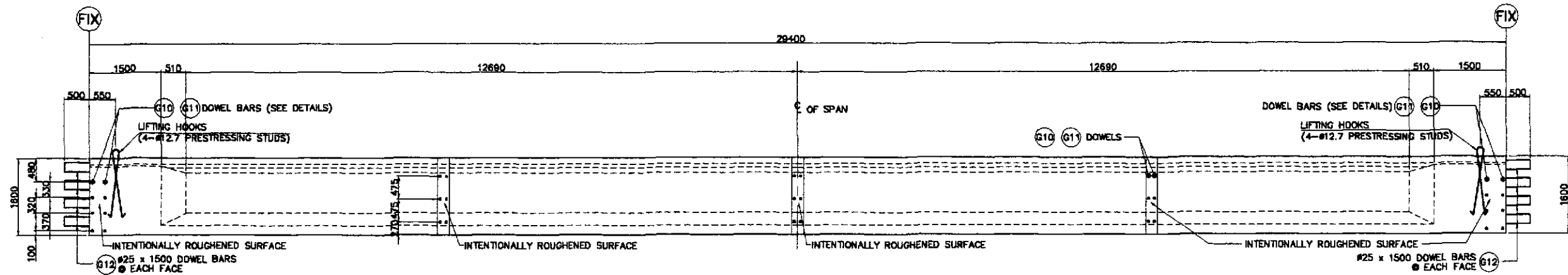
NOTES :

1. SPLICE LENGTH NOT INCLUDED.
2. LENGTH OF SPLICE IS 1000mm.
3. SPLICING OF CONTINUOUS BARS (#25) IS ALLOWED ONLY 6000mm CENTERLINE OF PIER.
4. SPLICING OF BARS MARKED G17 MAY BE ALLOWED WITHIN CENTERLINE OF PIER.
5. ESTIMATED QUANTITY FOR ONE(1) - SIX(6) SPAN CONTINUOUS ONLY.

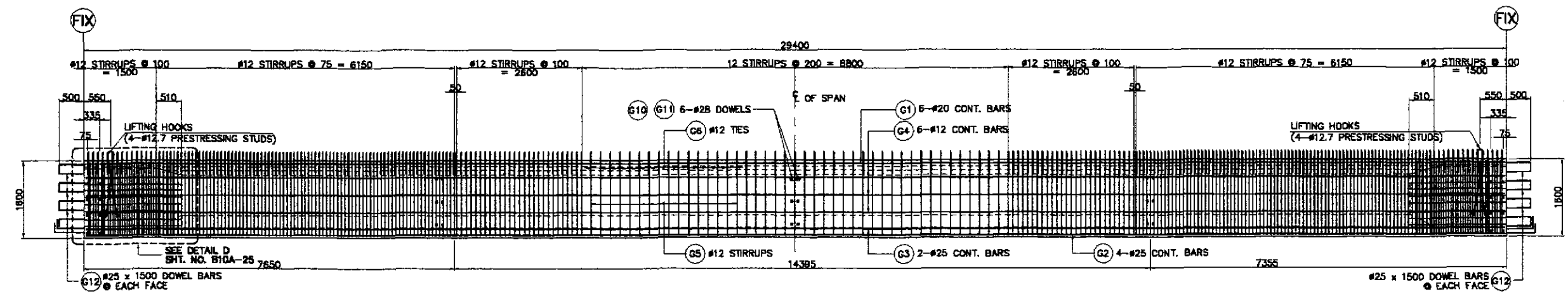
	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES				PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pieridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE II	SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO.10 PAMPANGA RIVER BRIDGE TYPICAL SLAB REINFORCEMENT DETAILS - 3 of 3 (INITIAL STAGE)	SHEET NO. : B10A-23
	CHECKED	DATE	SIGNATURE		DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS							
	SUBMITTED	DATE	SIGNATURE		DIVISION - PMO Submitted By: DANILLO C. TRAJANO Project Director	Reviewed By: ADRIANO M. DORON Chief, Bridge Division	Recommended By: GILBERTO S. REYES Director IV (CIC)	Recommended By: MARUCEL M. BONGHAN Undersecretary				



A PLAN
SCALE 1:100



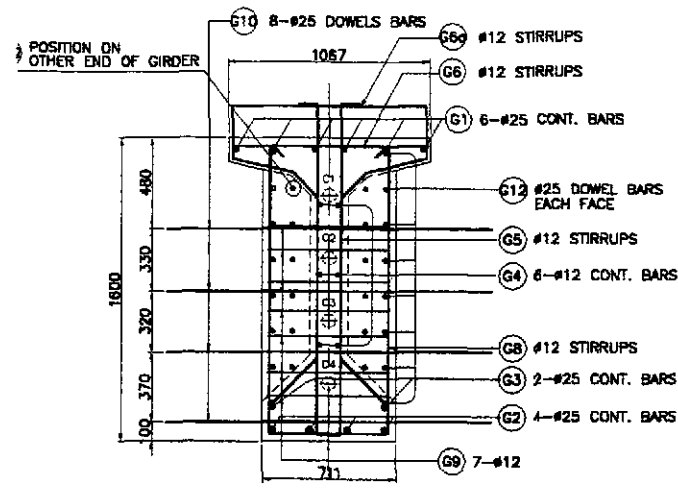
B ELEVATION
SCALE 1:100



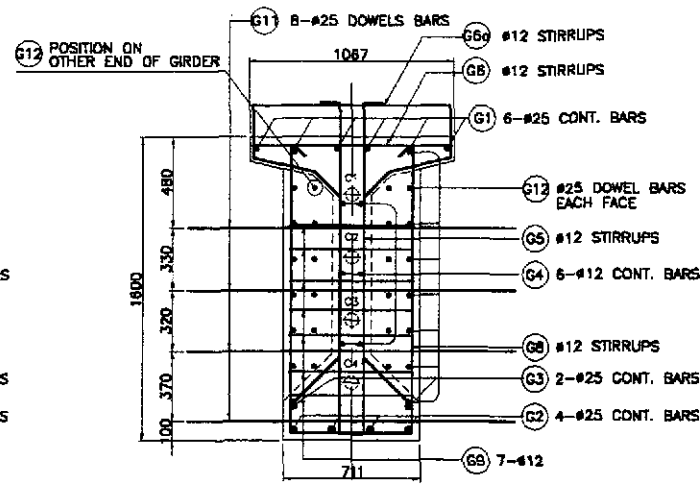
C DETAILS OF REINFORCEMENT
SCALE 1:100

DETAILS OF AASHTO GIRDER TYPE V (FIX-FIX) - 1 of 2
SCALE AS SHOWN

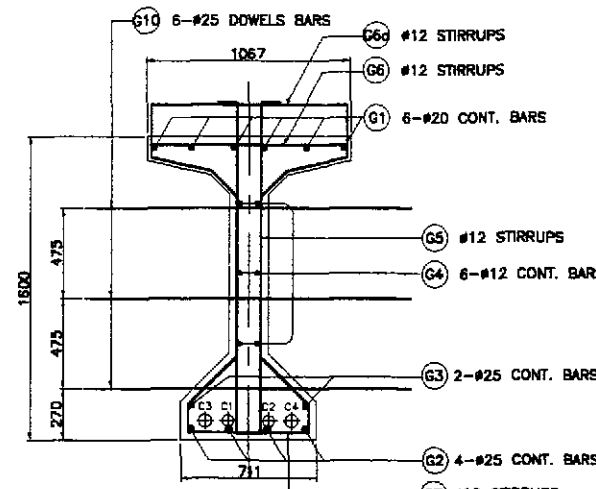
	DESIGNED	DATE	SIGNATURE	<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>	PROJECT AND LOCATION :			SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	12/17/02	F. M. BALAS		THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)			AS SHOWN	BRIDGE NO. 10 PAMPANGA RIVER BRIDGE DETAILS AASHTO GIRDER TYPE V (FIX-FIX) - 1 of 2 (INITIAL STAGE)	B10A-24
	SUBMITTED	12/18/02	J. C. SANTOS TEAM LEADER		CABANATUAN BYPASS - CONTRACT PACKAGE III			FULL SIZE A1		
Submitted By: DANILO C. TRAJANO Project Director Reviewed By: ADRIANO M. DOROY Chief, Bridge Division Recommended By: GILBERTO S. REYES Director IV (OC) Recommended By: MANUEL M. BONGAAN Undersecretary Approved By: SIMEON A. DATUMANONG Secretary										



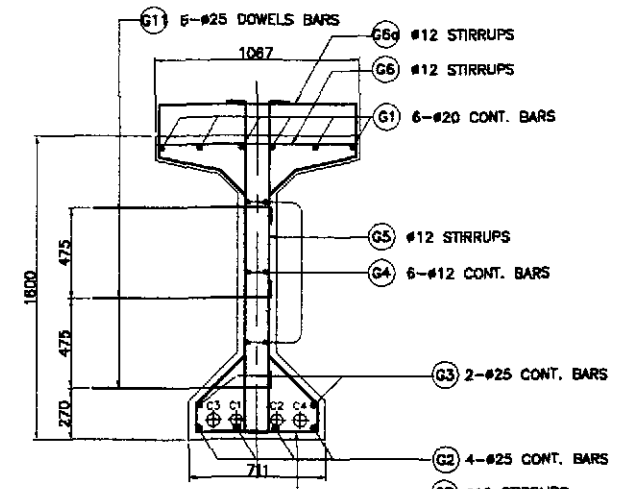
INTERIOR GIRDER



EXTERIOR GIRDER



INTERIOR GIRDER

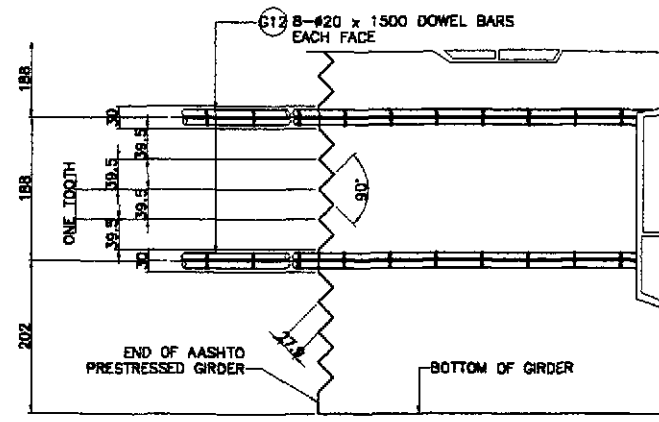


EXTERIOR GIRDER

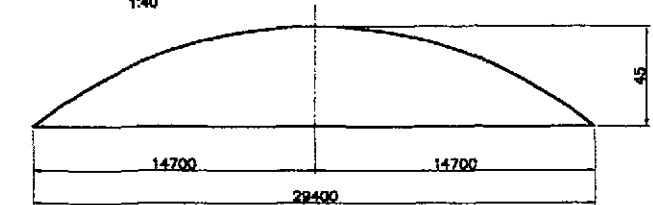
A SECTION AT END DIAPHRAGM
SCALE 1:40

B SECTION AT INTERMEDIATE DIAPHRAGM
SCALE 1:40

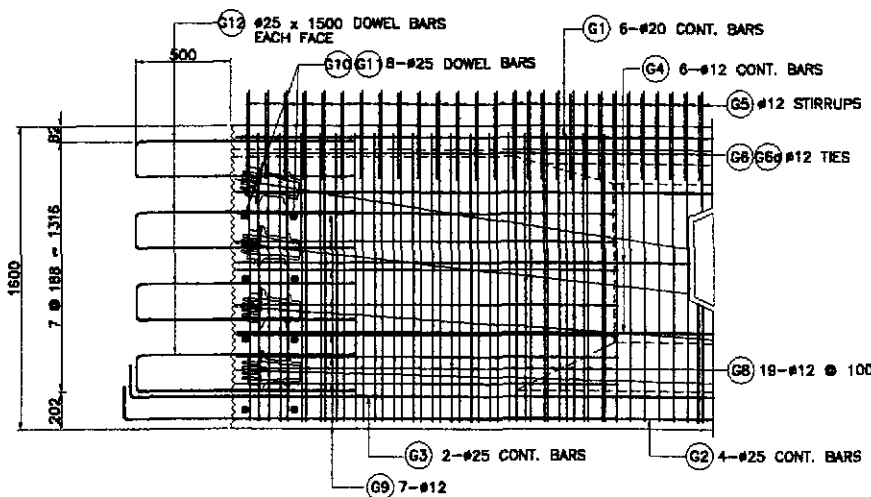
NOTE:
REBAR (G12) SHOULD BE MOVED
75mm INWARD ON THE OTHER
END OF THE GIRDER TO AVOID
CONFLICT WITH THE ADJACENT
GIRDER AT THE END DIAPHRAGM.



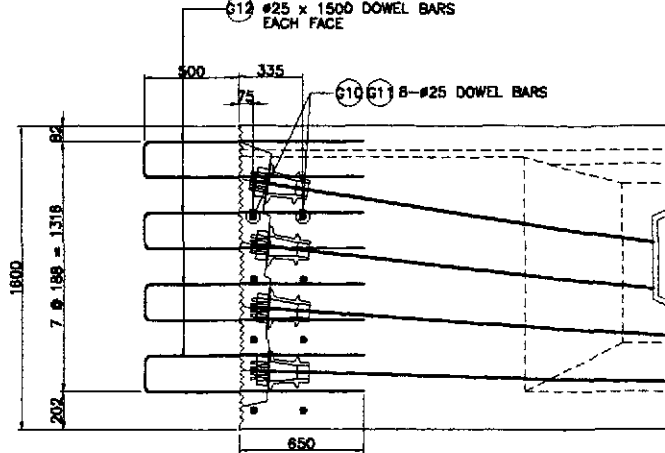
E TOOTH DETAIL
SCALE 1:10



E CAMBER DIAGRAM
NOT TO SCALE

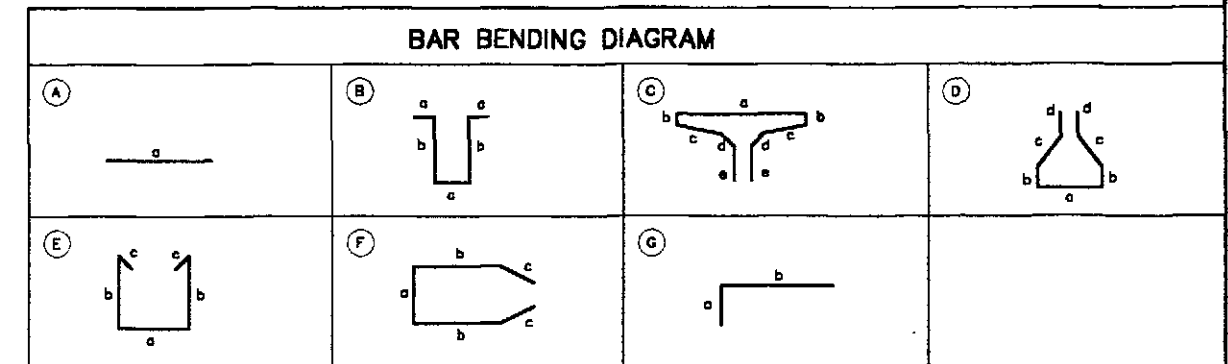


F END BLOCK REINF. DETAIL
SCALE 1:40



G END BLOCK DOWELS DETAIL
SCALE 1:40

1 DETAILS OF AASHTO GIRDER TYPE V (FIX-FIX) - 2 of 2
SCALE AS SHOWN

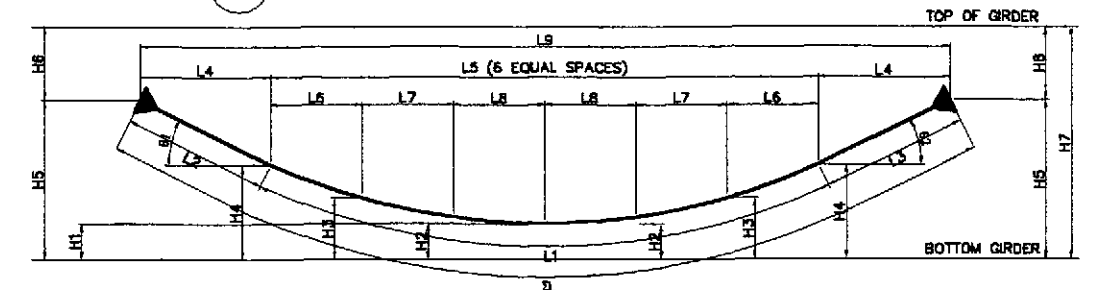
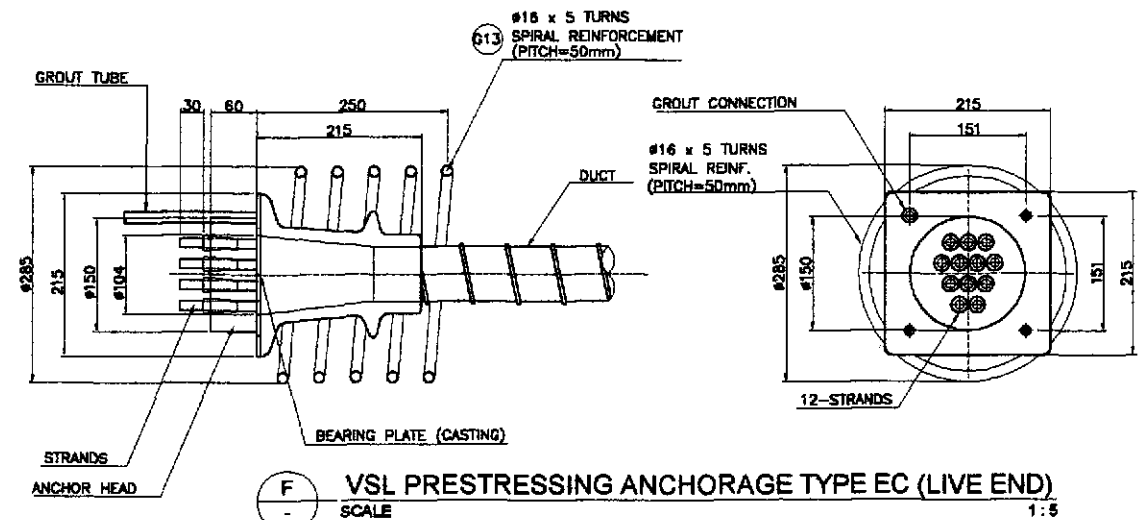
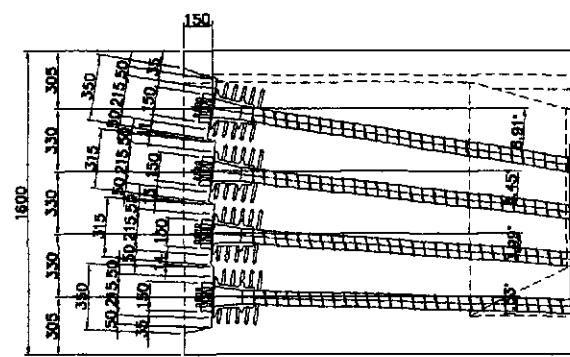
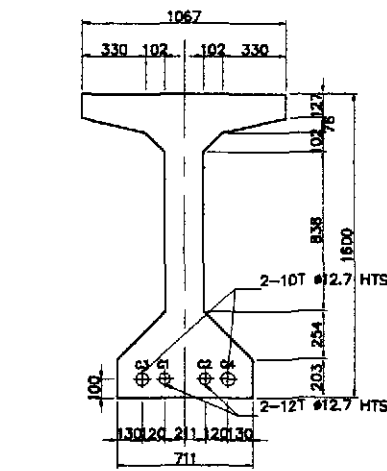
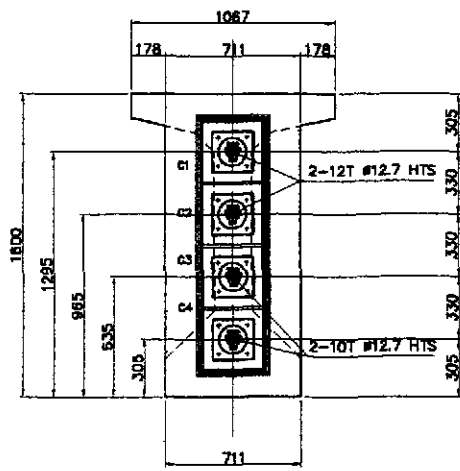
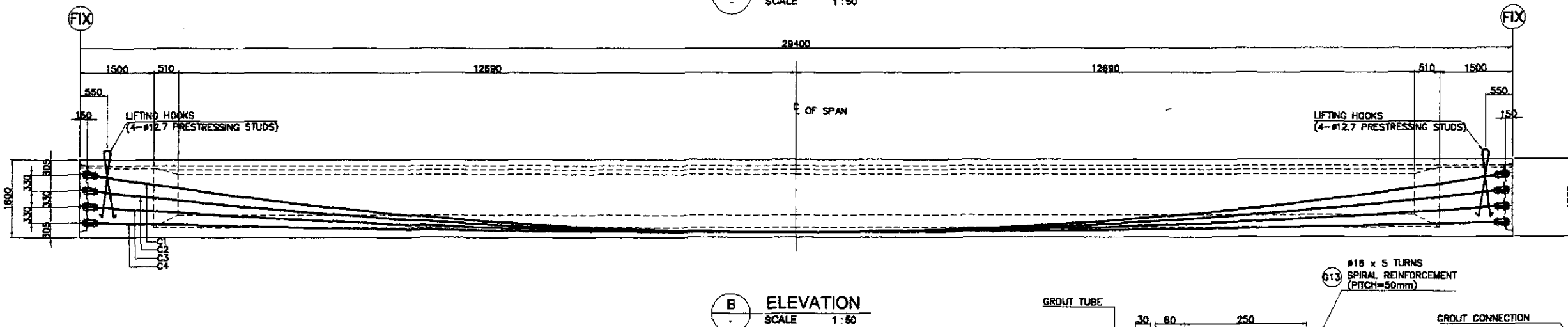
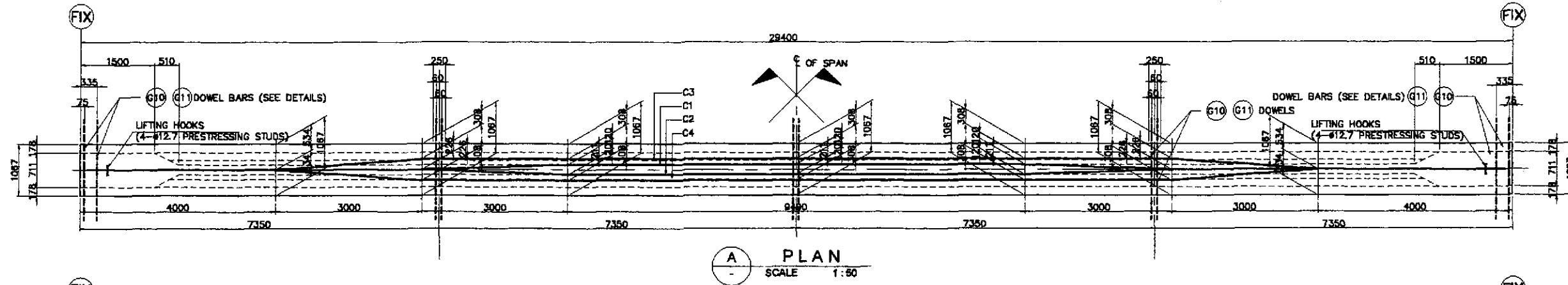


SCHEDULE OF REINFORCEMENT

LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION(mm) OUT TO OUT					LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (kg)		REMARKS
				a	b	c	d	e				GRADE 40	GRADE 80	
	G1	20	A	28400					28400	8	2.486		435.00	1) Quantities for one (1) girder only.
	G2	25	A	30400					30400	4	3.854		468.57	
	G3	25	A	30400					30400	2	3.854		234.32	
	G4	12	A	29400					29400	6	0.888	156.70		
	G5	12	B	200	1700	103			2203	297	0.888	581.01		2) Splice length, not included.
	G6	12	C	1000	50	340	200	150	2480	297	0.888	654.07		
	G6a	12	C	1000	150	340	200	150	2680	297	0.888	706.81		3) Bar mark G10 is for interior girder only.
	G7	12	D	635	160	550	150		2355	297	0.888	621.10		
	G8	12	E	635	1900	150			4735	32	0.888	134.55		4) Bar mark G11 is for exterior girder only.
	G9	12	F	611	1450	570			4651	14	0.888	57.82		
	G10	25	A	1200					1200	16	3.854		74.00	
	G11	25	G	200	600				800	18	3.854		49.33	
	G12	25	A	1500					1500	32	3.854		185.00	
TOTAL WEIGHT (EXTERIOR GIRDER) =											2812.06	1372.30		
TOTAL WEIGHT (INTERIOR GIRDER) =											2812.06	1387.00		

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

<p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>		<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>		<p>PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)</p>		<p>SCALE : AS SHOWN</p>		<p>SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE DETAILS AASHTO GIRDER TYPE V (FIX-FIX) - 2 of 2 (INITIAL STAGE)</p>		<p>SHEET NO. : B10A-25</p>	
DESIGNED	DATE	SIGNATURE	BUREAU OF DESIGN		OFFICE OF THE SECRETARY		FULL SIZE A1				
CHECKED	10/27/02	F. M. SALAS	Submitted By:	Reviewed By:	Recommended By:	Recommended By:					
SUBMITTED	11/19/02	[Signature]	DANILO C. TRAJANO Project Director	ADRIANO M. DOROS Chief, Bridge Division	GILBERTO S. REYES Director IV (OC)	MANUEL M. BONONAN Undersecretary	SIMEON A. DATUMANONG Secretary				



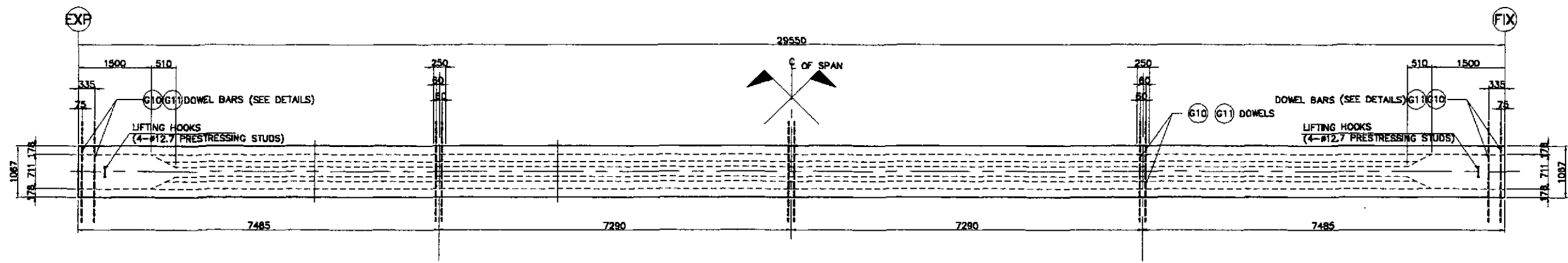
TENDON VERTICAL PROFILE

TENDON DESIGNATION	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	θ1 (degree)	θ2 (degree)	TYPE - SIZE	FORCE IN TENDON @ JACK BEFORE LOCK OFF (KN)	ANCHORAGE SLIP (mm)	TENDON PRESTRESS FORCE AFTER LOCK-OFF @ MIDSPAN (KN) *	TENDON LENGTH (mm)	TOTAL LENGTH (mm)	TOTAL WEIGHT (kg)		
C1	26380	1500	1500	1482	26286	4381.0	4381.0	4381.0	29100	29380	100	207	527	1064	1285	305	1800	8.91°	8.91°	12-dia. 12.7	1545	6	1544	32080	384,960	298.344	
C2	26320	1500	1500	1491	26269	4378.2	4378.2	4378.2	29100	29320	100	177	409	797	965	635	1600	6.45°	6.45°	12-dia. 12.7	1545	6	1544	32020	384,240	297.788	
C3	26280	1500	1500	1486	26257	4376.2	4376.2	4376.2	29100	29280	100	148	291	531	635	965	1600	3.99°	3.99°	10-dia. 12.7	1290	6	1203	31880	319,800	247.845	
C4	26250	1500	1500	1499	26251	4350.2	4350.2	4350.2	29100	29250	100	118	173	265	305	1295	1600	1.53°	1.53°	10-dia. 12.7	1290	6	1203	31950	319,500	247.612	
																						TOTAL	1,408,500		1,091,588		

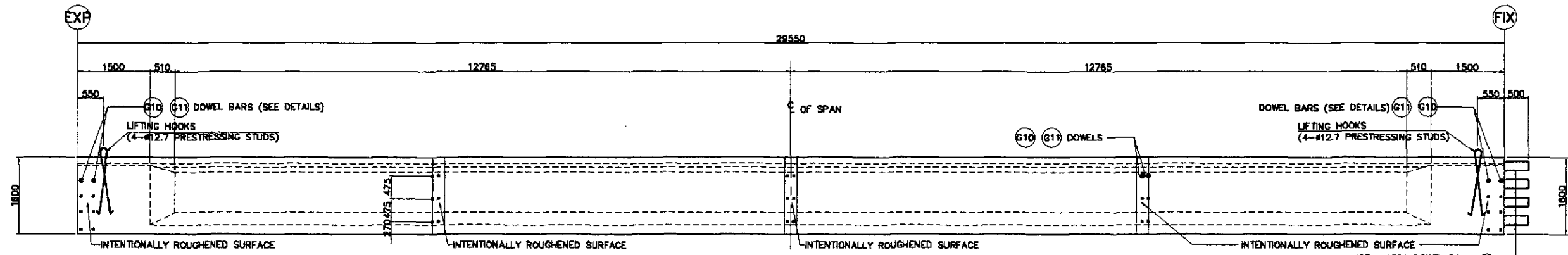
1 DETAILS OF AASHTO GIRDER TYPE V PRESTRESSING CABLE (FIX-FIX)
SCALE AS SHOWN

NOTE: AFTER FRICTION LOSS AND WEDGE DRAW-IN ONLY.

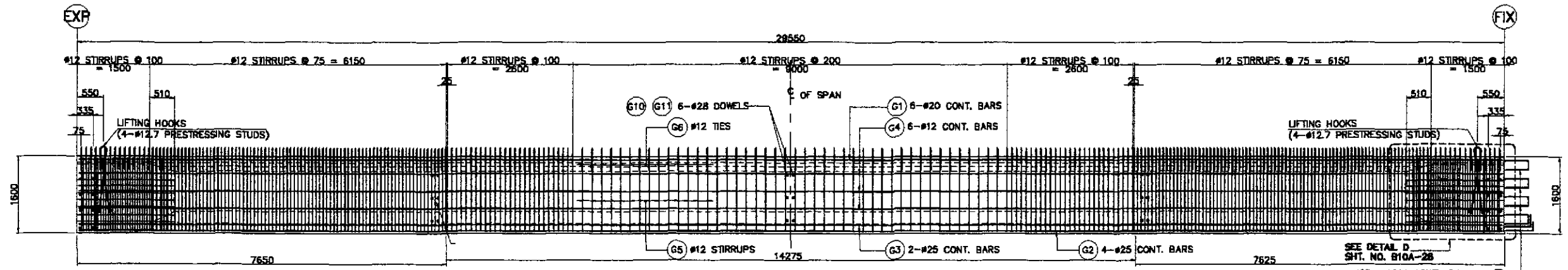
	DESIGNED	DATE	SIGNATURE		PROJECT AND LOCATION:	SCALE:	SHEET CONTENTS:	SHEET NO.:				
	CHECKED	10/17/02	F. M. SALAS		THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses)	AS SHOWN	BRIDGE NO. 10 PAMPANGA RIVER BRIDGE DETAILS OF AASHTO GIRDER TYPE V PRESTRESSING CABLE (FIX-FIX) (INITIAL STAGE)	B10A-26				
SUBMITTED	10/19/02	J. C. SANTOS	DANILLO C. TRILANO Project Director	ADRIANO M. DOROY Chief, Bridge Division	GILBERTO S. REYES Director IV (D/C)	MANUEL M. BONDAN Undersecretary	SIMEON A. DATUMANONG Secretary	CABANATUAN BYPASS - CONTRACT PACKAGE III	FULL SIZE A1			



A PLAN
SCALE 1:100



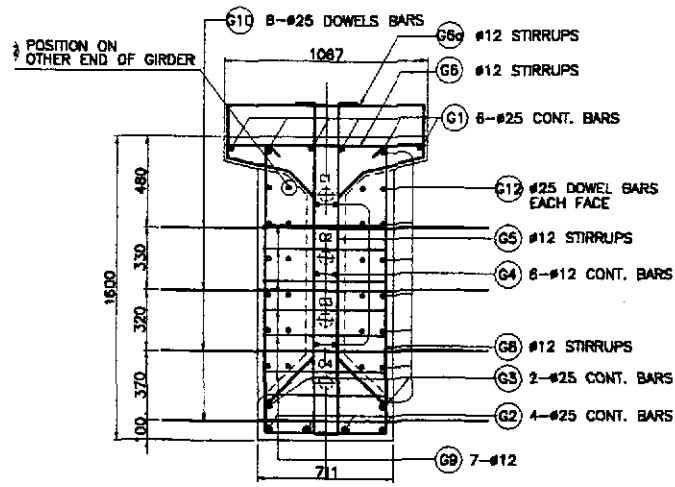
B ELEVATION
SCALE 1:100



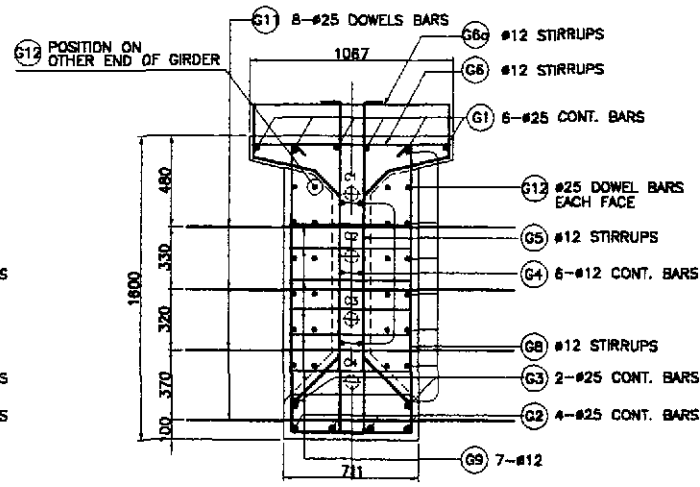
C DETAILS OF REINFORCEMENT
SCALE 1:100

1 DETAILS OF AASHTO GIRDER TYPE V (EXP.-FIX) - 1 of 2
SCALE AS SHOWN

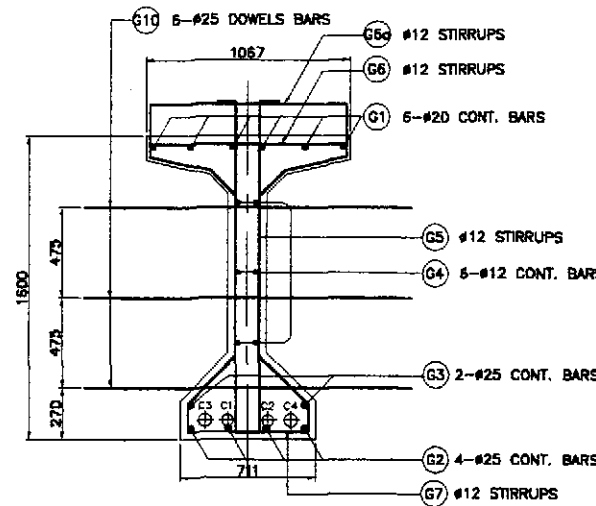
	DESIGNED	DATE	SIGNATURE	<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>	PROJECT AND LOCATION :		SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	10/9/02	F. M. SALAS		THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses)		AS SHOWN	BRIDGE NO.10 PAMPANGA RIVER BRIDGE DETAILS OF AASHTO GIRDER TYPE V (EXP.-FIX) - 1 of 2 (INITIAL STAGE)	B10A-27
	SUBMITTED	10/9/02	TEAM LEADER		CABANATUAN BYPASS - CONTRACT PACKAGE III		FULL SIZE A1		
Submitted By: DANILLO C. TRAJANO, Project Director Reviewed By: JOSEFINA M. ALAGAR, Chief, Highway Division Recommended By: GILBERTO S. REYES, Director IV (OC) Recommended By: MANUEL M. BONDUAN, Undersecretary Approved By: SIMEON A. DATUMANONG, Secretary									



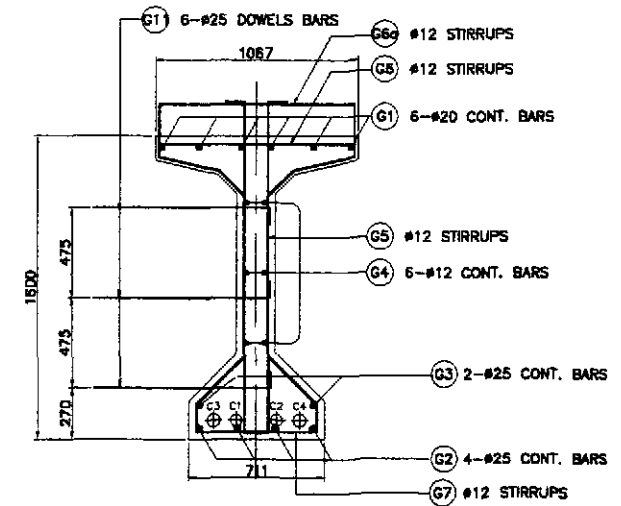
INTERIOR GIRDER



EXTERIOR GIRDER



INTERIOR GIRDER

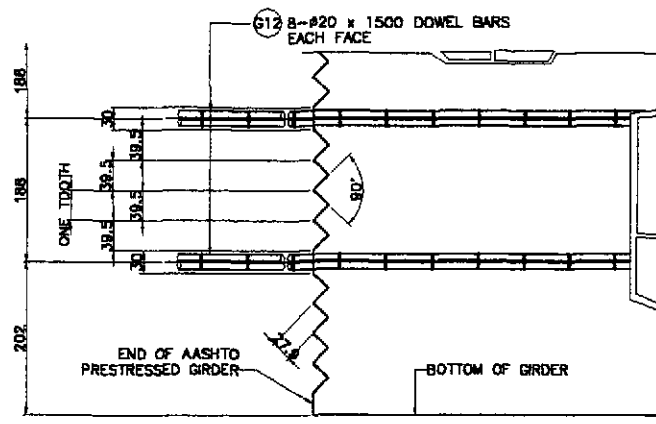


EXTERIOR GIRDER

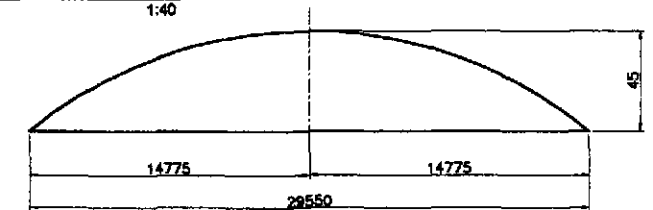
A SECTION AT END DIAPHRAGM
SCALE 1:40

B SECTION AT INTERMEDIATE DIAPHRAGM
SCALE 1:40

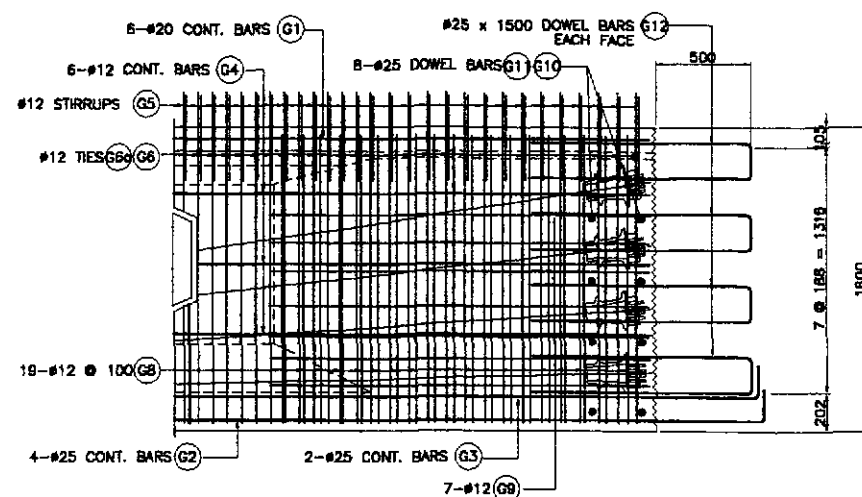
NOTE:
REBAR (G12) SHOULD BE MOVED
75mm INWARD ON THE OTHER
END OF THE GIRDER TO AVOID
CONFLICT WITH THE ADJACENT
GIRDER AT THE END DIAPHRAGM.



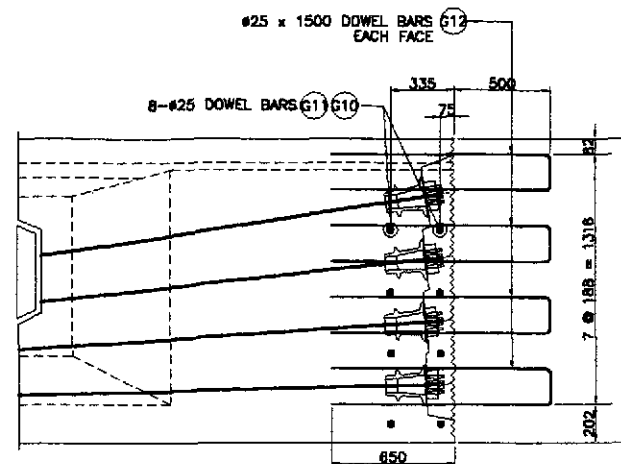
C TOOTH DETAIL
SCALE 1:10



F CAMBER DIAGRAM
NOT TO SCALE

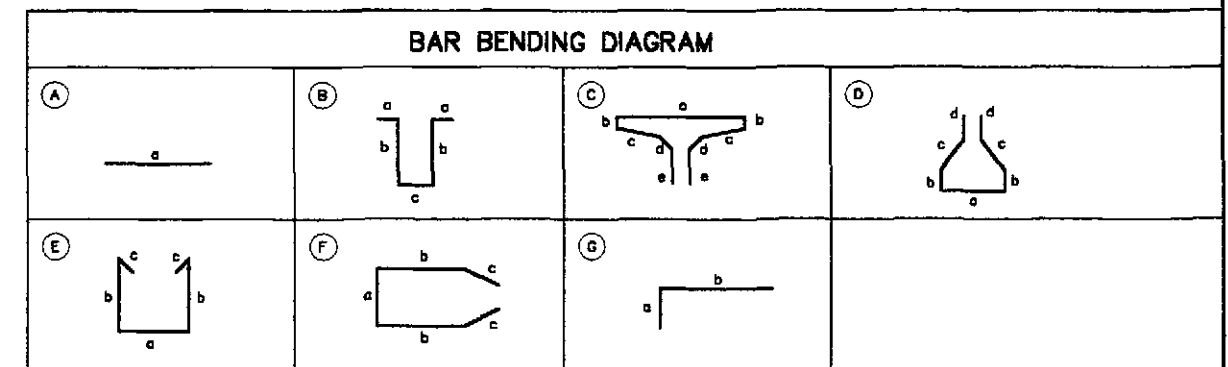


D END BLOCK REINF. DETAIL
SCALE 1:40



E END BLOCK DOWELS DETAIL
SCALE 1:40

1 DETAILS OF AASHTO GIRDER TYPE V (EXP.-FIX) - 2 of 2
SCALE AS SHOWN

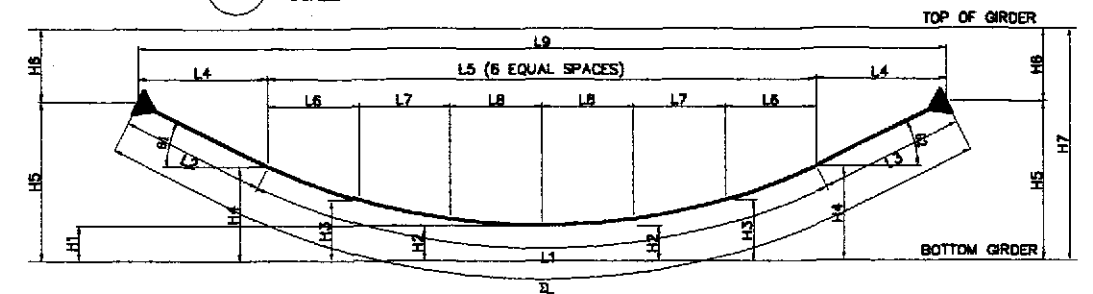
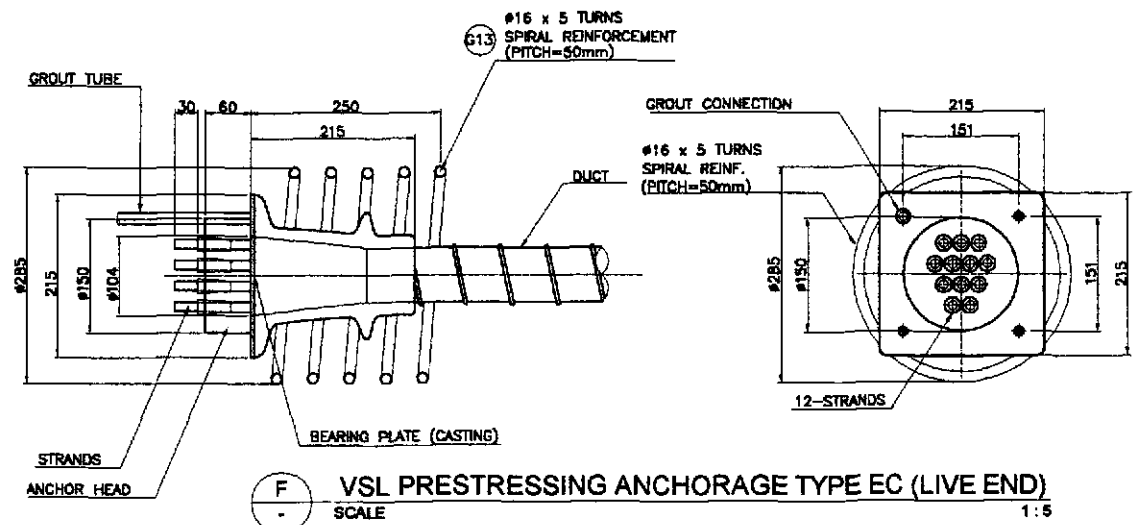
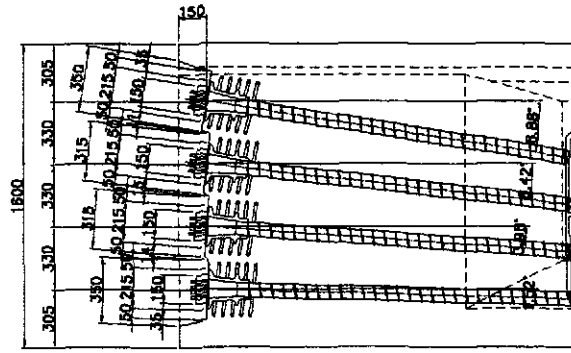
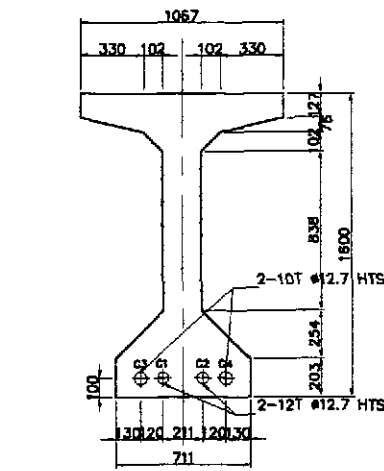
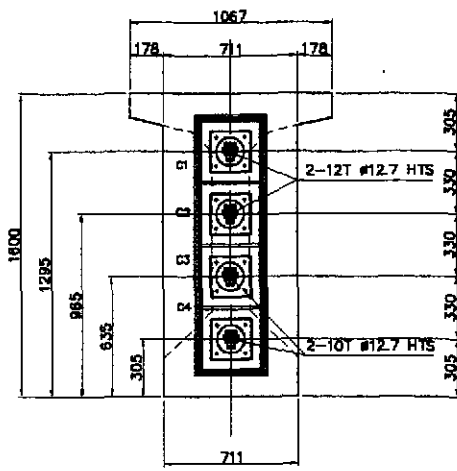
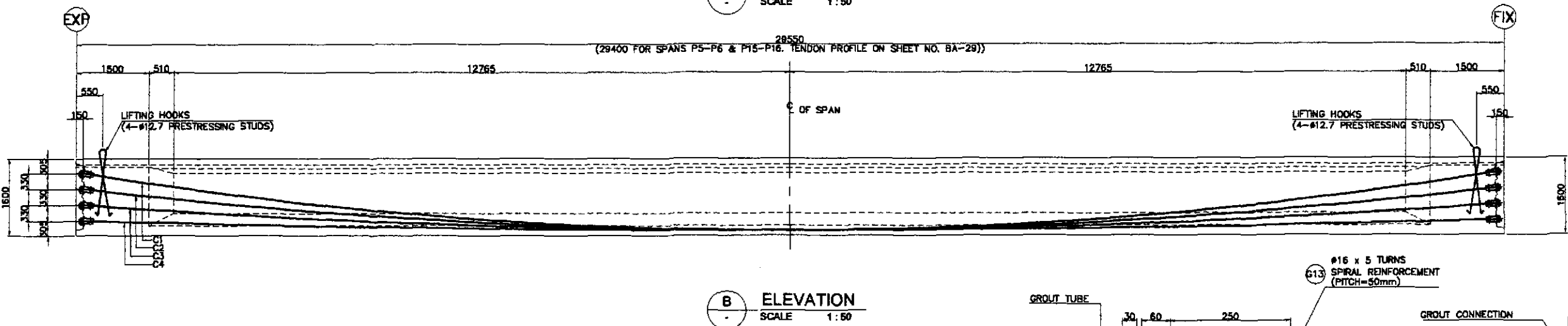
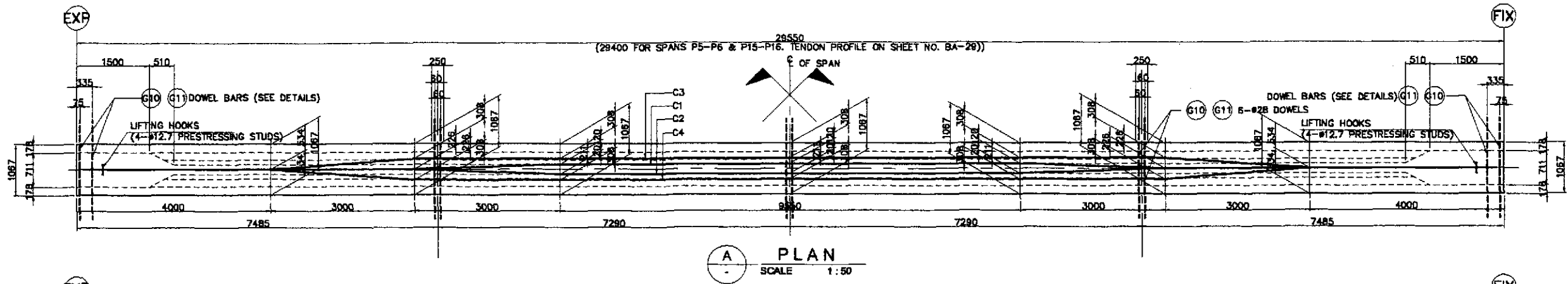


SCHEDULE OF REINFORCEMENT

LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION (mm) OUT TO OUT				LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (kg)		REMARKS
				a	b	c	d				GRADE 40	GRADE 80	
	G1	20	A	28550				28550	6	2.466		437.20	1) Quantities for one (1) girder only.
	G2	25	A	30050				30050	4	3.854		483.30	
	G3	25	A	30050				30050	2	3.854		231.60	
	G4	12	A	29550				29550	6	0.888	157.44		
	G5	12	B	200	1700	103		2203	298	0.888	582.97		2) Splice length, not included.
	G6	12	C	1000	50	340	200	2480	298	0.888	656.27		
	G6a	12	C	1000	150	340	200	2680	298	0.888	709.19		3) Bar mark G10 is for interior girder only.
	G7	12	D	635	160	550	150	2355	298	0.888	623.19		
	G8	12	E	635	1900	150		4735	32	0.888	134.55		4) Bar mark G11 is for exterior girder only.
	G9	12	F	611	1450	570		4851	14	0.888	57.82		
	G10	25	A	1200				1200	16	3.854		74.00	
	G11	25	G	200	600			800	16	3.854		49.33	
	G12	25	A	1500				1500	32	3.854		185.00	
TOTAL WEIGHT (EXTERIOR GIRDER) =											2921.43	1368.43	
TOTAL WEIGHT (INTERIOR GIRDER) =											2921.43	1391.10	

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

		<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p> <p>Submitted By: DANILLO C. TRAJANO, Project Director Reviewed By: ADRIANO M. DOROY, Chief, Bridge Division Recommended By: GILBERTO S. REYES, Director IV (D/C) Recommended By: MANUEL M. BONJAN, Undersecretary Approved By: SIMEON A. DATUMAMONG, Secretary</p>				<p>PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III</p>		<p>SCALE : AS SHOWN FULL SIZE A1</p>		<p>SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE DETAILS OF AASHTO GIRDER TYPE V (EXP.-FIX) - 2 of 2 (INITIAL STAGE)</p>		<p>SHEET NO. : B10A-28</p>
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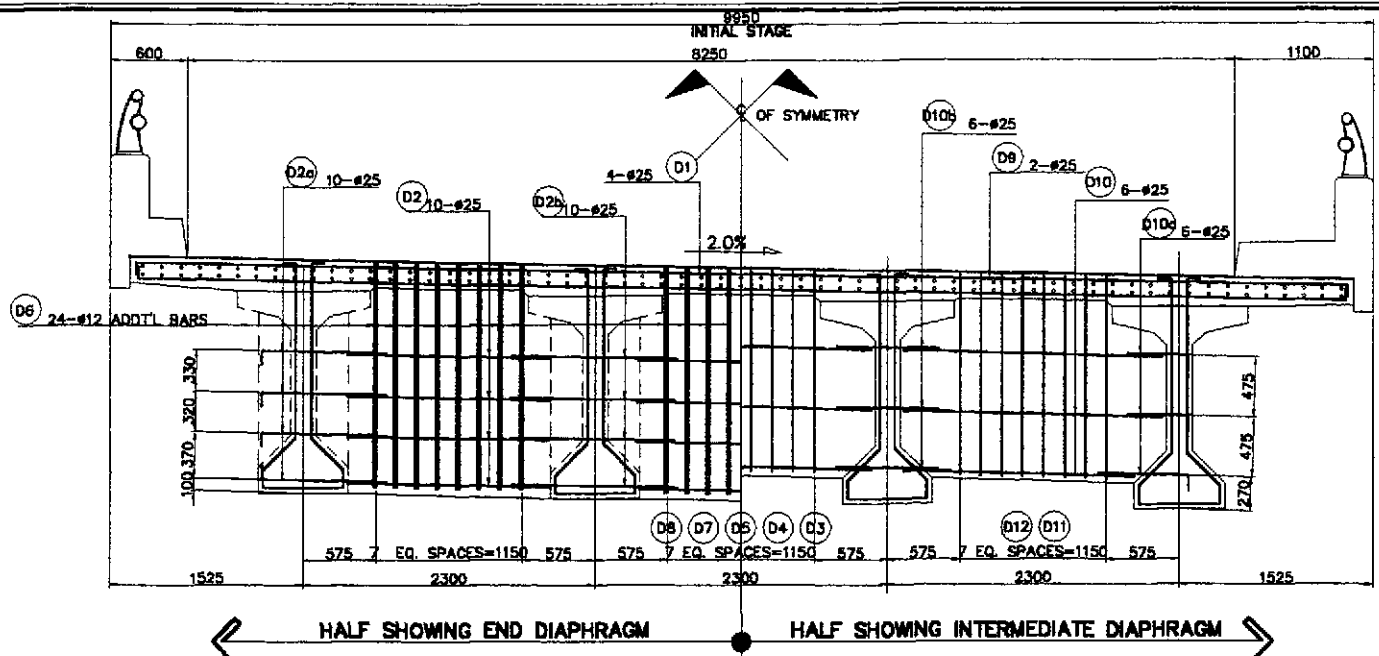
TENDON VERTICAL PROFILE

TENDON DESIGNATION	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	L7 (mm)	L8 (mm)	L9 (mm)	Δ (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	H6 (mm)	H7 (mm)	θ1 (degree)	θ2 (degree)	TYPE - SIZE	FORCE IN TENDON @ JACK BEFORE LOCK OFF (KN)	ANCHORAGE SLIP (mm)	TENDON PRESTRESS FORCE AFTER LOCK-OFF @ MIDSPAN (KN) *	TENDON LENGTH (mm)	TOTAL LENGTH (mm)	TOTAL WEIGHT OF TENDON (kg)
C1	26230	1500	1500	1482	26136	4356.0	4356.0	4356.0	29250	29230	100	206	527	1063	1285	305	1800	8.88°	8.88°	12-dia. 12.7	1545	6	1544	31830	383,160	296,949
C2	26170	1500	1500	1480	26119	4353.2	4353.2	4353.2	29250	29170	100	177	409	796	985	635	1800	6.42°	6.42°	12-dia. 12.7	1545	6	1544	31870	382,440	296,391
C3	26130	1500	1500	1486	26107	4351.2	4351.2	4351.2	29250	29130	100	148	291	531	635	965	1800	3.98°	3.98°	10-dia. 12.7	1290	6	1203	31830	318,300	246,682
C4	26100	1500	1500	1499	26101	4350.2	4350.2	4350.2	29250	29100	100	118	173	265	305	1295	1800	1.52°	1.52°	10-dia. 12.7	1290	6	1203	31800	318,000	246,450
																								TOTAL	1,401,900	1,086,473

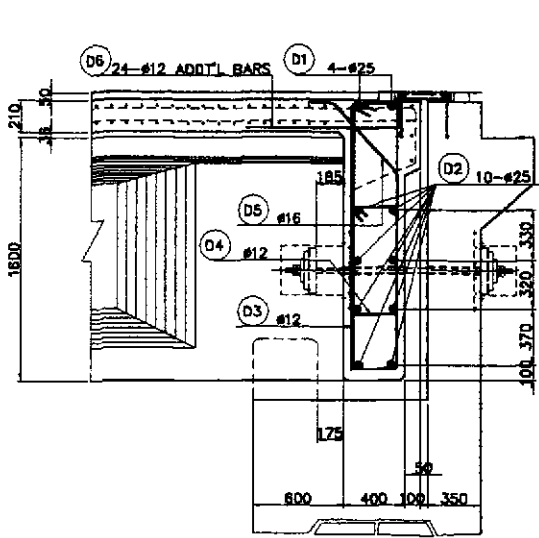
1 DETAILS OF AASHTO GIRDER TYPE V PRESTRESSING CABLE (EXP.-FIX)
SCALE AS SHOWN

NOTE: AFTER FRICTION LOSS AND WEDGE DRAW-IN ONLY.

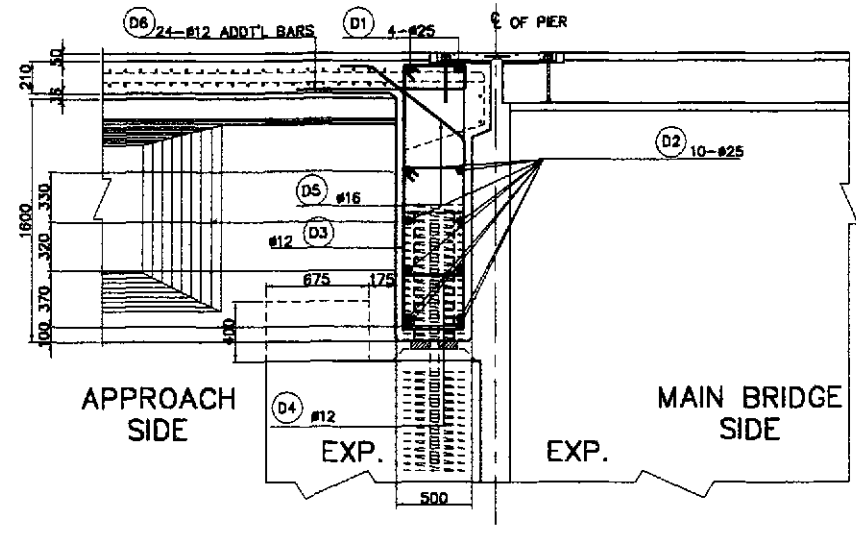
	DESIGNED	DATE	SIGNATURE		PROJECT AND LOCATION:	SCALE:	SHEET CONTENTS:	SHEET NO.:
	CHECKED	10/17/02	F. M. SALAS		THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Paridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	AS SHOWN	BRIDGE NO. 10 PAMPANGA RIVER BRIDGE DETAILS OF AASHTO GIRDER TYPE V PRESTRESSING CABLE (EXP.-FIX) (INITIAL STAGE)	B10A-29
SUBMITTED	1/17/02	Mr. [Signature]	DANILLO C. TRAJANO Project Director	BUREAU OF DESIGN Reviewed By: ADRIANO M. DOROY Chief, Bridge Division	OFFICE OF THE SECRETARY Recommended By: GILBERTO S. REYES Director IV (OC)	Approved By: MANUEL M. BONDAN Undersecretary	Approved By: SIMEON A. DATUMANONG Secretary	FULL SIZE A1



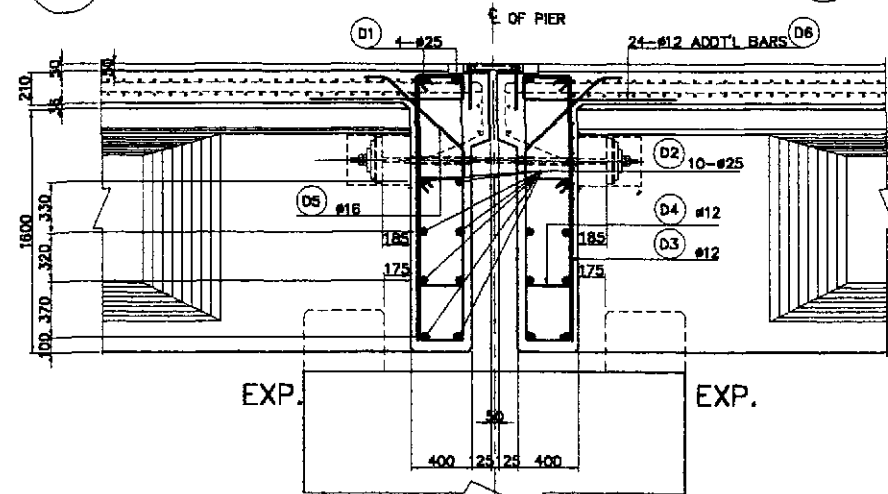
A TRANSVERSE SECTION
SCALE 1:30



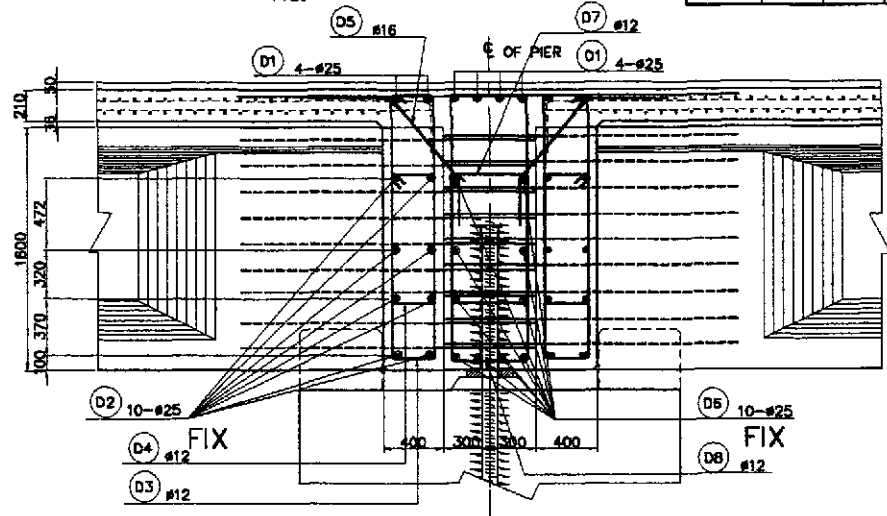
B SECTION @ ABUTMENT
SCALE 1:25



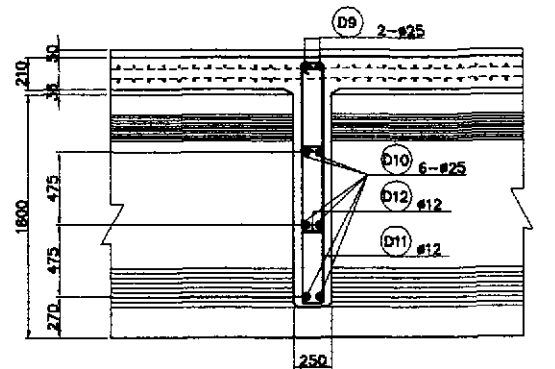
C SECTION @ P6 & P15 (EXP. PIERS)
SCALE 1:25



D SECTION @ EXP. PIER
SCALE 1:25

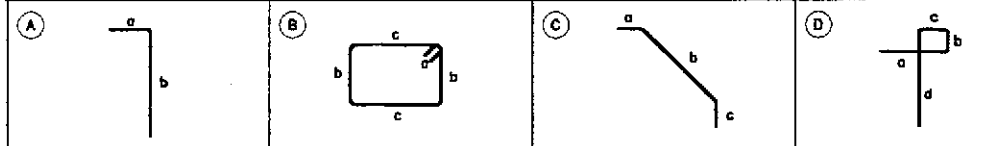


E SECTION @ FIXED PIER
SCALE 1:25



F SECTION @ INTERMEDIATE DIAPHRAGM
SCALE 1:25

BAR BENDING DIAGRAM



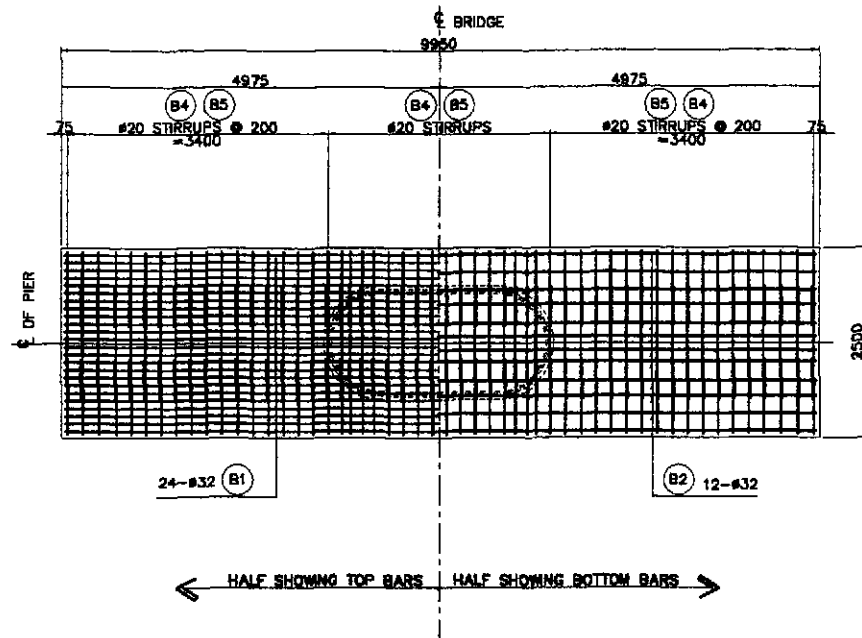
SCHEDULE OF REINFORCEMENT

LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION(mm) OUT TO OUT						LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (kg)	
				a	b	c	d	e	f				GRADE 40	GRADE 60
END DIAPHRAGM @ EXP. PIER	D1	25	STR	9550						9550	8	3.854		294.45
	D2	25	STR	1550						1550	60	3.854		358.42
	D2a	25	A	300	1000					1300	40	3.854		200.41
	D2b	25	STR	1300						1300	40	3.854		200.41
	D3	12	B	125	250	1645				4040	48	0.888	172.20	
	D4	12	B	125	250	690				2130	48	0.888	90.79	
END DIAPHRAGM @ EXP. PIER (PIER 6 & PIER 15)	D1	25	STR	9550						9550	8	3.854		294.44
	D2	25	STR	1550						1550	60	3.854		358.42
	D2a	25	A	300	1000					1300	40	3.854		200.40
	D2b	25	STR	1300						1300	40	3.854		200.40
	D3	12	B	125	250	1645				2260	48	0.888	96.33	
	D4	12	B	125	250	690				4640	48	0.888	197.77	
END DIAPHRAGM @ FIXED PIER	D1	25	STR	9550						9550	12	3.854		441.67
	D2	25	STR	1550						1550	60	3.854		358.42
	D2a	25	A	300	1000					1300	40	3.854		200.41
	D2b	25	STR	1300						1300	40	3.854		200.41
	D3	12	B	125	250	1645				4040	48	0.888	172.20	
	D4	12	B	125	250	850				2450	48	0.888	104.43	
END DIAPHRAGM @ ABUTMENT AT A2	D1	25	STR	9550						9550	4	3.854		147.22
	D2	25	STR	1550						1550	30	3.854		179.21
	D2a	25	A	300	1000					1300	20	3.854		100.20
	D2b	25	STR	1300						1300	20	3.854		100.20
	D3	12	B	125	250	1645				4040	24	0.888	86.10	
	D4	12	B	125	250	690				2130	24	0.888	45.39	
INTERMEDIATE DIAPHRAGM	D5	16	C	300	700	300				1300	24	1.578		49.23
	D6	12	D	1000	160	300	1700			3160	24	0.888		67.50
	D9	25	STR	9550						9550	2	3.854		73.61
	D10	25	STR	1550						1550	18	3.854		107.53
	D10a	25	A	300	500					800	18	3.854		55.50
	D10b	25	STR	800						800	18	3.854		55.50
TOTAL WEIGHT PER END DIAPHRAGM =													248.22	526.93
													112.85	292.14

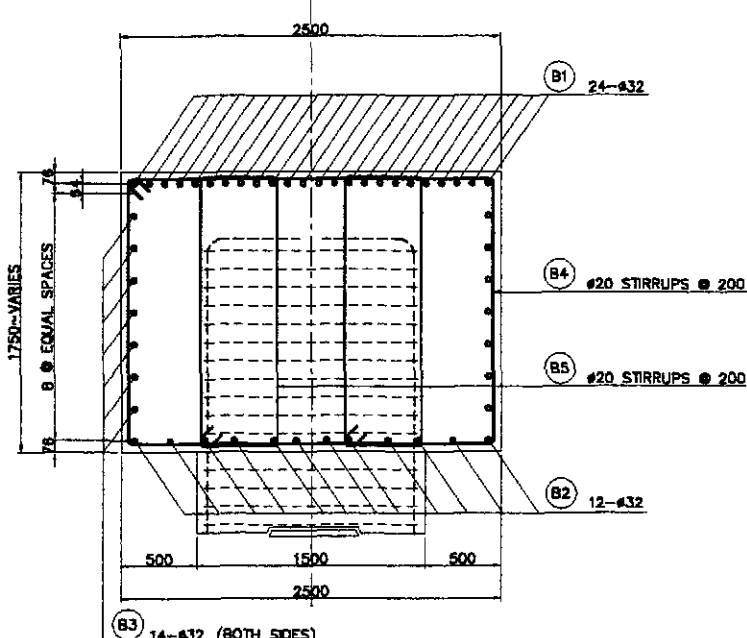
THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES				PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Piaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO.10 PAMPANGA RIVER BRIDGE REINF. DETAILS OF CONTINUITY, END & INTERMEDIATE DIAPHRAGMS (INITIAL STAGE)	SHEET NO. : B10A-30
	CHECKED	10/17/02	<i>[Signature]</i>		DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS							
	SUBMITTED	10/19/02	<i>[Signature]</i>		Submitted By: DANILLO C. TRAJANO Project Director	Reviewed By: ADRIANO M. DOROS Chief, Bridge Division	Recommended By: GILBERTO S. REYES Director IV (DC)	Recommended By: MANUEL M. BONOAN Undersecretary				

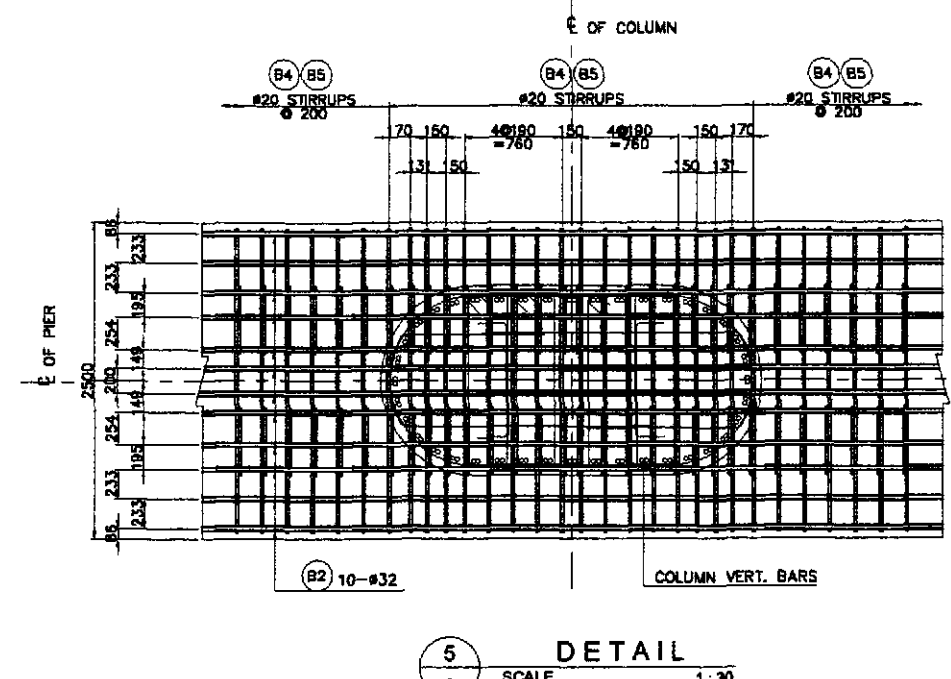
SUBSTRUCTURE



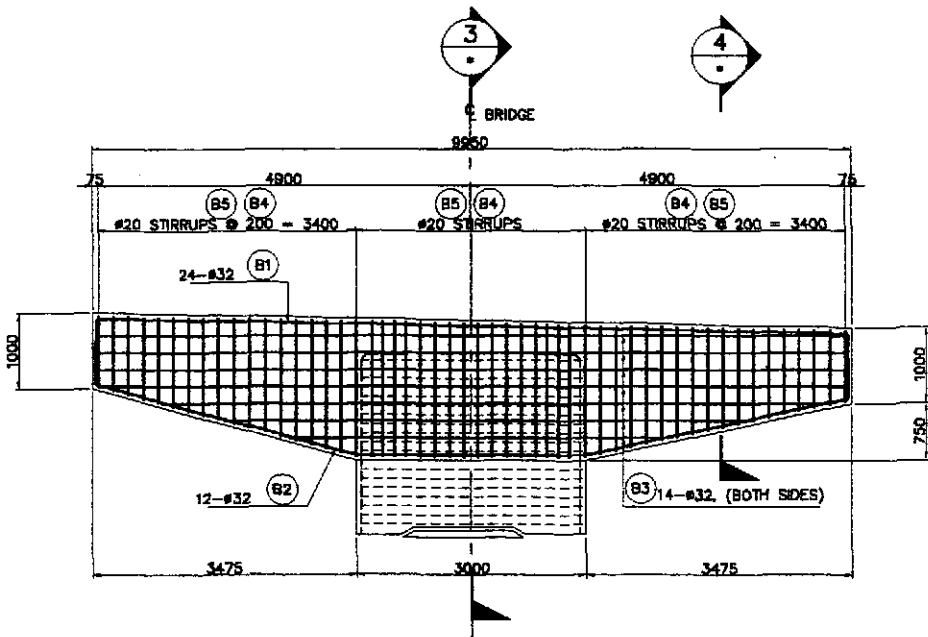
1 PLAN
SCALE 1:50



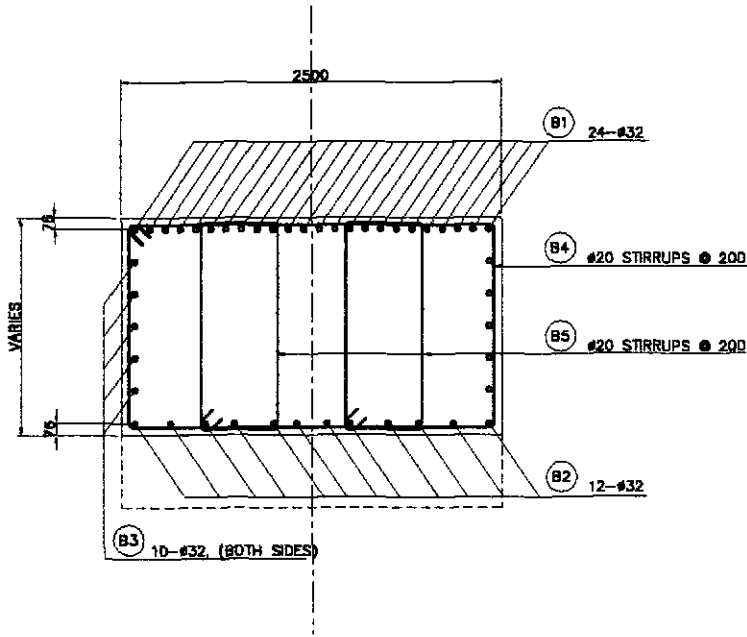
3 SECTION
SCALE 1:25



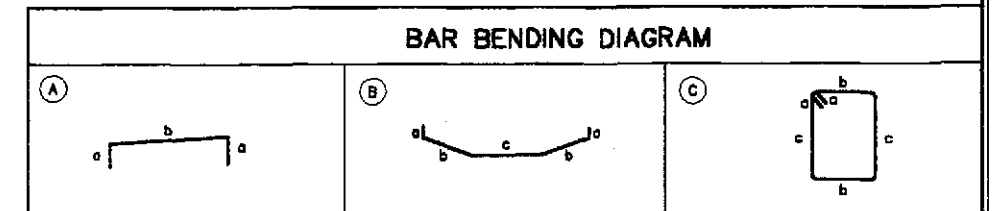
5 DETAIL
SCALE 1:30



2 ELEVATION
SCALE 1:50



4 SECTION
SCALE 1:25

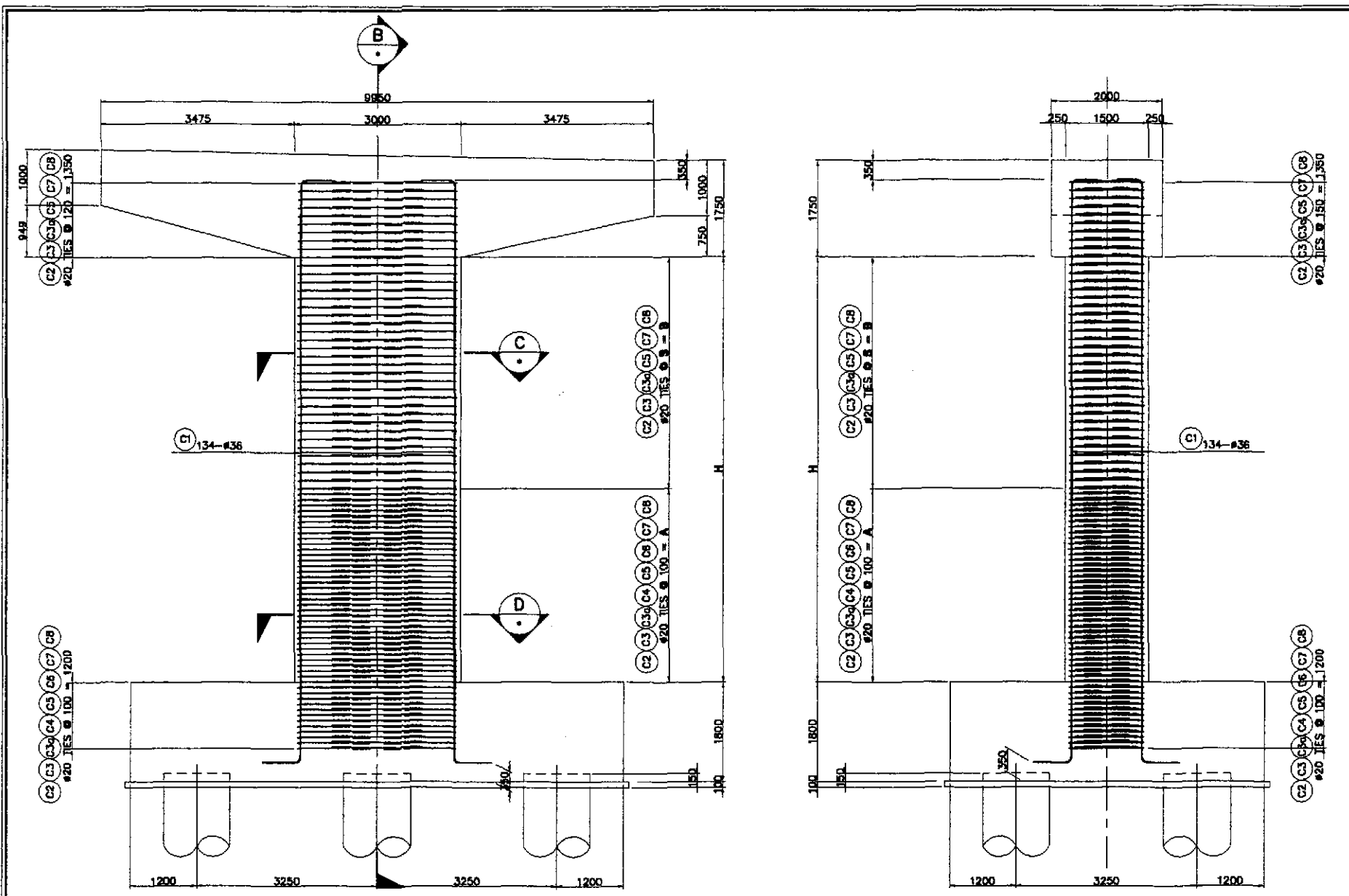


SCHEDULE OF REINFORCEMENT													
LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION (mm) OUT TO OUT						LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (kg)
				a	b	c	d	e	f				
P1 TO P6, P18 TO P28	B1	32	A	480	9300					10260	24	6.313	1554.51
	B2	32	B	480	3500	3000				10460	12	6.313	792.41
	B3	32	STR	4860 (min)						7180	14	6.313	834.58
				8500 (max)									
	B4	20	C	280	1900	850 (min)				6820	48	2.466	819.58
						1750 (max)							
	B5	20	C	280	410	850 (min)				3940	96	2.466	932.74
						1750 (max)							
	TOTAL WEIGHT PER COPING =											4,733.82	
	TOTAL WEIGHT FOR (18) PIERS =											73,741.12	

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

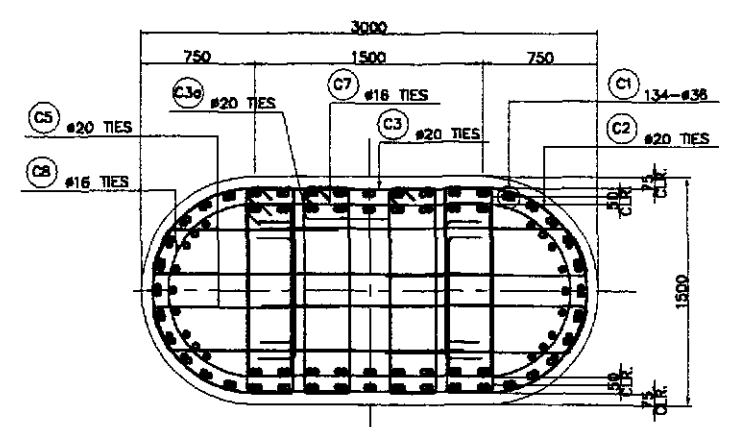
A COPING REINFORCEMENT DETAILS
SCALE AS SHOWN

	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES				PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :	
	CHECKED	10/17/02	F. W. SALAS		DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinarid, Cabanatuan and San Jose Bypasses)		AS SHOWN	BRIDGE NO.10 PAMPANGA RIVER BRIDGE COPING REINFORCEMENT DETAILS	B10A-41
	SUBMITTED	10/17/02	TEAM LEADER		BUREAU OF DESIGN				CABANATUAN BYPASS - CONTRACT PACKAGE III		FULL SIZE A1	(INITIAL STAGE)	
			Submitted By: DANILO C. TRAJANO Project Director		Reviewed By: ADRIANO M. DORCY Chief, Bridge Division		Recommended By: GILBERTO S. REYES Director IV (CIC)		Approved By: MANUEL M. BONGHAN Undersecretary		Approved By: SIMEDON A. DATUMANONG Secretary		

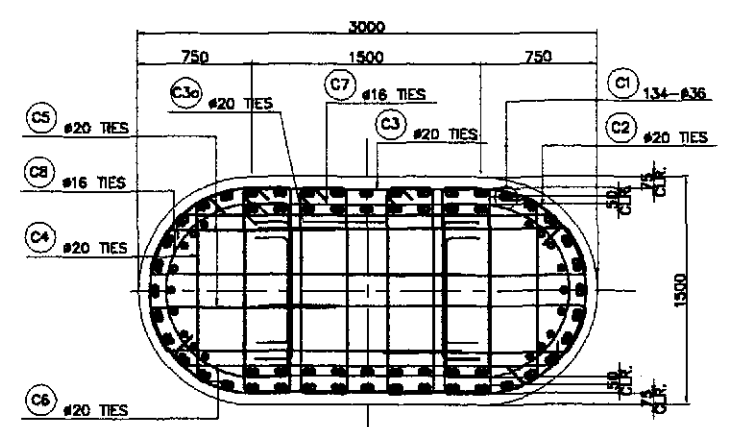


A ELEVATION
SCALE 1:50

B SECTION
SCALE 1:50



C SECTION
SCALE 1:25



D SECTION
SCALE 1:25

1 COLUMN REINFORCEMENT DETAILS TYPE CL-1 (PIER P1, P5, P16, P20 & P22)
SCALE AS SHOWN

BAR BENDING DIAGRAM

SCHEDULE OF REINFORCEMENT

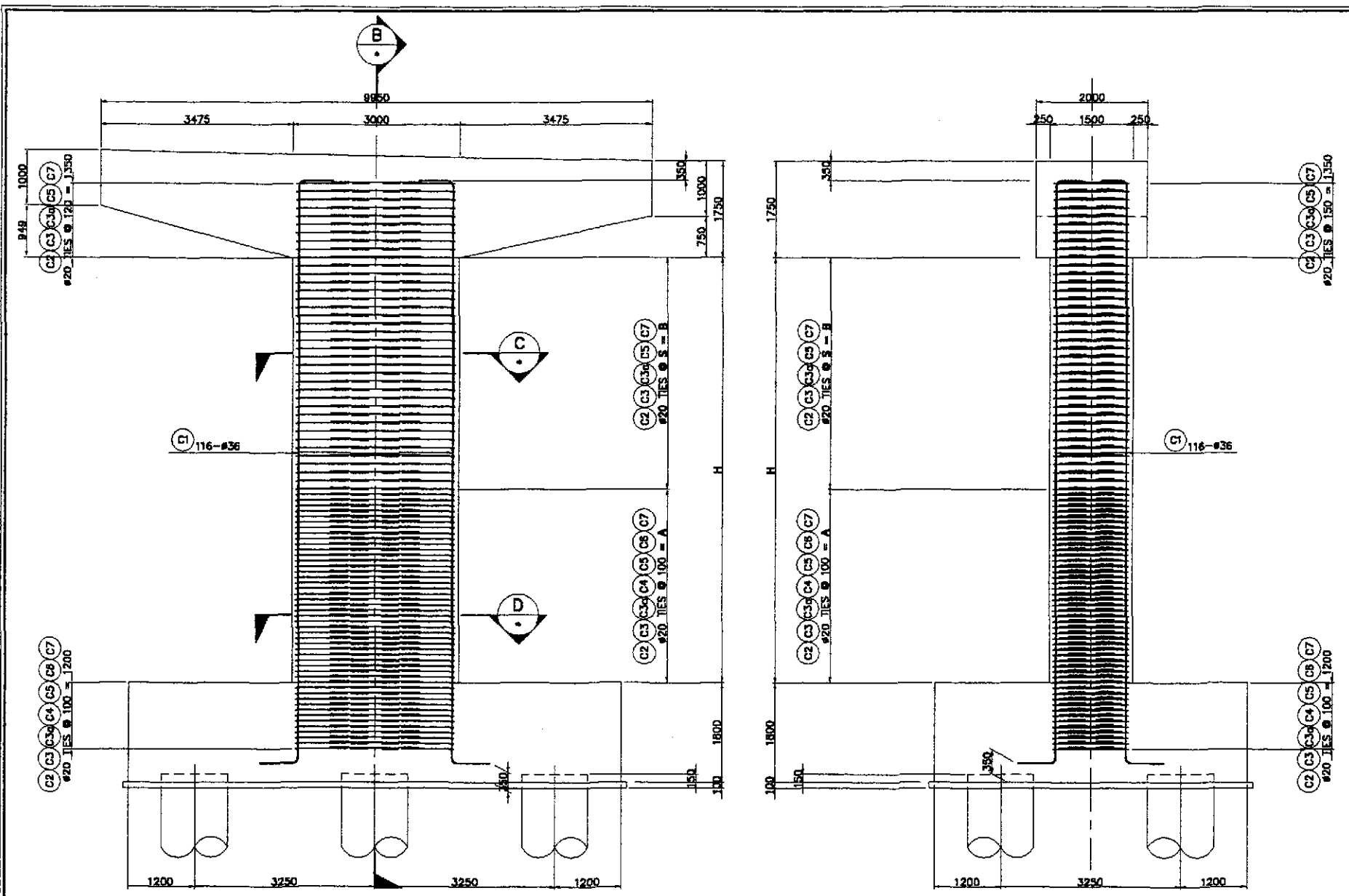
LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION (mm) OUT TO OUT						LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (Kg)	
				a	b	c	d	e	f				GRADE 60	GRADE 40
PIER P1 & P5	C1	36	A	660	8100					9420	134	7.891	10086.88	
	C2	20	B	225	1100	270	2100			5290	82	2.466	1069.70	
	C3	20	C	260	1300	1600				6320	82	2.466	1277.98	
	C3a	20	C	260	1300	300				3720	82	2.466	752.23	
	C4	20	D	260	1000	350				2220	30	2.466	164.24	
	C5	20	E	1100	280	2000	1100	280	2000	6760	144	2.466	2400.50	
	C6	20	D	260	2300	350				3520	30	2.466	260.41	
	C7	16	C	260	1100	1600				5920	41	1.579		383.25
	C8	16	B	225	1100	270	1800			4990	41	1.579		323.05
												WEIGHT FOR GRADE 60 =	18011.83	
												WEIGHT FOR GRADE 40 =	0	706.30
												TOTAL WEIGHT FOR 2 PIERS :		
												WEIGHT FOR GRADE 60 =	32023.88	
												WEIGHT FOR GRADE 40 =	0	1412.60
PIER P16, P20 & P22	C1	36	A	660	10100					11420	134	7.891	12228.47	
	C2	20	B	225	1100	270	2100			5290	78	2.466	1017.52	
	C3	20	C	260	1300	1600				6320	78	2.466	1215.64	
	C3a	20	C	260	1300	300				3720	78	2.466	715.53	
	C4	20	D	260	1000	350				2220	30	2.466	164.24	
	C5	20	E	1100	280	2000	1100	280	2000	6760	170	2.466	2833.83	
	C6	20	D	260	2300	350				3520	30	2.466	260.41	
	C7	16	C	260	1100	1600				5920	39	1.579		384.56
	C8	16	B	225	1100	270	1800			4990	39	1.579		307.29
												WEIGHT FOR GRADE 60 =	18435.73	
												WEIGHT FOR GRADE 40 =	0	671.65
												TOTAL WEIGHT FOR 3 PIERS :		
												WEIGHT FOR GRADE 60 =	55307.19	
												WEIGHT FOR GRADE 40 =	0	2015.55

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

SCHEDULE OF DIMENSIONS

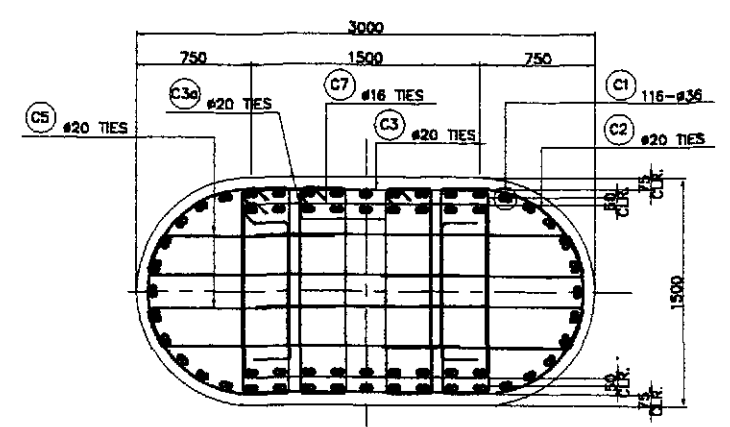
PIER	H (mm)	A (mm)	B (mm)	S (mm)
P1, P5	5250	3000	2250	100
P16, P20, P22	7250	3000	4250	150

	DESIGNED	DATE	SIGNATURE		PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :	
	CHECKED	10/17/02	F. M. SALAS		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	BUREAU OF DESIGN	OFFICE OF THE SECRETARY	BRIDGE NO.10 PAMPANGA RIVER BRIDGE COLUMN REINFORCEMENT DETAILS TYPE CL-1 (PIER P1, P5, P16,P20 & P22) (INITIAL STAGE)	B10A-42
	SUBMITTED	10/19/02	J.C. SANTOS		BUREAU OF DESIGN	OFFICE OF THE SECRETARY	AS SHOWN	FULL SIZE A1	

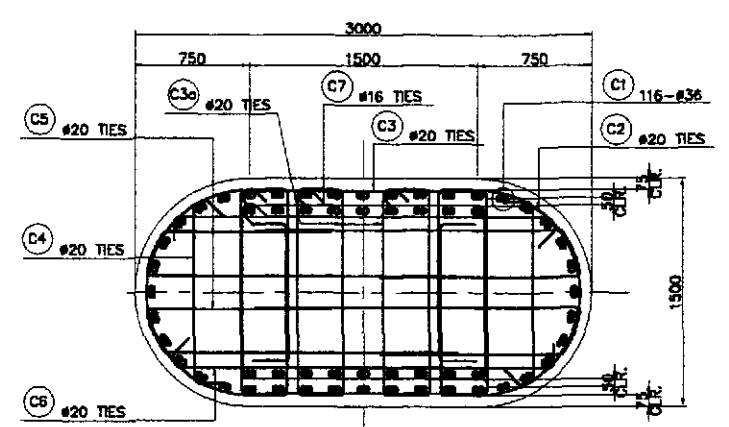


A ELEVATION
SCALE 1:50

B SECTION
SCALE 1:50



C SECTION
SCALE 1:25



D SECTION
SCALE 1:25

1 COLUMN REINFORCEMENT DETAILS TYPE CL-2 (PIER P2, P4, P17, P19, P23, P25 & P26) SHOWN
SCALE AS

BAR BENDING DIAGRAM

SCHEDULE OF REINFORCEMENT

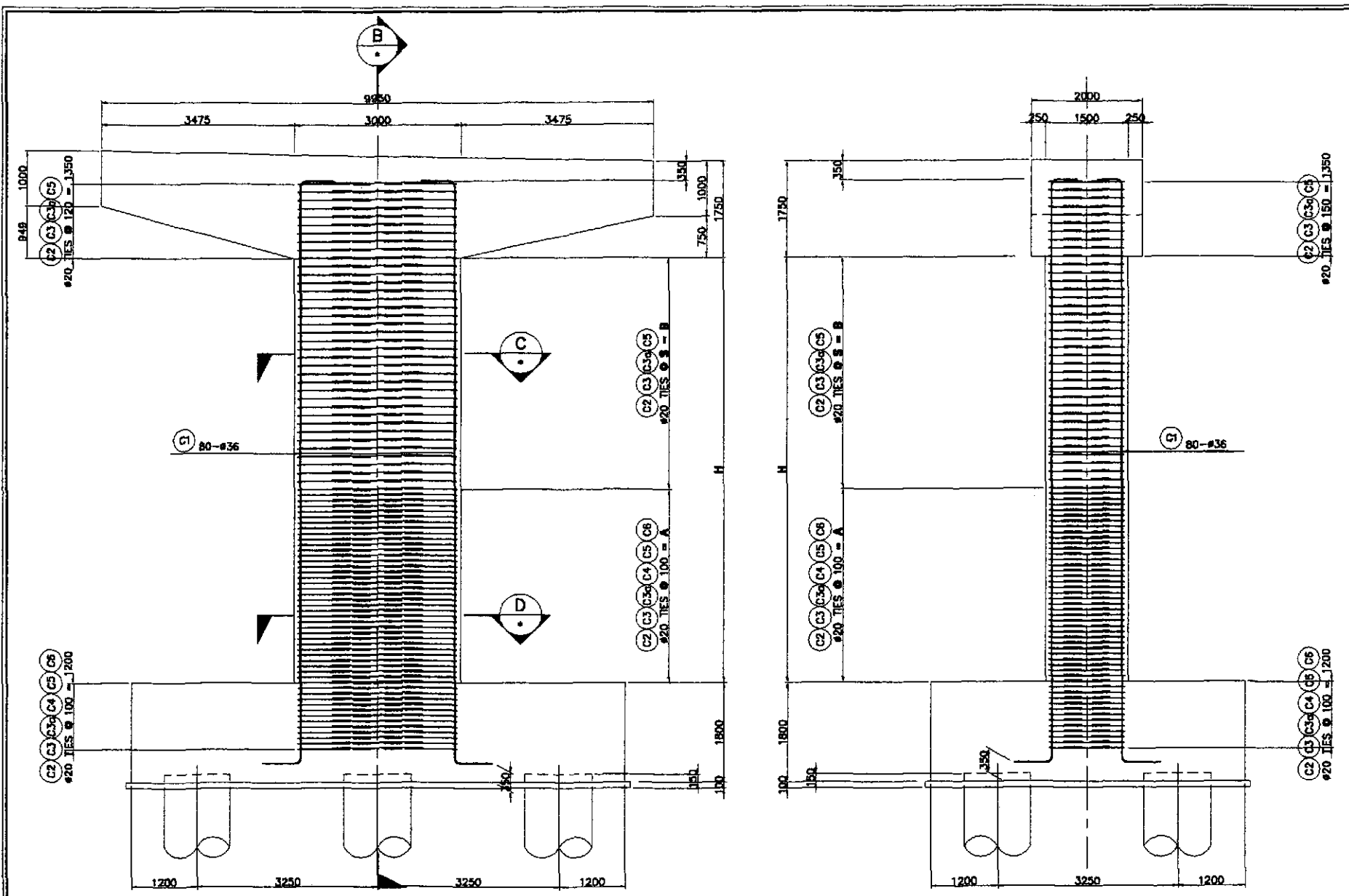
LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION(mm) OUT TO OUT						LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (Kg)		
				a	b	c	d	e	f				GRADE 60	GRADE 40	
PIER P2 & P4	C1	36	A	660	8100					9420	116	7.991	8731.93		
	C2	20	B	225	1100	270	2100			5290	82	2.466	1069.70		
	C3	20	C	260	1300	1600				6320	82	2.466	1277.88		
	C3a	20	C	260	1300	300				3720	82	2.466	752.23		
	C4	20	D	260	1000	350				2220	30	2.466	164.24		
	C5	20	E	1100	280	2000	1100	280	2000	6760	144	2.466	2400.50		
	C6	20	D	260	2300	350				3520	30	2.466	260.41		
C7	16	B	280	1100	1600				4820	41	1.579		312.04		
												WEIGHT FOR GRADE 60	=	14,856.99	
												WEIGHT FOR GRADE 40	=	0	312.04
												TOTAL WEIGHT FOR 2 PIERS :			
												WEIGHT FOR GRADE 60	=	29,313.88	
												WEIGHT FOR GRADE 40	=	0	624.08
PIER P17, P19 & P23, P25 & P26	C1	36	A	660	8100					11420	116	7.991	10585.84		
	C2	20	B	225	1100	270	2100			5280	78	2.466	1017.52		
	C3	20	C	260	1300	1600				6320	78	2.466	1215.64		
	C3a	20	C	260	1300	300				3720	78	2.466	715.53		
	C4	20	D	260	1000	350				2220	30	2.466	164.24		
	C5	20	E	1100	280	2000	1100	280	2000	6760	170	2.466	2833.93		
	C6	20	D	260	2300	350				3520	30	2.466	260.41		
C7	16	B	280	1100	1600				4820	39	1.579		296.82		
												WEIGHT FOR GRADE 60	=	16793.10	
												WEIGHT FOR GRADE 40	=	0	296.82
												TOTAL WEIGHT FOR 5 PIERS :			
												WEIGHT FOR GRADE 60	=	83865.50	
												WEIGHT FOR GRADE 40	=	0	1484.10

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

SCHEDULE OF DIMENSIONS

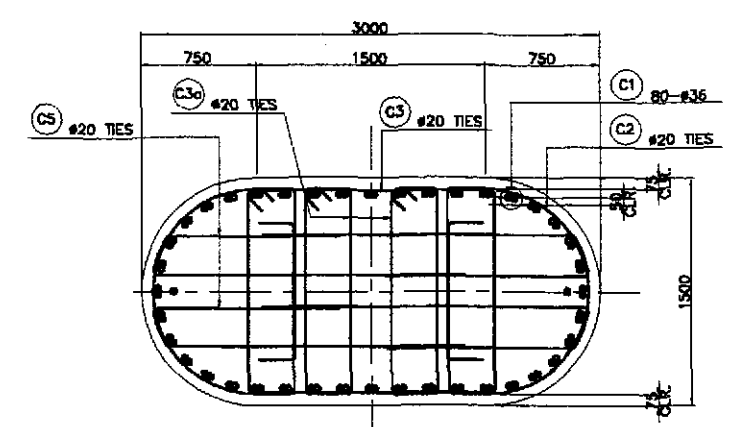
PIER	H (mm)	A (mm)	B (mm)	S (mm)
P2, P4	5250	3000	2250	100
P17, P19, P23, P25 & P26	7250	3000	4250	150

	DESIGNED	DATE	SIGNATURE		PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	10/17/02	F. M. SALAS	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)	AS SHOWN	BRIDGE NO.10 PAMPANGA RIVER BRIDGE COLUMN REINF. DETAILS TYPE CL-2 (PIER P2, P4, P17, P19, P23, P25 & P26) (INITIAL STAGE)	B10A-43
	SUBMITTED	10/19/02	J. C. SANTOS	BUREAU OF DESIGN OFFICE OF THE SECRETARY	CABANATUAN BYPASS - CONTRACT PACKAGE III	FULL SIZE A1		

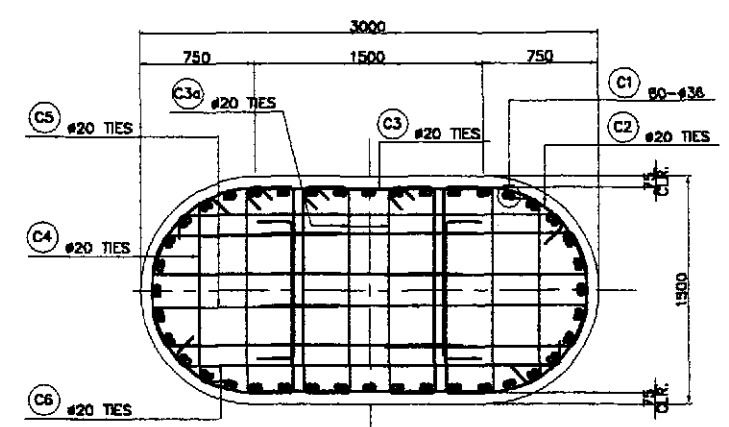


A ELEVATION
SCALE 1:50

B SECTION
SCALE 1:50

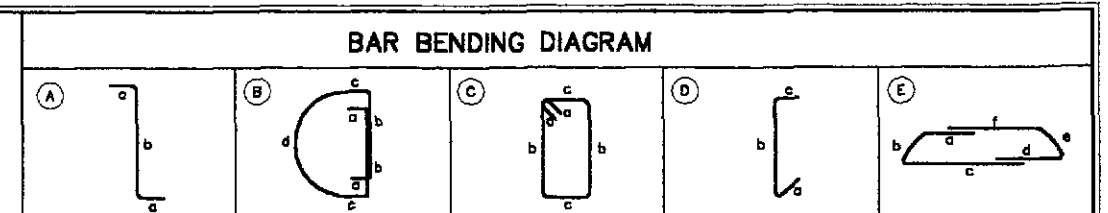


C SECTION
SCALE 1:25



D SECTION
SCALE 1:25

1 COLUMN REINFORCEMENT DETAILS TYPE CL-3 (PIER P3, P18, P21 & P24)
SCALE AS SHOWN



SCHEDULE OF REINFORCEMENT

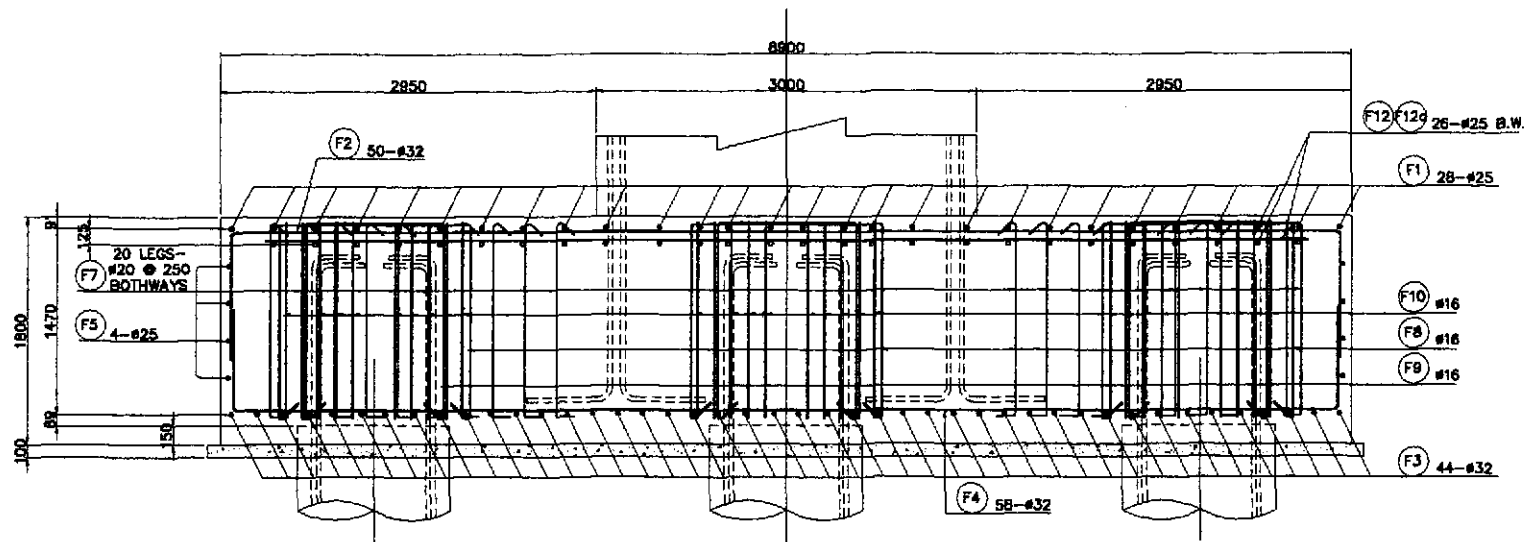
LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION (mm) OUT TO OUT						LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (kg)	
				a	b	c	d	e	f				GRADE 80	GRADE 40
PIER P3	C1	36	A	660	8100					9420	80	7.991	5022.02	
	C2	20	B	225	1100	270	2100			5290	82	2.466	1069.70	
	C3	20	C	260	1300	1600				6320	82	2.466	1277.98	
	C3a	20	C	260	1300	300				3720	82	2.466	752.23	
	C4	20	D	260	1000	350				2220	30	2.466	184.24	
	C5	20	E	1100	280	2000	1100	280	2000	6760	144	2.466	2400.50	
C6	20	D	260	2300	350				3520	30	2.466	260.41		
												WEIGHT FOR GRADE 80 =	11947.07	
												WEIGHT FOR GRADE 40 =	0	
												TOTAL WEIGHT FOR 1 PIERS :		
												WEIGHT FOR GRADE 80 =	11947.07	
												WEIGHT FOR GRADE 40 =	0	
PIER P18, P21 & P24	C1	36	A	660	8100					11420	80	7.991	7300.58	
	C2	20	B	225	1100	270	2100			5290	78	2.466	1017.52	
	C3	20	C	260	1300	1600				6320	78	2.466	1215.64	
	C3a	20	C	260	1300	300				3720	78	2.466	715.53	
	C4	20	D	260	1000	350				2220	30	2.466	164.24	
	C5	20	E	1100	280	2000	1100	280	2000	6760	170	2.466	2833.83	
C6	20	D	260	2300	350				3520	30	2.466	260.41		
												WEIGHT FOR GRADE 80 =	13507.84	
												WEIGHT FOR GRADE 40 =	0	
												TOTAL WEIGHT FOR 3 PIERS :		
												WEIGHT FOR GRADE 80 =	40523.52	
												WEIGHT FOR GRADE 40 =	0	

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

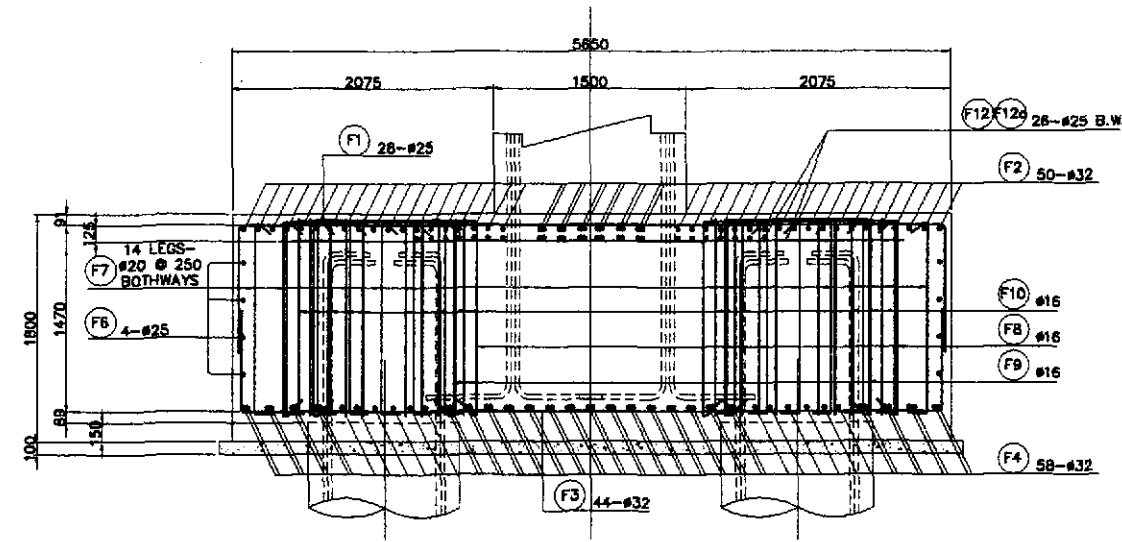
SCHEDULE OF DIMENSIONS

PIER	H (mm)	A (mm)	B (mm)	S (mm)
P3	5250	3000	2250	100
P18, P21, P24	7250	3000	4250	150

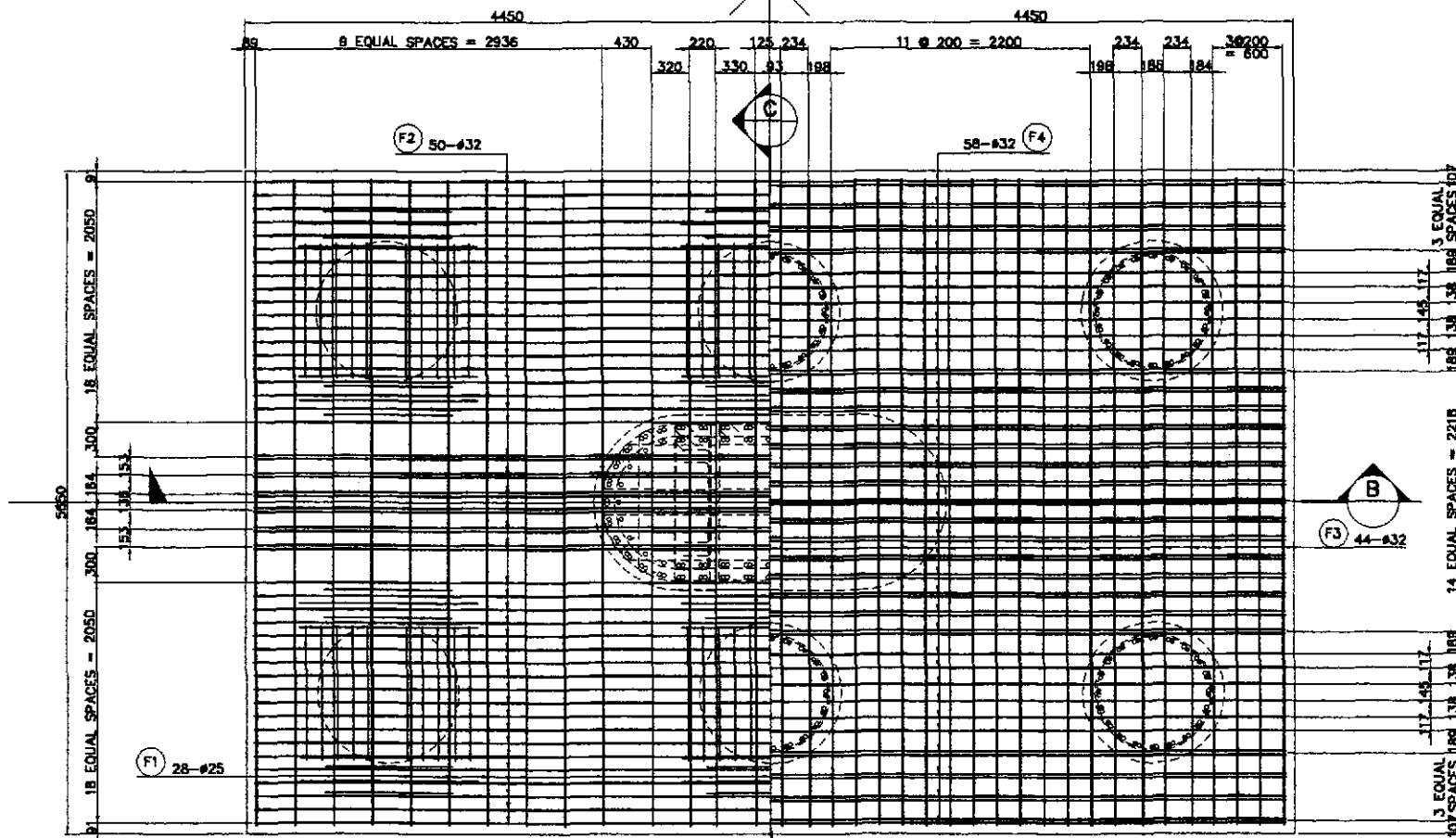
	DATE: 10/18/02 DESIGNED: F. M. SALAS CHECKED: J. SANTOS SUBMITTED: 10/19/02	SIGNATURE: <i>[Signature]</i> F. M. SALAS J. SANTOS TEAM LEADER	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BUREAU OF DESIGN OFFICE OF THE SECRETARY	PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO.10 PAMPANGA RIVER BRIDGE COLUMN REINFORCEMENT DETAILS TYPE CL-3 (PIER P3, P18, P21 & P24) (INITIAL STAGE)	SHEET NO. : B10A-44
	Submitted By: DANILO C. TRAJANO Project Director	Reviewed By: ADRIANO M. DORCY Chief, Bridge Division	Recommended By: GILBERTO S. REYES Director IV (CIC)	Approved By: MANUEL M. BONGHAN Undersecretary SIMEON A. DATUMANONG Secretary			
	JICA JAPAN INTERNATIONAL COOPERATION AGENCY						



B SECTION
SCALE 1:30

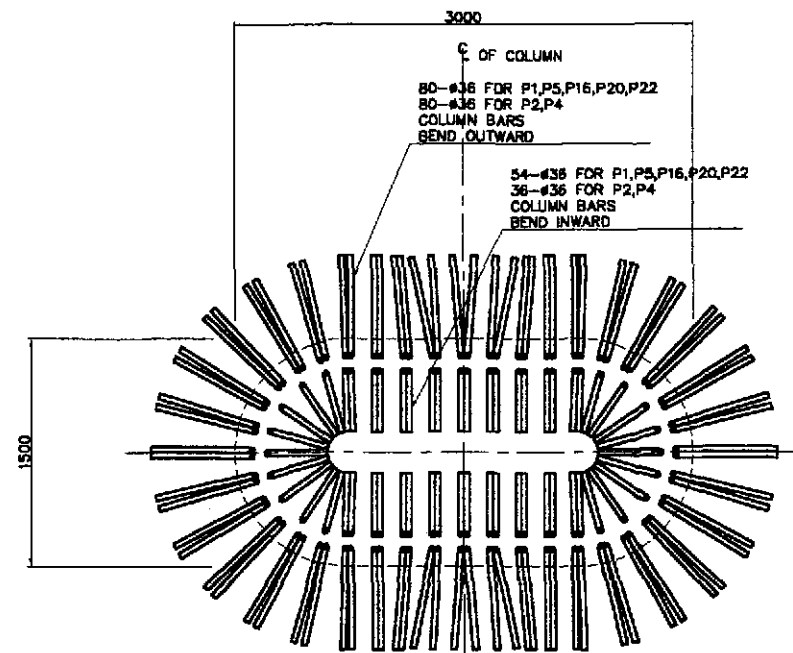


C SECTION
SCALE 1:30



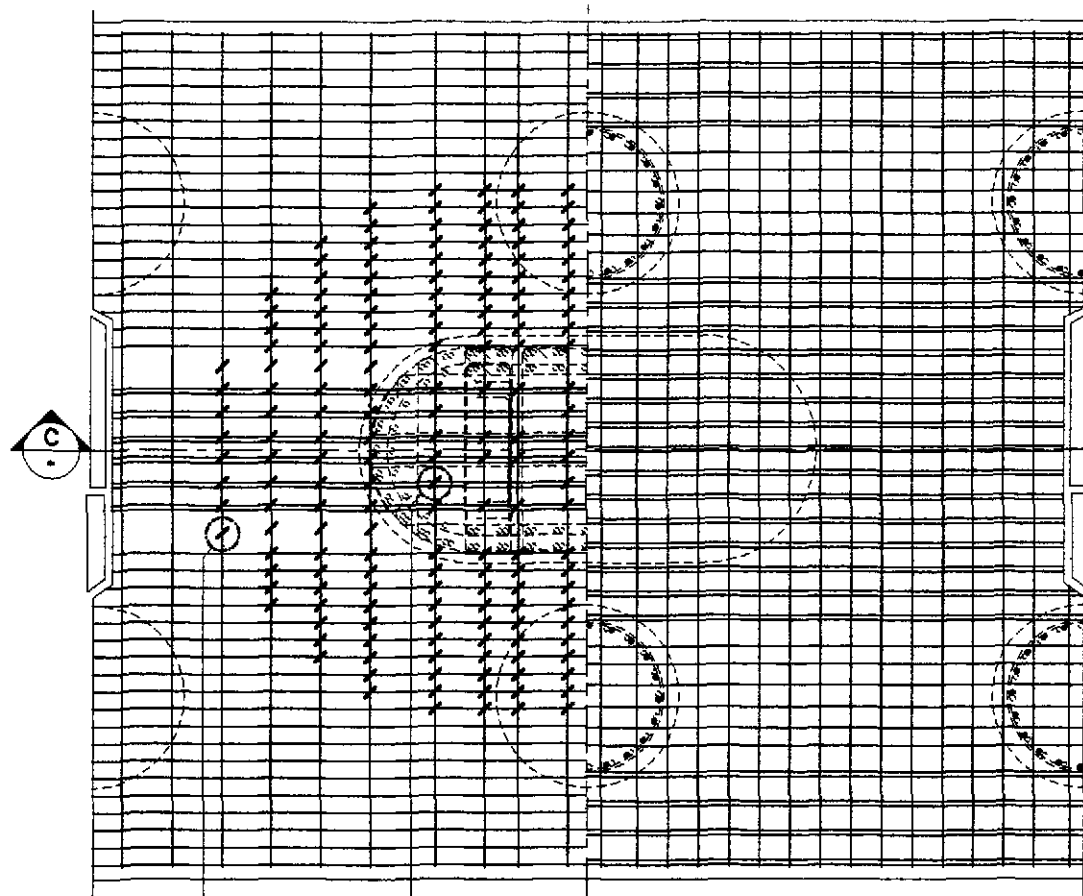
A PLAN
SCALE 1:30

1 PILECAP REINFORCEMENT DETAILS (P1, P2, P4, P5, P16, P20 & P22) - 1 of 2
SCALE AS SHOWN

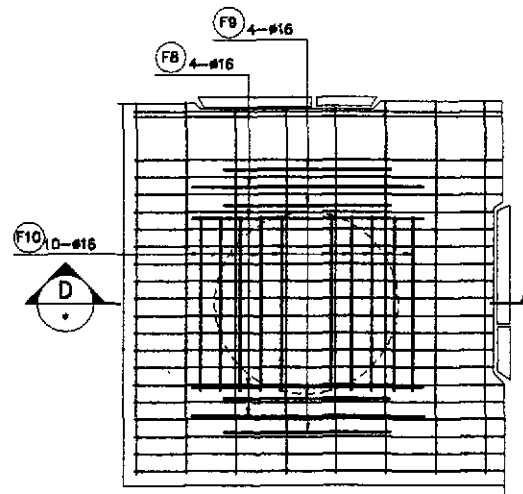


B DETAIL OF COLUMN MAIN BAR ARRANGEMENT @ BOTTOM
SCALE 1:25

	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO.10 PAMPANGA RIVER BRIDGE PILECAP REINFORCEMENT DETAILS (P1, P2, P4, P5, P16, P20 & P22) - 1 of 2 (INITIAL STAGE)	SHEET NO. : B10A-45	
	CHECKED	10/17/02	F. M. SALAS		BUREAU OF DESIGN							
SUBMITTED	10/19/02	J. C. SANTOS	TEAM LEADER	OFFICE OF THE SECRETARY			Approved By: (See cover sheet for Signature/Approval) SIMEON A. DATUMANONG Secretary					
				DANILLO C. TRAJANO Project Director			ADRIANO M. DORAY Chief, Bridge Division			GILBERTO S. REYES Director IV (OC)		
				FURL - PMO			Recommended By: MANUEL M. BONDAN Undersecretary					

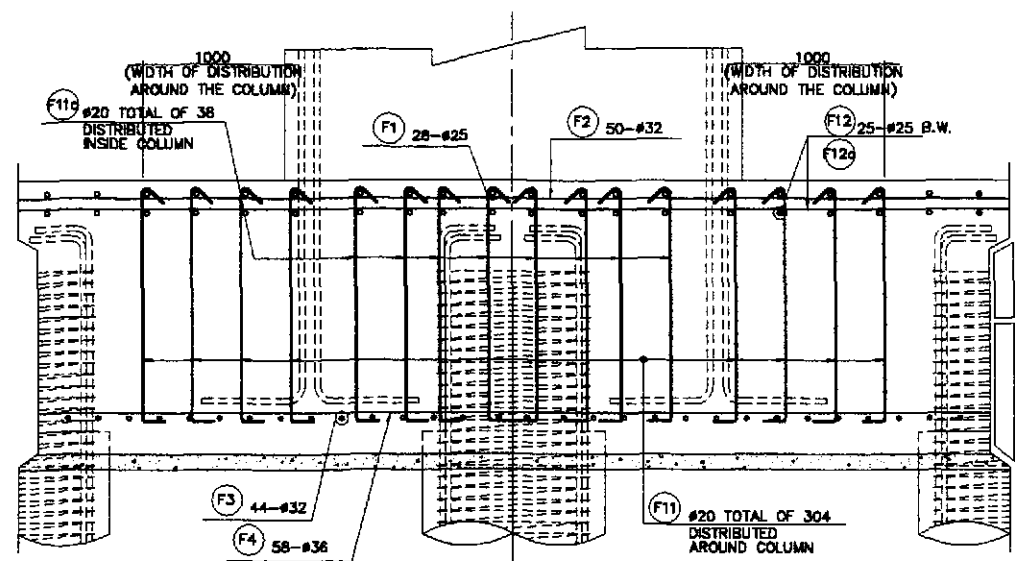


A PLAN
SCALE 1:25

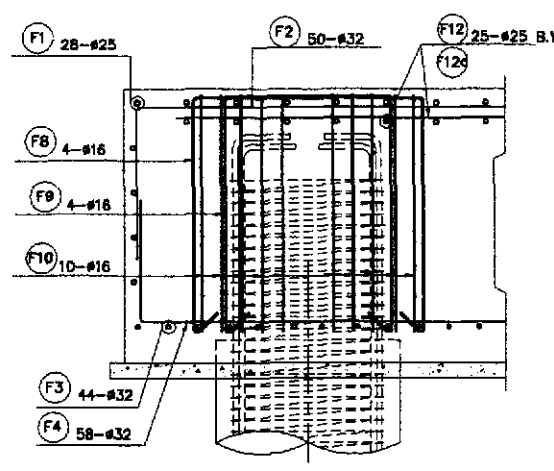


TYPICAL ON PILE-PILECAP CONNECTION

B PLAN
SCALE 1:25



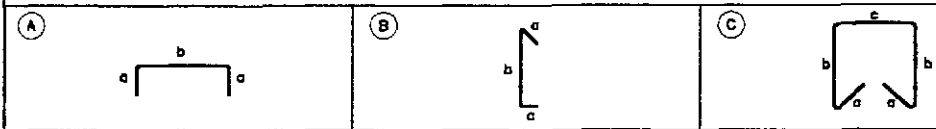
C SECTION
SCALE 1:25



D SECTION
SCALE 1:25

1 PILECAP REINFORCEMENT DETAILS (P1, P2, P4, P5, P16, P20 & P22) - 2 of 2
SCALE AS SHOWN

BAR BENDING DIAGRAM



SCHEDULE OF REINFORCEMENT

LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION(mm) OUT TO OUT						LENGTH (mm)	NO. REQD.	UNIT WEIGHT (kg/m)	WEIGHT (kg) GRADE 60	WEIGHT (kg) GRADE 40
				a	b	c	d	e	f					
PILES P1, P2, P4, P5, P16, P20, P22	F1	25	A	1200	5500					7900	28	3.854	852.50	
	F2	32	A	1200	8750					11150	50	6.313	3519.50	
	F3	32	A	1200	5500					7900	44	6.313	2194.40	
	F4	32	A	1200	8750					11150	58	6.313	4082.62	
	F5	25	STR	5500						5500	8	3.854	168.58	
	F6	25	STR	8750						8750	8	3.854	268.78	
	F7	20	B	260	1700					2220	280	2.466	1532.87	
	F8	16	C	100	1700	1500				5100	24	1.579		193.27
	F9	16	C	100	1700	1250				4850	24	1.579		183.80
	F10	16	C	100	1700	1100				4700	26	1.579		192.95
	F11	20	B	260	1700					2220	304	2.466	1664.25	
	F11a	20	B	260	1700					2220	38	2.466	208.03	
F12	25	STR	8750						8750	25	3.854	843.06		
F12a	25	STR	5500						5500	25	3.854	529.93		

WEIGHT FOR GRADE 40 = 570.02 Kgs.
WEIGHT FOR GRADE 60 = 15,866.32 Kgs.

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY

KATAHIRA & ENGINEERS INTERNATIONAL
YEO YACHIKO ENGINEERING CO., LTD.

DATE	SIGNATURE
DESIGNED: 1/18/02	<i>[Signature]</i>
CHECKED: 1/17/02	<i>[Signature]</i>
SUBMITTED: 1/14/02	<i>[Signature]</i>

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

BUREAU OF DESIGN
Submitted By: **DANILO C. TRAJANO**, Project Director
Reviewed By: **ADRIANO M. DORCY**, Chief, Bridge Division
Recommended By: **GILBERTO S. REYES**, Director IV (CIC)

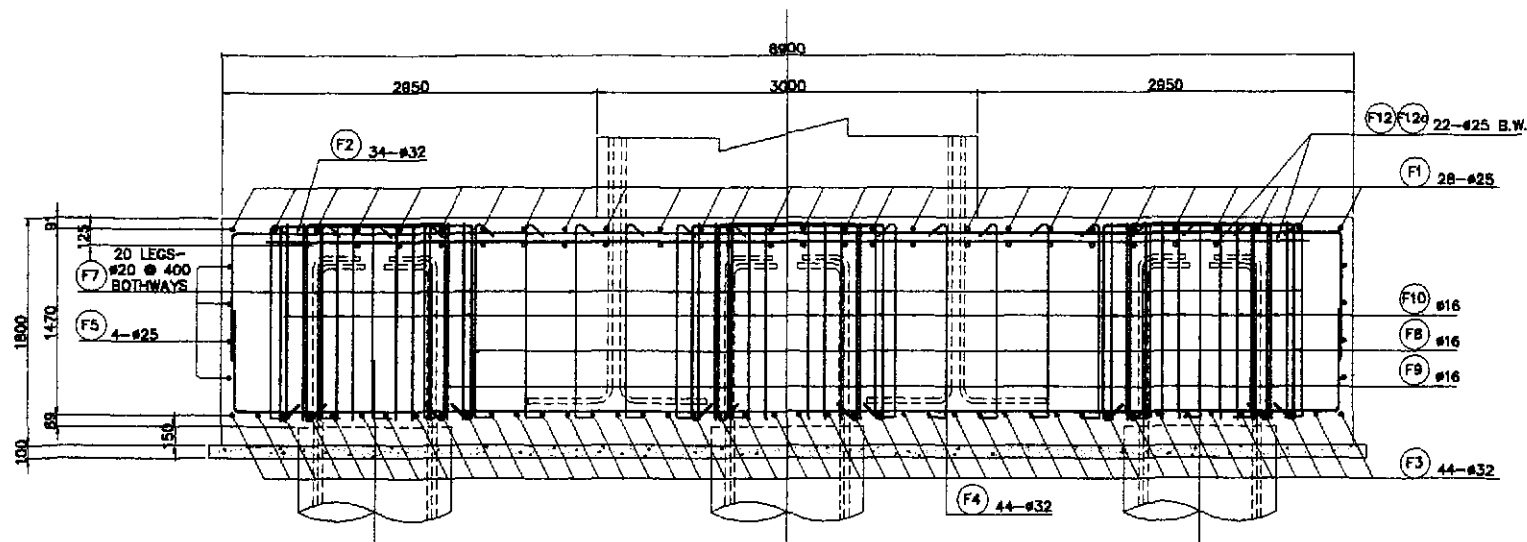
OFFICE OF THE SECRETARY
Recommended By: **MANUEL M. BONDAN**, Undersecretary
Approved By: **SIMEON A. DATUMANONG**, Secretary

PROJECT AND LOCATION :
THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Paridel, Cabanatuan and San Jose Bypasses)
CABANATUAN BYPASS - CONTRACT PACKAGE III

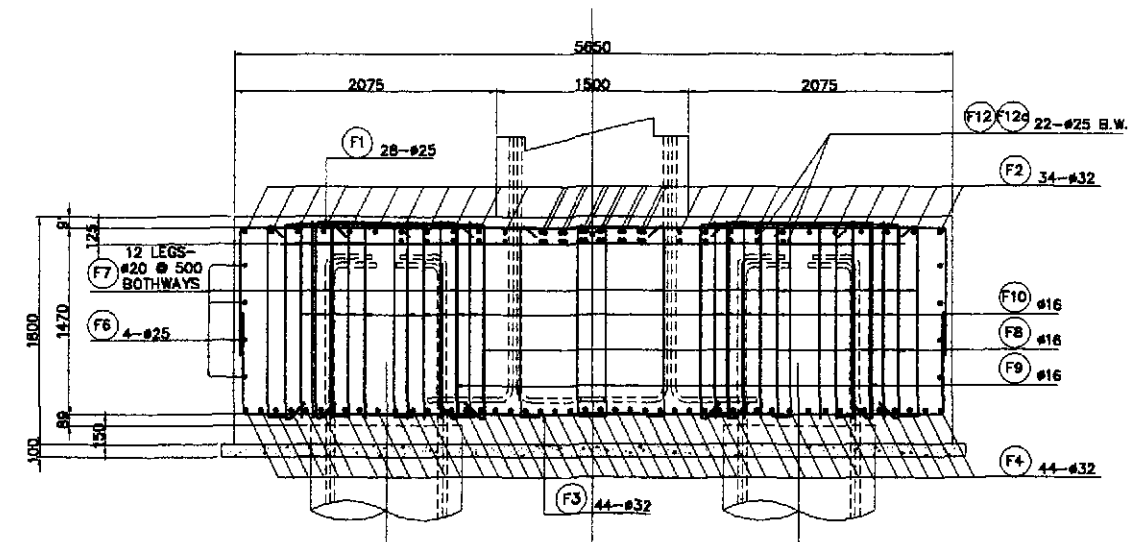
SCALE :
AS SHOWN
FULL SIZE A1

SHEET CONTENTS :
BRIDGE NO.10 PAMPANGA RIVER BRIDGE PILECAP REINFORCEMENT DETAILS (P1, P2, P4, P5, P16, P20 & P22) - 2 of 2 (INITIAL STAGE)

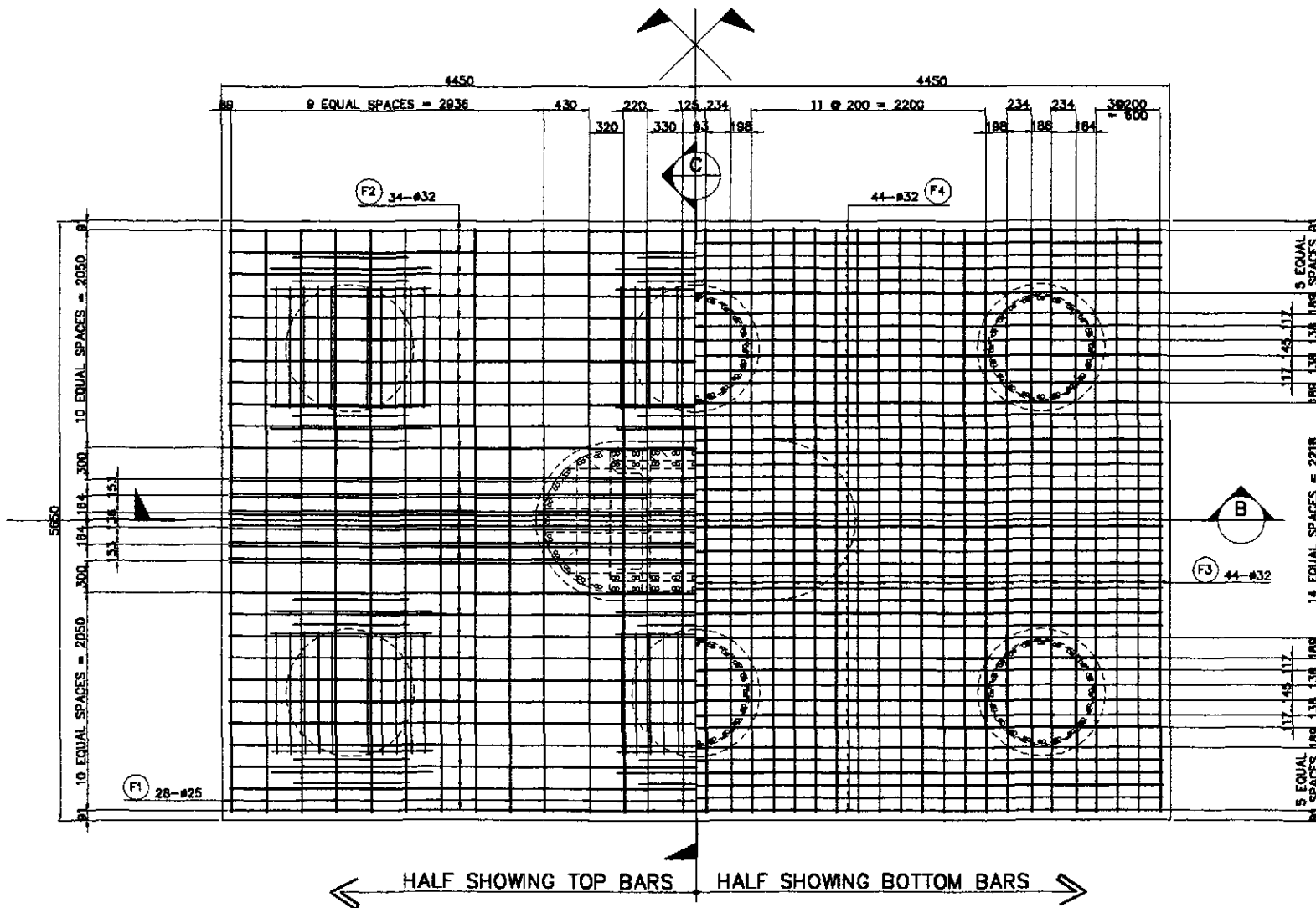
SHEET NO. :
B10A-46



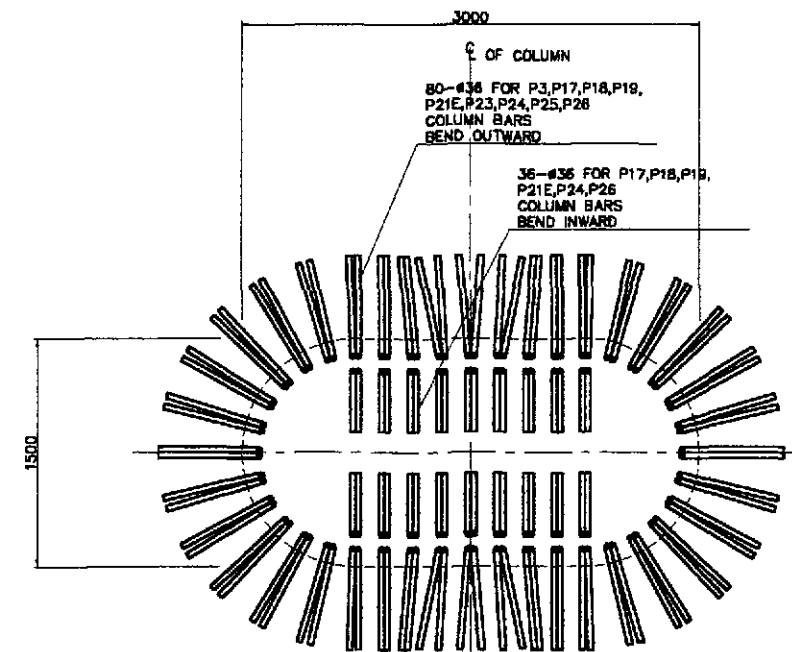
B SECTION
SCALE 1:30



C SECTION
SCALE 1:30



A PLAN
SCALE 1:30



B DETAIL OF COLUMN MAIN BAR ARRANGEMENT @ BOTTOM
SCALE 1:25

1 PILECAP REINFORCEMENT DETAILS (P3, P17 to P19, P21, P23 to P26) - 1 of 2
SCALE AS SHOWN

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS
YEO YACHYO ENGINEERING CO., LTD.

DESIGNED	10/8/02	<i>[Signature]</i>
CHECKED	10/17/02	<i>[Signature]</i>
SUBMITTED	10/19/02	<i>[Signature]</i>

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

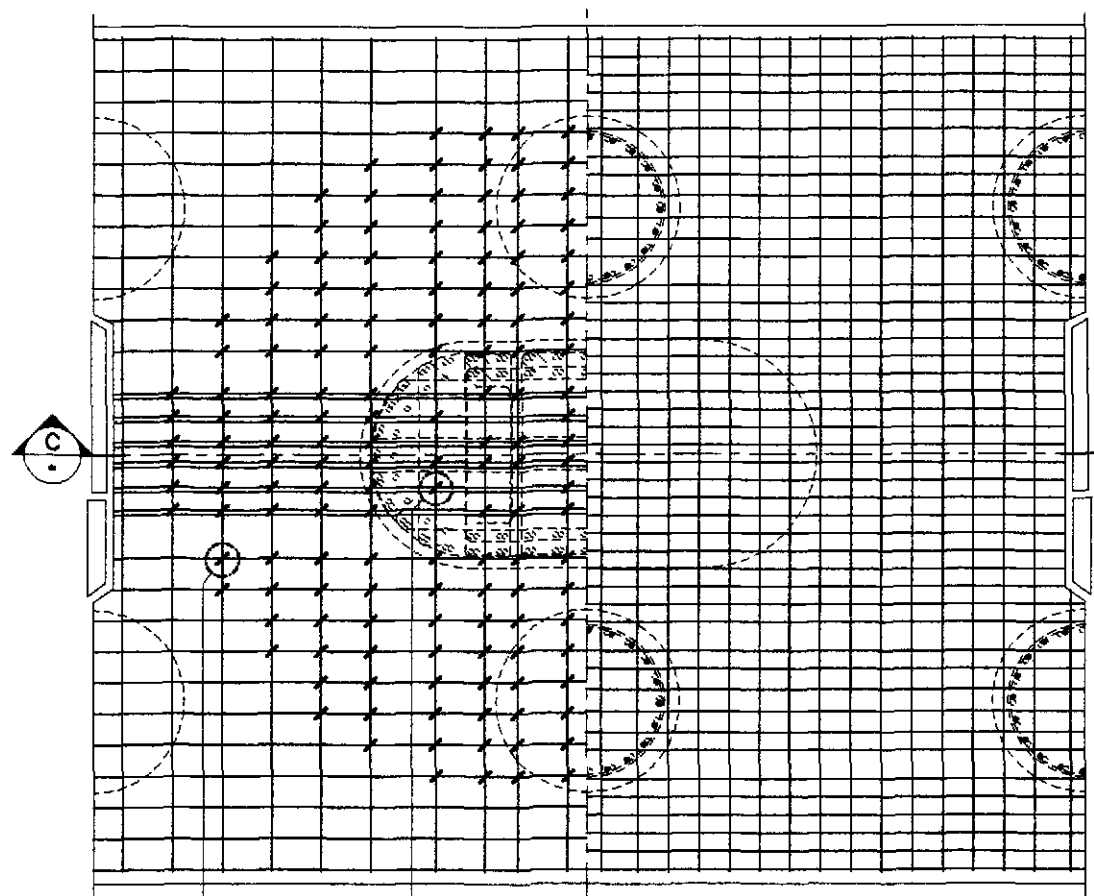
Submitted By:	Reviewed By:	Recommended By:	Approved By:
DAHILO C. TRAJANO Project Director	ADRIANO M. DORDY Chief, Bridge Division	GILBERTO S. REYES Director IV (DC)	MANUEL M. BONONAN Undersecretary

PROJECT AND LOCATION :
THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)
CABANATUAN BYPASS - CONTRACT PACKAGE III

SCALE :
AS SHOWN
FULL SIZE A1

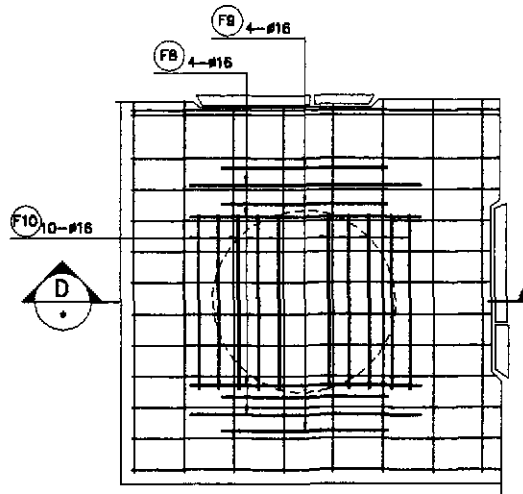
SHEET CONTENTS :
BRIDGE NO.10 PAMPANGA RIVER BRIDGE PILECAP REINFORCEMENT DETAILS (P3, P17 to P19, P21, P23 to P26) - 1 of 2 (INITIAL STAGE)

SHEET NO. :
B10A-47



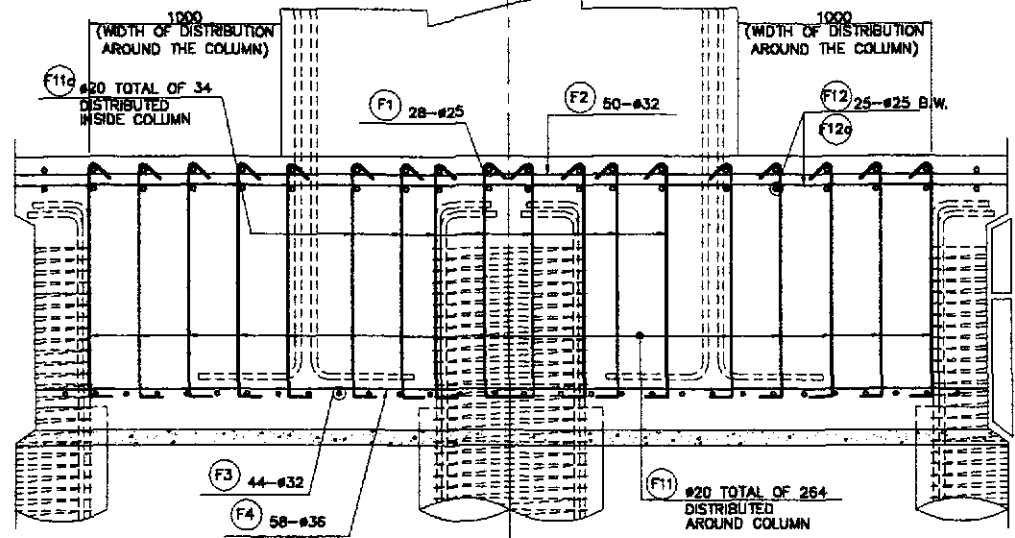
A PLAN
SCALE 1:25

F11 #20 TOTAL OF 264 DISTRIBUTED AROUND COLUMN
F11g #20 TOTAL OF 34 DISTRIBUTED INSIDE COLUMN

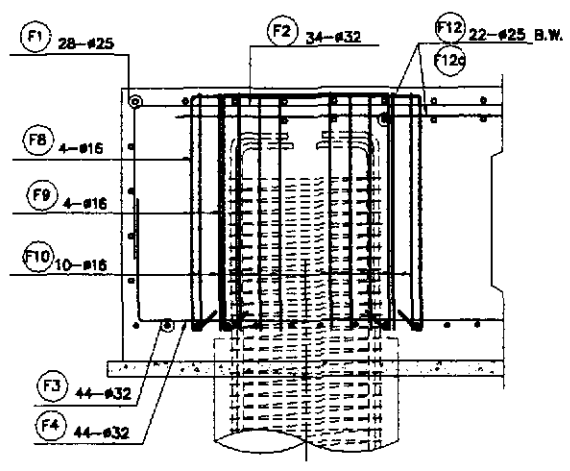


TYPICAL ON PILE-PILECAP CONNECTION

B PLAN
SCALE 1:25



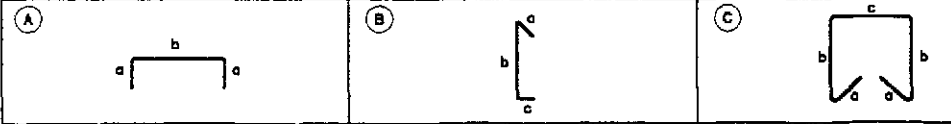
C SECTION
SCALE 1:25



D SECTION
SCALE 1:25

1 PILECAP REINFORCEMENT DETAILS (P3, P17 to P19, P21, P23 to P26) - 2 of 2
SCALE AS SHOWN

BAR BENDING DIAGRAM



SCHEDULE OF REINFORCEMENT

LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION(mm) OUT TO OUT						LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (Kg) GRADE 80	WEIGHT (Kg) GRADE 40
				a	b	c	d	e	f					
PILES P3, P17 to P19, P21, P23 to P26	F1	25	A	1200	5500					7900	28	3.854	852.50	
	F2	32	A	1200	8750					11150	34	6.313	2393.26	
	F3	32	A	1200	5500					7900	44	6.313	2194.40	
	F4	32	A	1200	8750					11150	44	6.313	3097.16	
	F5	25	STR	5500						5500	8	3.854	169.58	
	F6	25	STR	8750						8750	8	3.854	269.78	
	F7	20	B	260	1700					2220	240	2.466	1313.88	
	F8	16	C	100	1700	1500				5100	24	1.579		193.27
	F9	16	C	100	1700	1250				4850	24	1.579		183.80
	F10	16	C	100	1700	1100				4700	36	1.579		267.17
	F11	20	B	260	1700					2220	264	2.466	1445.27	
	F11e	20	B	260	1700					2220	34	2.466	186.13	
F12	25	STR	8750						8750	22	3.854	741.90		
F12a	25	STR	5500						5500	22	3.854	466.33		

WEIGHT FOR GRADE 40 = 644.24 Kgs.
WEIGHT FOR GRADE 80 = 13,130.19 Kgs.

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY

KATAHIRA & ENGINEERS
INTERNATIONAL

YEO YACHYO ENGINEERING CO., LTD.

DESIGNED	DATE	SIGNATURE
10/8/02	10/17/02	10/19/02

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

BUREAU OF DESIGN
OFFICE OF THE SECRETARY

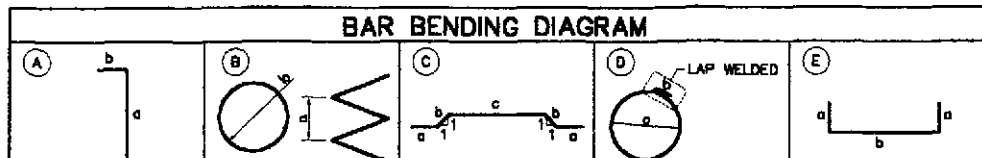
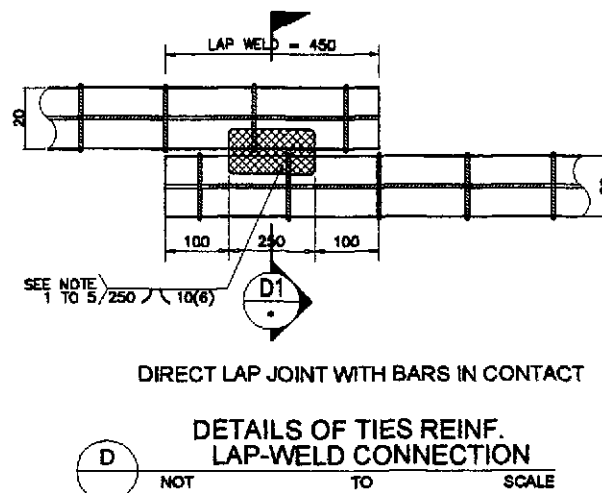
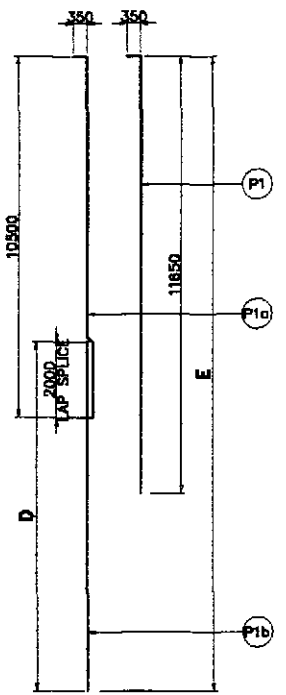
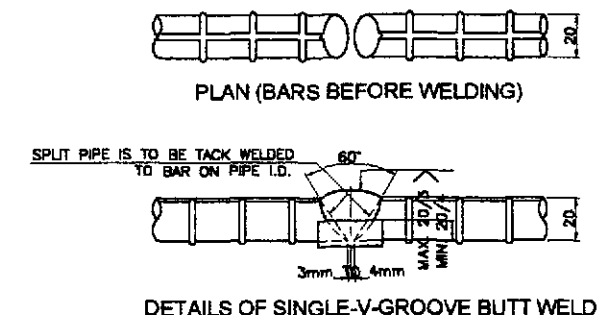
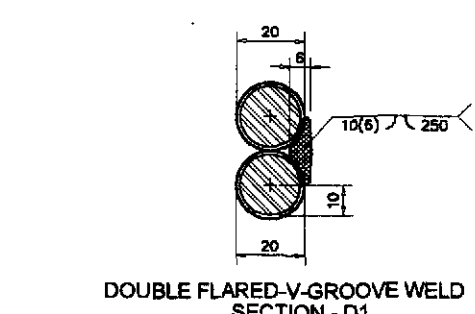
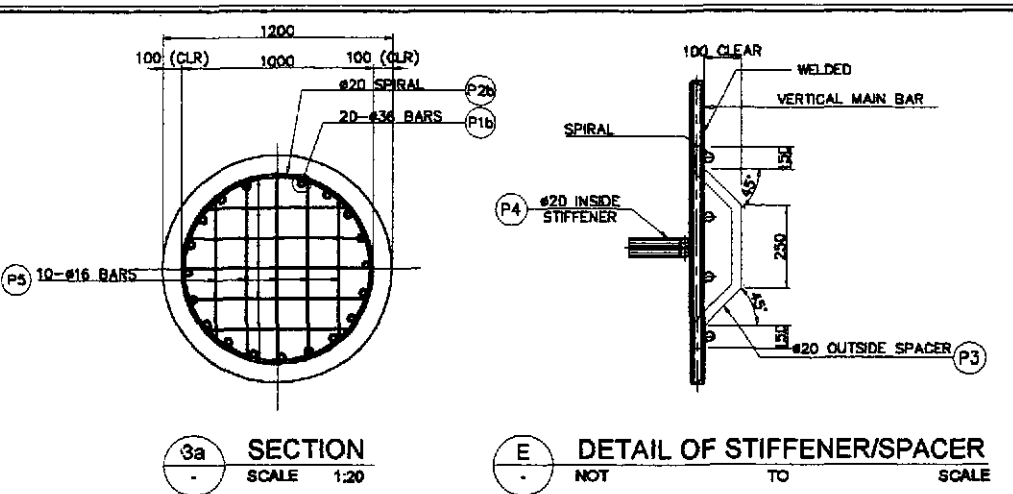
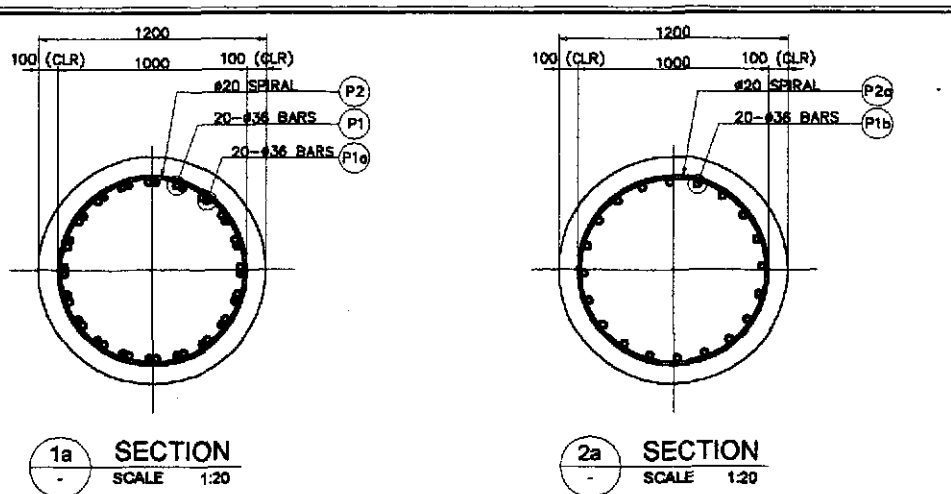
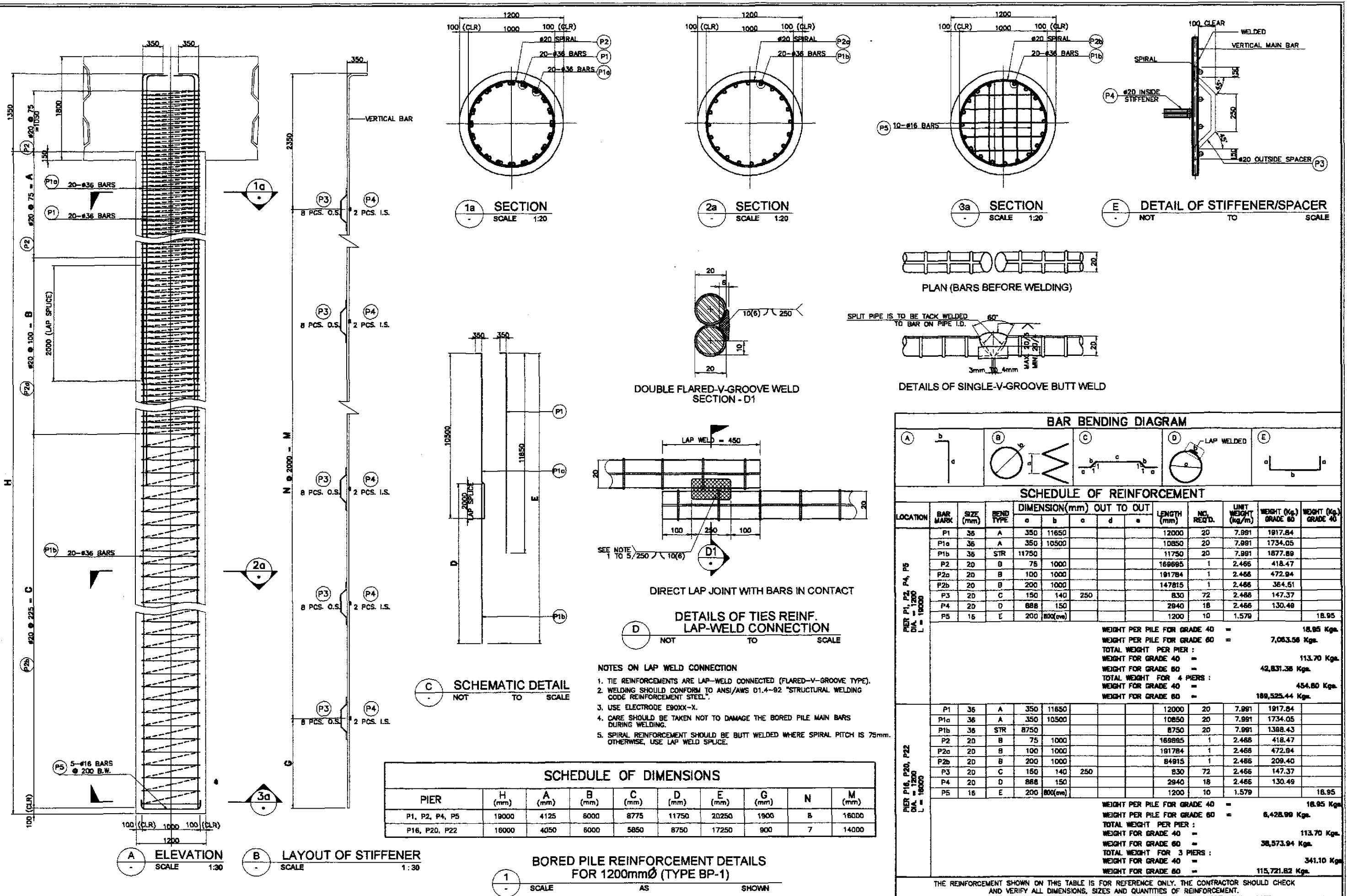
Submitted By: DANLO C. TRAJANO, Project Director
Reviewed By: ADRIANO M. DOROY, Chief, Bridge Division
Recommended By: GILBERTO S. REYES, Director IV (DC)
Approved By: MANUEL M. BONGAN, Undersecretary
Approved By: SIMEON A. DATUMANONG, Secretary

PROJECT AND LOCATION :
THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pilaridel, Cabanatuan and San Jose Bypasses)
CABANATUAN BYPASS - CONTRACT PACKAGE III

SCALE :
AS SHOWN
FULL SIZE A1

SHEET CONTENTS :
BRIDGE NO.10 PAMPANGA RIVER BRIDGE
PILECAP REINFORCEMENT DETAILS (P3, P17 to P19, P21, P23 to P26) - 2 of 2 (INITIAL STAGE)

SHEET NO. :
B10A-48

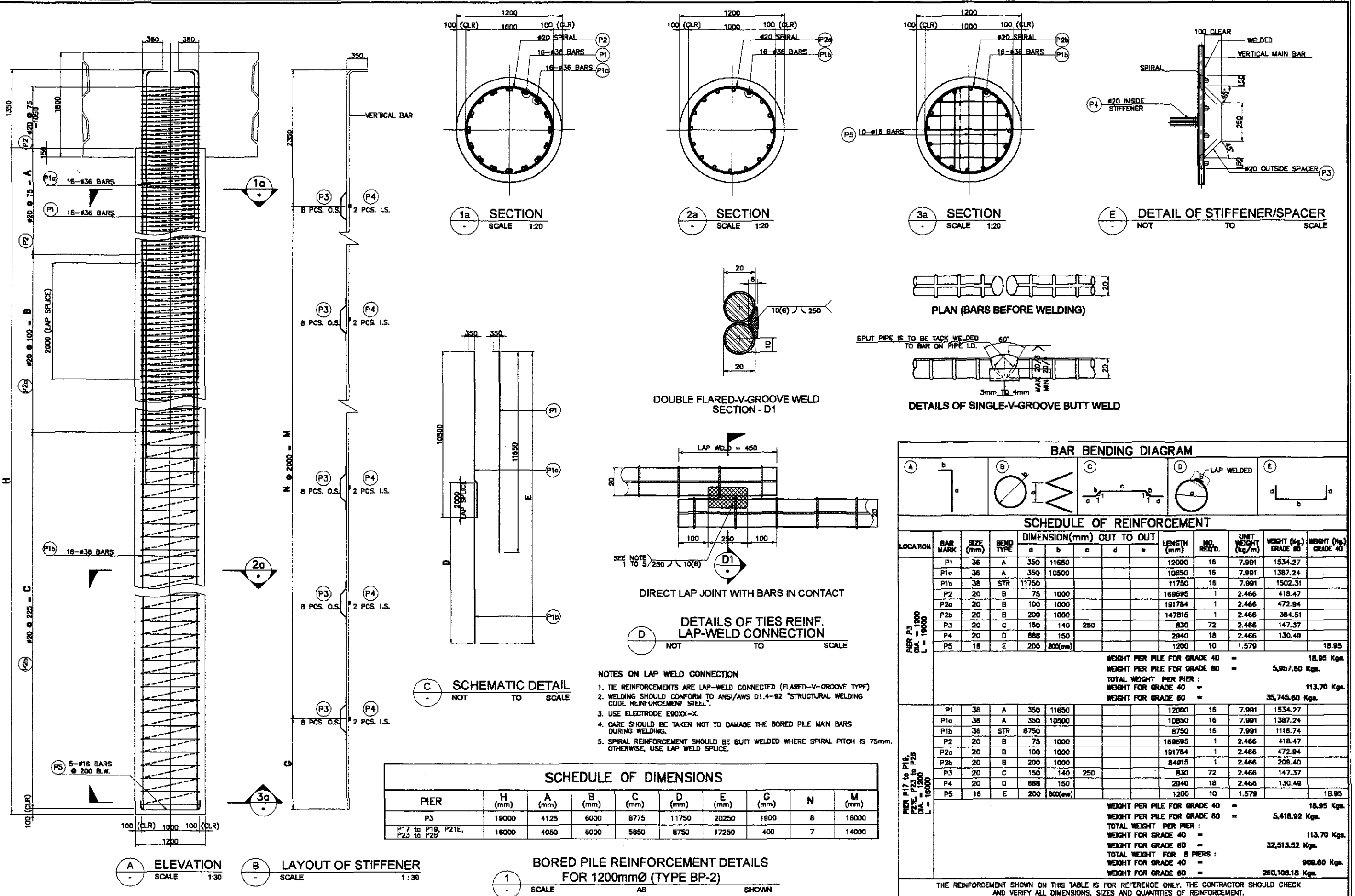


- NOTES ON LAP WELD CONNECTION
1. TIE REINFORCEMENTS ARE LAP-WELD CONNECTED (FLARED-V-GROOVE TYPE).
 2. WELDING SHOULD CONFORM TO ANSI/AWS D1.4-82 "STRUCTURAL WELDING CODE REINFORCEMENT STEEL".
 3. USE ELECTRODE E70XX-X.
 4. CARE SHOULD BE TAKEN NOT TO DAMAGE THE BORED PILE MAIN BARS DURING WELDING.
 5. SPIRAL REINFORCEMENT SHOULD BE BUTT WELDED WHERE SPIRAL PITCH IS 75mm. OTHERWISE, USE LAP WELD SPLICE.

PIER	H (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	G (mm)	N	M (mm)
P1, P2, P4, P5	19000	4125	6000	8775	11750	20250	1900	8	18000
P16, P20, P22	16000	4050	6000	5850	8750	17250	900	7	14000

LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION (mm) OUT TO OUT					LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (kg) GRADE 60	WEIGHT (kg) GRADE 40	
				a	b	c	d	e						
PIER P1, P2, P4, P5 DIA. = 1200 L = 19000	P1	36	A	350	11650					12000	20	7.991	1917.84	
	P1a	36	A	350	10500					10850	20	7.991	1734.05	
	P1b	36	STR	11750						11750	20	7.991	1877.89	
	P2	20	B	75	1000					169985	1	2.466	418.47	
	P2a	20	B	100	1000					191784	1	2.466	472.94	
	P2b	20	B	200	1000					147815	1	2.466	364.61	
	P3	20	C	150	140	250				830	72	2.466	147.37	
	P4	20	D	888	150					2940	18	2.466	130.49	
	P5	16	E	200	800(ave)					1200	10	1.579		18.95
	WEIGHT PER PILE FOR GRADE 40 = 18.95 Kgs. WEIGHT PER PILE FOR GRADE 60 = 7,063.56 Kgs. TOTAL WEIGHT PER PIER : WEIGHT FOR GRADE 40 = 113.70 Kgs. WEIGHT FOR GRADE 60 = 42,831.36 Kgs. TOTAL WEIGHT FOR 4 PIERS : WEIGHT FOR GRADE 40 = 454.80 Kgs. WEIGHT FOR GRADE 60 = 189,525.44 Kgs.													
PIER P16, P20, P22 DIA. = 1200 L = 16000	P1	36	A	350	11650					12000	20	7.991	1917.84	
	P1a	36	A	350	10500					10850	20	7.991	1734.05	
	P1b	36	STR	8750						8750	20	7.991	1398.43	
	P2	20	B	75	1000					169985	1	2.466	418.47	
	P2a	20	B	100	1000					191784	1	2.466	472.94	
	P2b	20	B	200	1000					84915	1	2.466	209.40	
	P3	20	C	150	140	250				830	72	2.466	147.37	
	P4	20	D	888	150					2940	18	2.466	130.49	
	P5	16	E	200	800(ave)					1200	10	1.579		18.95
	WEIGHT PER PILE FOR GRADE 40 = 18.95 Kgs. WEIGHT PER PILE FOR GRADE 60 = 6,428.99 Kgs. TOTAL WEIGHT PER PIER : WEIGHT FOR GRADE 40 = 113.70 Kgs. WEIGHT FOR GRADE 60 = 38,573.94 Kgs. TOTAL WEIGHT FOR 3 PIERS : WEIGHT FOR GRADE 40 = 341.10 Kgs. WEIGHT FOR GRADE 60 = 115,721.82 Kgs.													

	DESIGNED: 10/15/02 CHECKED: 10/17/02 SUBMITTED: 10/19/02	DATE: 10/15/02 SIGNATURE: F. M. SALAS TEAM LEADER	SUBMITTED BY: DANILLO C. TRAJANO Project Director	REVIEWED BY: ADRIANO M. DOROY Chief, Bridge Division	RECOMMENDED BY: GILBERTO S. REYES Director IV (OC)	RECOMMENDED BY: MANUEL M. BONGHAN Undersecretary	APPROVED BY: SIMED A. DATUMAHONG Secretary	PROJECT AND LOCATION: THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE: AS SHOWN FULL SIZE A1	SHEET CONTENTS: BRIDGE NO.10 PAMPANGA RIVER BRIDGE BORED PILE REINFORCEMENT DETAILS FOR 1200mmØ (TYPE BP-1) (INITIAL STAGE)	SHEET NO.: B10A-49
	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BUREAU OF DESIGN OFFICE OF THE SECRETARY							PROJECT AND LOCATION: THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE: AS SHOWN FULL SIZE A1	SHEET CONTENTS: BRIDGE NO.10 PAMPANGA RIVER BRIDGE BORED PILE REINFORCEMENT DETAILS FOR 1200mmØ (TYPE BP-1) (INITIAL STAGE)	SHEET NO.: B10A-49
	THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.							PROJECT AND LOCATION: THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE: AS SHOWN FULL SIZE A1	SHEET CONTENTS: BRIDGE NO.10 PAMPANGA RIVER BRIDGE BORED PILE REINFORCEMENT DETAILS FOR 1200mmØ (TYPE BP-1) (INITIAL STAGE)	SHEET NO.: B10A-49



BAR BENDING DIAGRAM

SCHEDULE OF REINFORCEMENT

LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION (mm) OUT TO OUT					LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (kg) GRADE 60	WEIGHT (kg) GRADE 40
				a	b	c	d	e					
PIER P3 DIA. = 1200 L = 18000	P1	36	A	350	11650				12000	16	7.991	1534.27	
	P1a	36	A	350	10850				10850	16	7.991	1387.24	
	P1b	36	STR	8750	11750				8750	16	7.991	1118.74	
	P2	20	B	75	1000				169695	1	2.466	418.47	
	P2a	20	B	100	1000				191784	1	2.466	472.94	
	P2b	20	B	200	1000				84915	1	2.466	208.40	
	P3	20	C	150	140	250			830	72	2.466	147.37	
	P4	20	D	888	150				2940	18	2.466	130.49	
	P5	16	E	200	800(ave)				1200	10	1.579		18.95
	WEIGHT PER PILE FOR GRADE 40 = 18.95 Kgs. WEIGHT PER PILE FOR GRADE 60 = 5,857.80 Kgs. TOTAL WEIGHT PER PIER : WEIGHT FOR GRADE 40 = 113.70 Kgs. WEIGHT FOR GRADE 60 = 35,745.60 Kgs.												
PIER P17 to P19 PIER P23 to P25 DIA. = 1200 L = 18000	P1	36	A	350	11650				12000	16	7.991	1534.27	
	P1a	36	A	350	10850				10850	16	7.991	1387.24	
	P1b	36	STR	8750	11750				8750	16	7.991	1118.74	
	P2	20	B	75	1000				169695	1	2.466	418.47	
	P2a	20	B	100	1000				191784	1	2.466	472.94	
	P2b	20	B	200	1000				84915	1	2.466	208.40	
	P3	20	C	150	140	250			830	72	2.466	147.37	
	P4	20	D	888	150				2940	18	2.466	130.49	
	P5	16	E	200	800(ave)				1200	10	1.579		18.95
	WEIGHT PER PILE FOR GRADE 40 = 18.95 Kgs. WEIGHT PER PILE FOR GRADE 60 = 5,418.92 Kgs. TOTAL WEIGHT PER PIER : WEIGHT FOR GRADE 40 = 113.70 Kgs. WEIGHT FOR GRADE 60 = 32,513.52 Kgs. TOTAL WEIGHT FOR 8 PIERS : WEIGHT FOR GRADE 40 = 908.80 Kgs. WEIGHT FOR GRADE 60 = 280,108.16 Kgs.												

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

SCHEDULE OF DIMENSIONS

PIER	H (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	G (mm)	N	M (mm)
P3	19000	4125	6000	8775	11750	20250	1900	8	18000
P17 to P19, P21E, P23 to P25	16000	4050	6000	5850	8750	17250	400	7	14000

JICA JAPAN INTERNATIONAL COOPERATION AGENCY

KATAHIRA & ENGINEERS INTERNATIONAL **YEO YACHYO ENGINEERING CO., LTD.**

REPUBLIC OF THE PHILIPPINES
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 BUREAU OF DESIGN
 OFFICE OF THE SECRETARY

PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)
 CABANATUAN BYPASS - CONTRACT PACKAGE III

SCALE : AS SHOWN
 SHEET CONTENTS : BRIDGE NO.10 PAMPANGA RIVER BRIDGE BORED PILE REINFORCEMENT DETAILS FOR 1200mmØ (TYPE BP-2) (INITIAL STAGE)
 SHEET NO. : B10A-50

DESIGNED: 10/18/02
 CHECKED: 10/17/02
 SUBMITTED: 10/19/02

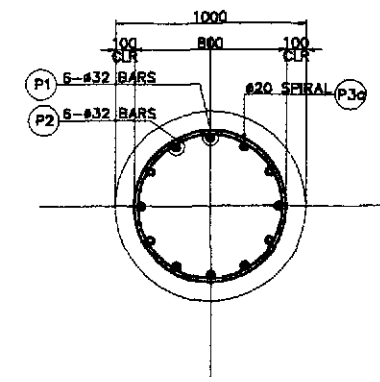
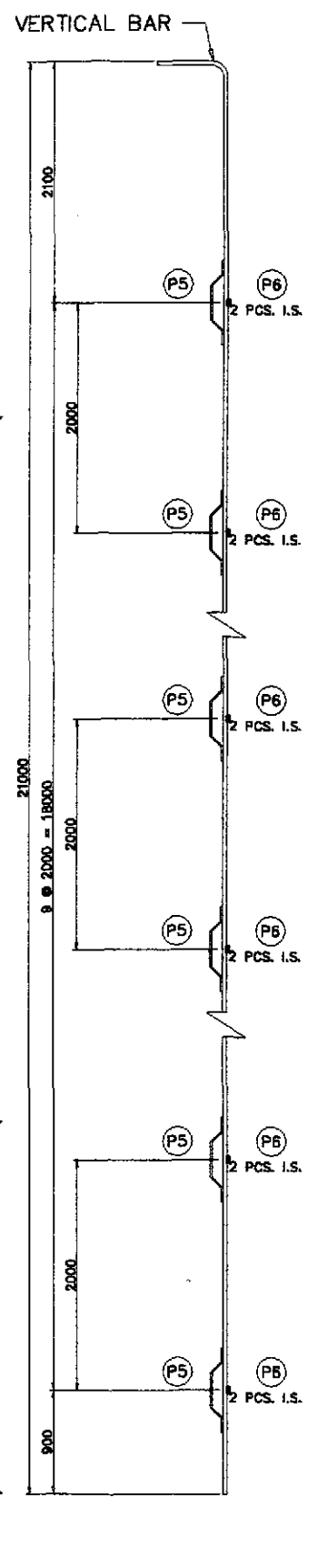
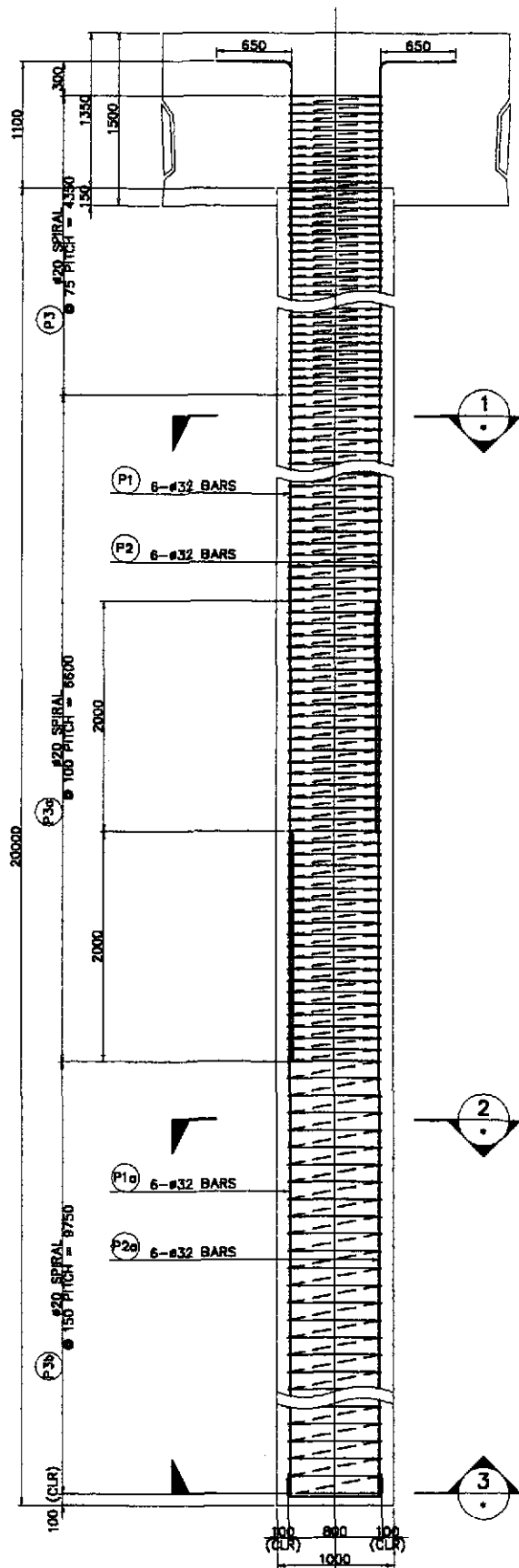
DATE: 10/18/02
 SIGNATURE: F. M. SALAS
 P.V.L. - PWD
 Submitted By: DANILLO C. TRAJANO
 Project Director

Reviewed By: ADRIANO M. DOROS
 Chief, Bridge Division

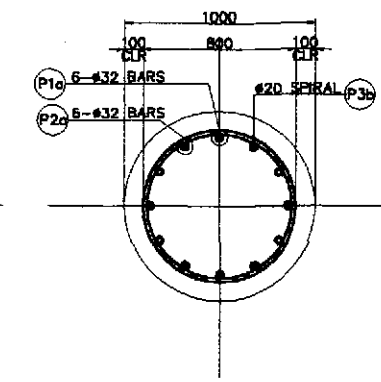
Recommended By: GILBERTO S. REYES
 Director IV (DC)

Recommended By: MANUEL M. BONDAM
 Undersecretary

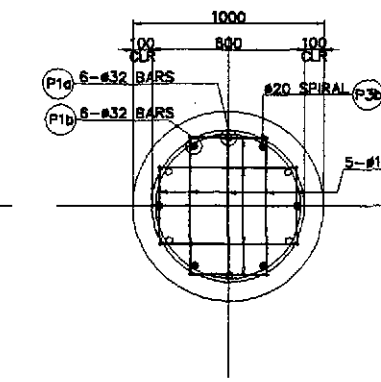
Approved By: SIMONE A. DATUMANONG
 Secretary



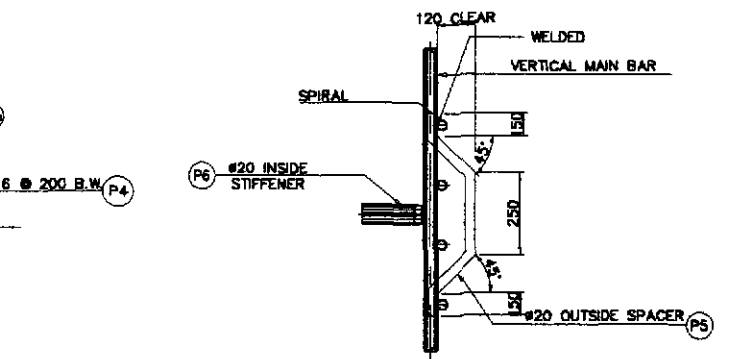
1 SECTION SCALE 1:20



2 SECTION SCALE 1:20



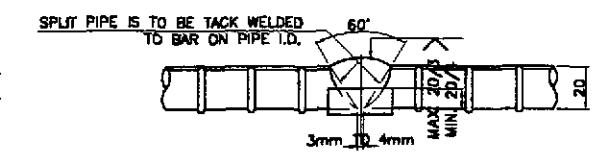
3 SECTION SCALE 1:20



E DETAIL OF STIFFENER/SPACER NOT TO SCALE

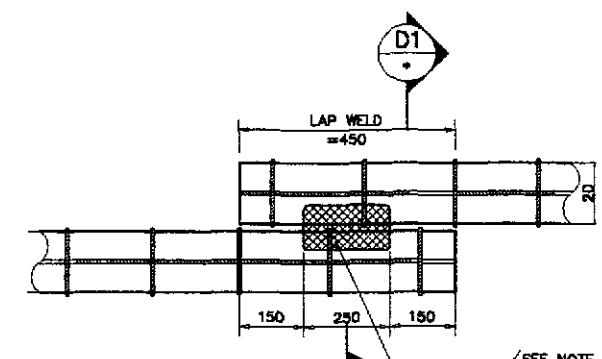


PLAN (BARS BEFORE WELDING)



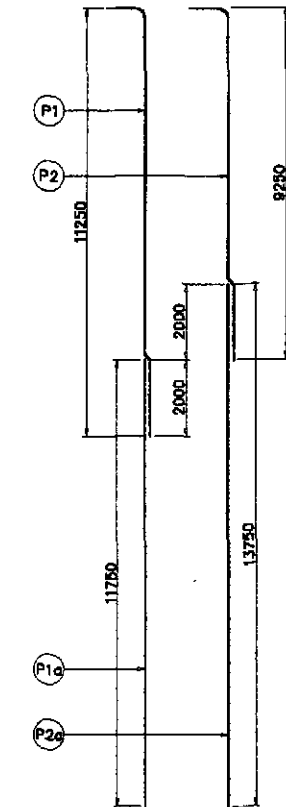
DETAILS OF SINGLE-V-GROOVE BUTT WELD

DOUBLE FLARED-V-GROOVE WELD SECTION - D1



DIRECT LAP JOINT WITH BARS IN CONTACT

DETAILS OF SPIRAL REINF. FULL LAP-WELD CONNECTION NOT TO SCALE

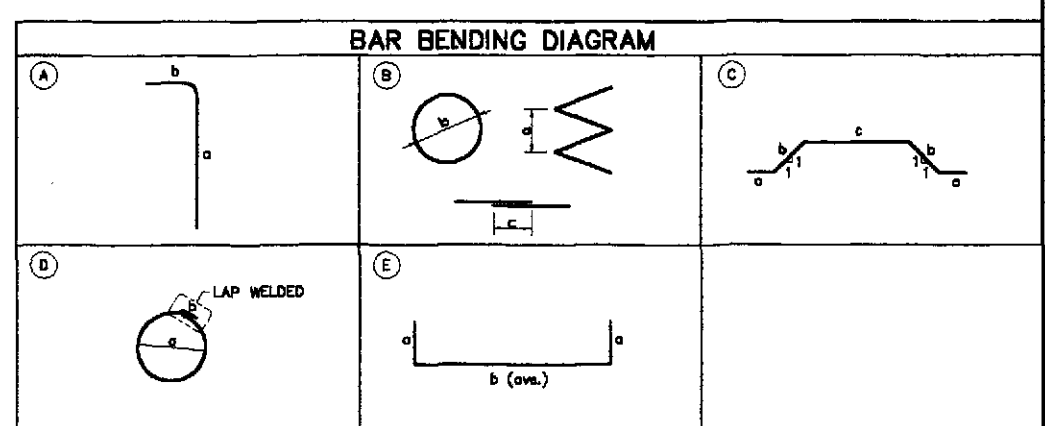


C SCHEMATIC DETAIL NOT TO SCALE

A ELEVATION SCALE 1:30

B LAYOUT OF STIFFENER SCALE 1:30

1 BORED PILE REINFORCEMENT DETAILS FOR 1000mmØ (SBUTMENT A1 & A2) SCALE AS SHOWN

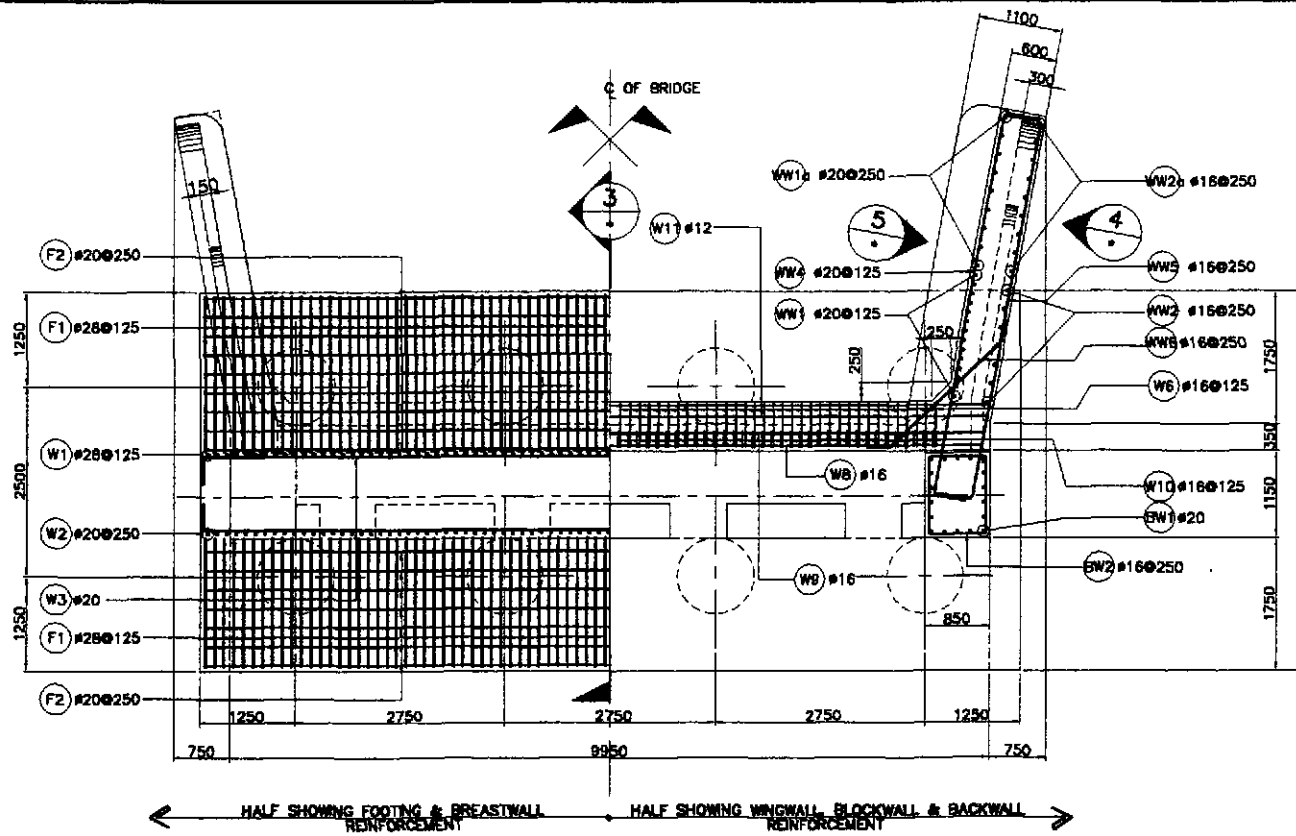


LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION(mm) OUT TO OUT						LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (kg)	WEIGHT (kg) GRADE 40	
				a	b	c	d	e	f						
ABUTMENT A1 AND A2	P1	32	A	11250	650						11900	6	6.313	450.75	
	P1a	32	STR	11750							11750	6	6.313	445.07	
	P2	32	A	9250	650						9900	6	6.313	374.99	
	P2a	32	STR	13750							13750	6	6.313	520.82	
	P3	20	B	75	780	500					148182	-	2.466	365.44	
	P3a	20	B	100	780	500					168864	-	2.466	416.42	
	P3b	20	B	150	780	500					166577	-	2.466	410.78	
	P4	16	E	150	590						890	10	1.576		14.04
	P5	20	C	150	170	250					890	80	2.466	175.58	
	P6	20	D	665	500						2580	20	2.466	127.74	

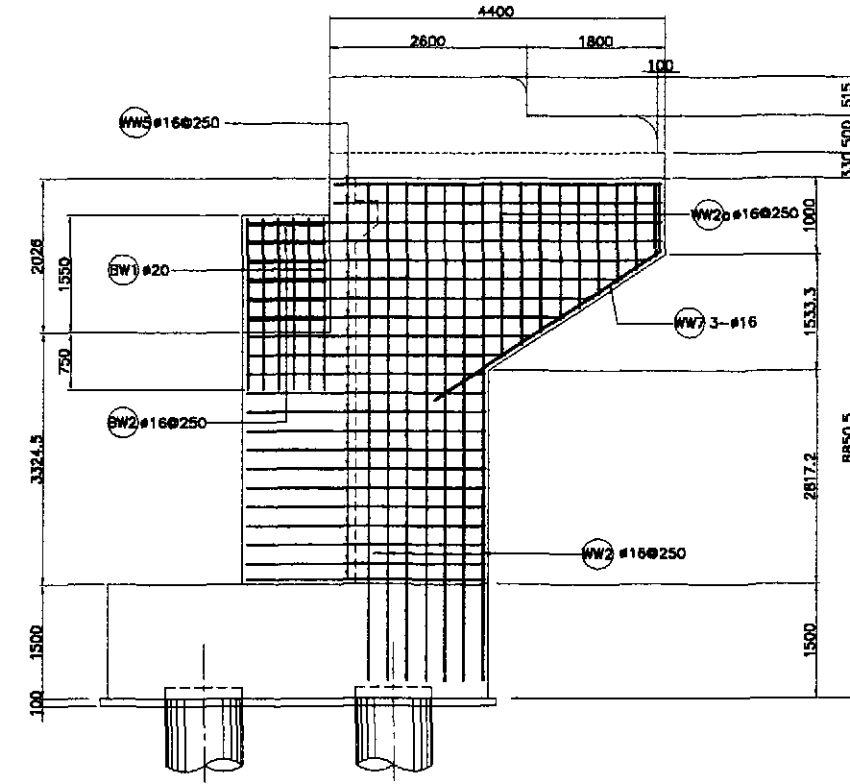
WEIGHT PER PILE FOR GRADE 40 = 14.04 Kgs
 WEIGHT PER PILE FOR GRADE 60 = 3,287.59 Kgs
 TOTAL WEIGHT FOR 16 PILES :
 WEIGHT FOR GRADE 40 = 224.64 Kgs
 WEIGHT FOR GRADE 60 = 52,601.44 Kgs

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

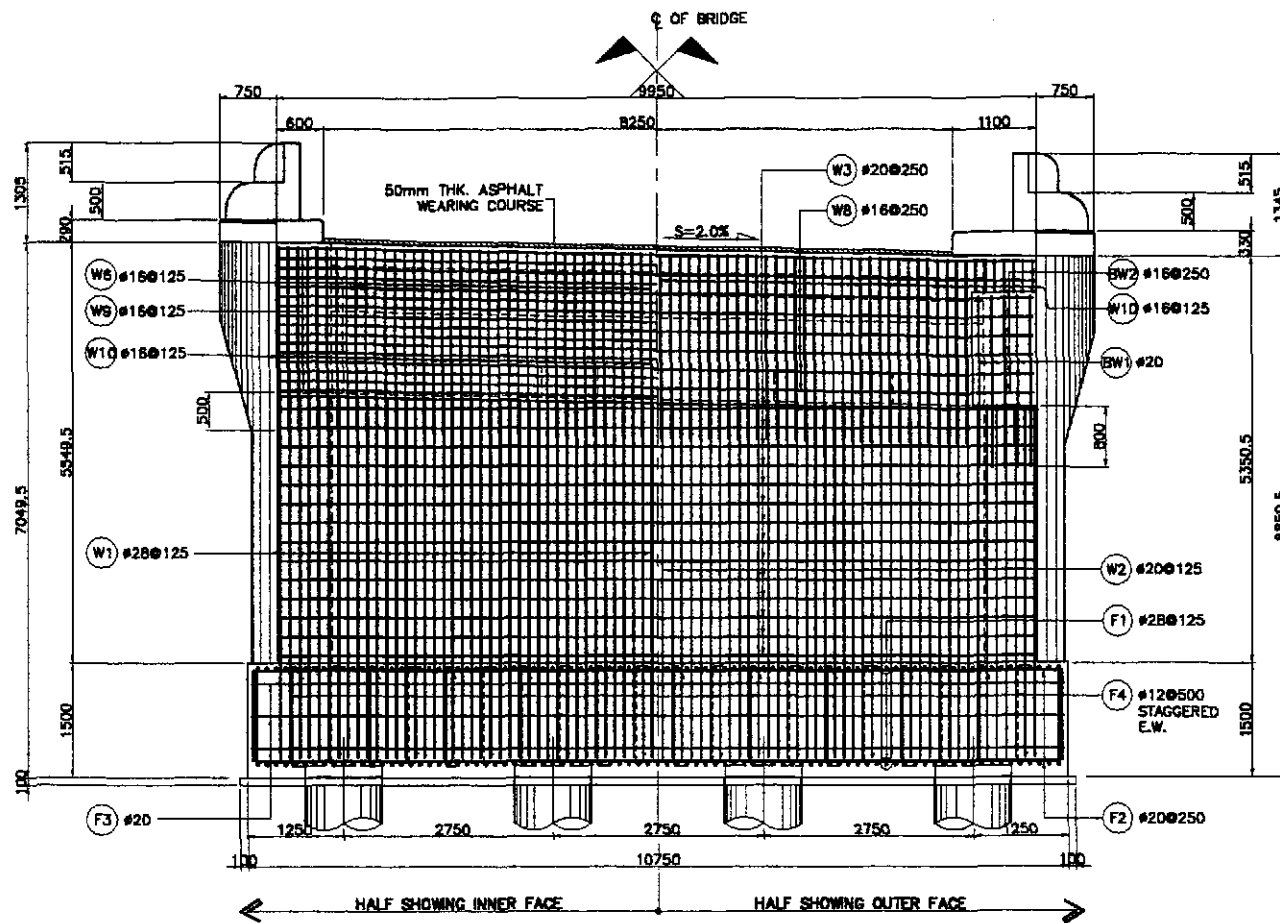
	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	10/17/02	F. M. SALAS		BUREAU OF DESIGN				THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Paridel, Cabanatuan and San Jose Bypasses)	AS SHOWN	BRIDGE NO.10 PAMPANGA RIVER BRIDGE BORED PILE REINFORCEMENT DETAILS FOR 1000mmØ (ABUTMENT A1 & A2) (INITIAL STAGE)	B10A-51
	SUBMITTED	10/19/02	J. C. SANTOS TEAM LEADER		OFFICE OF THE SECRETARY				CABANATUAN BYPASS - CONTRACT PACKAGE III	FULL SIZE A1		



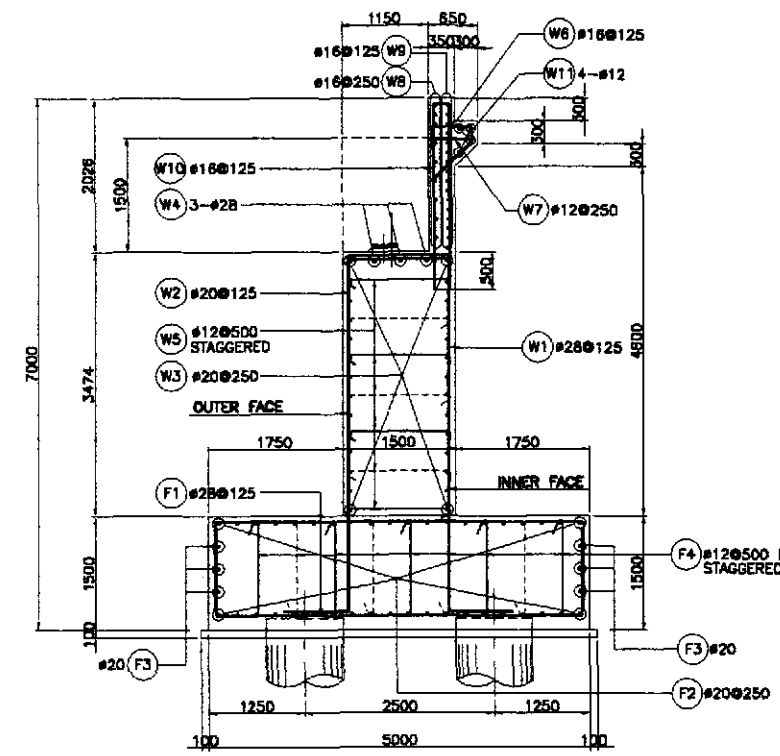
1 PLAN SCALE 1:50



4 WINGWALL ELEVATION SCALE 1:50

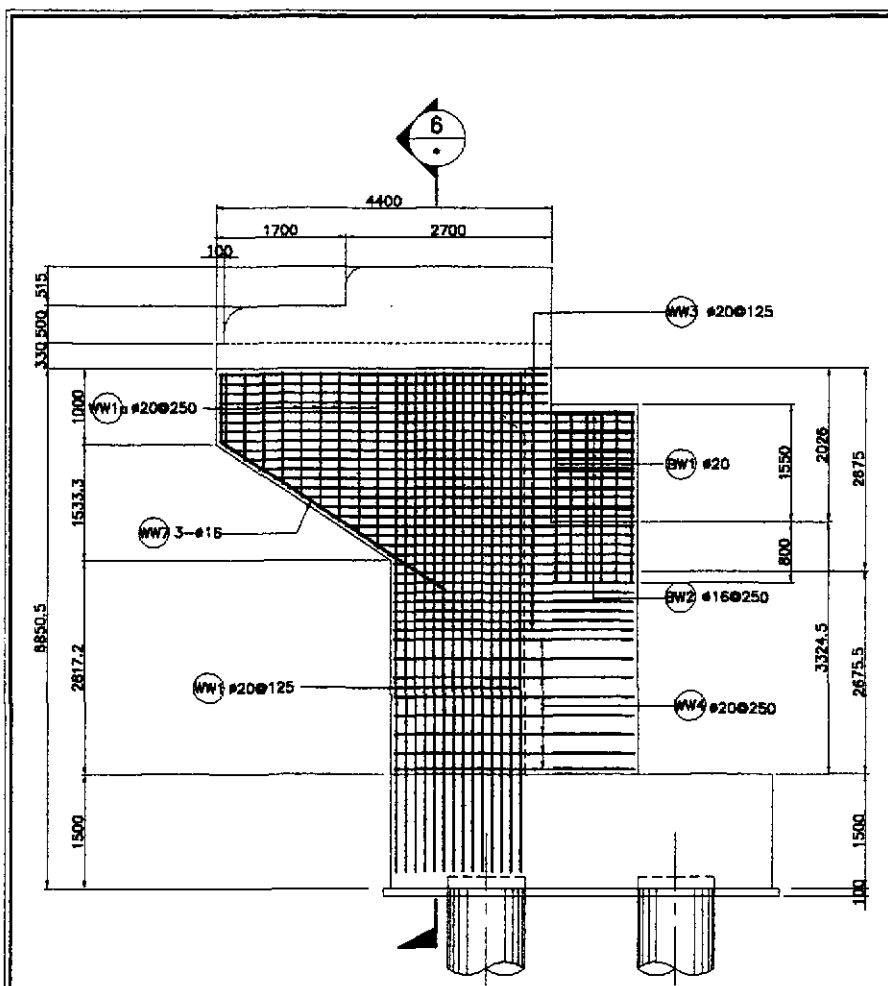


2 ELEVATION SCALE 1:50

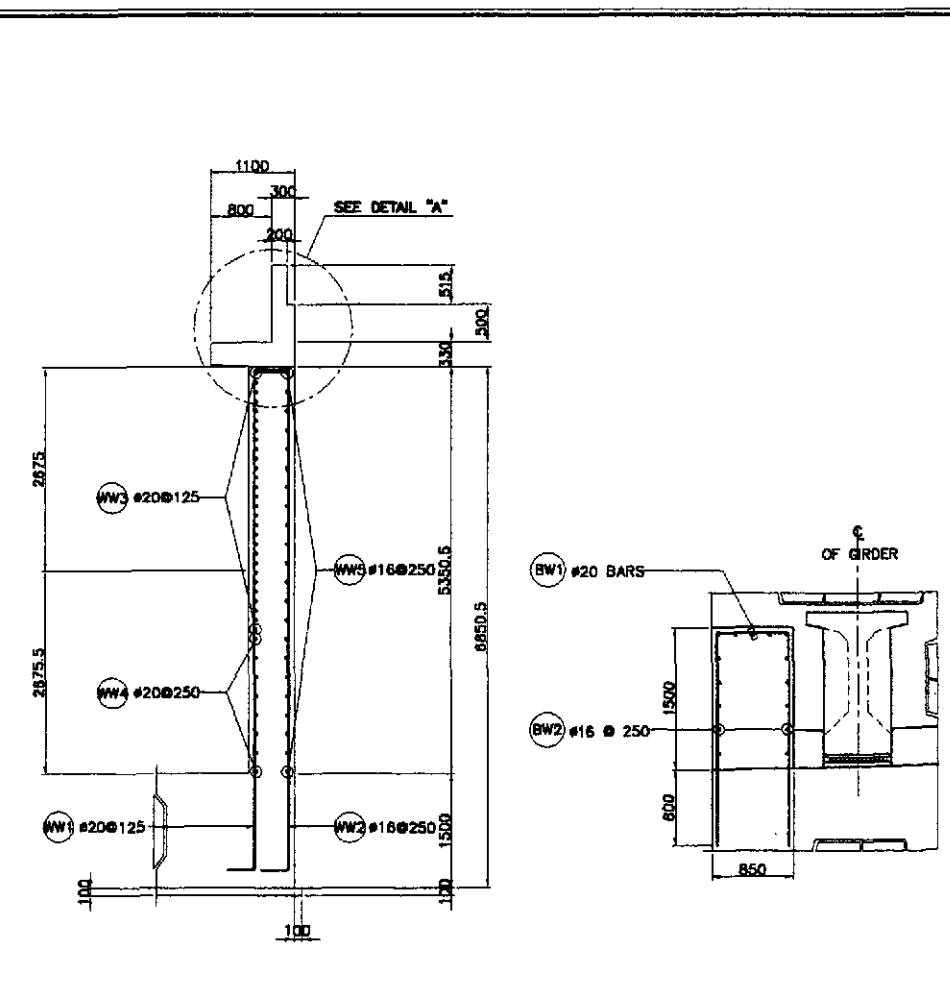


3 SECTION SCALE 1:50

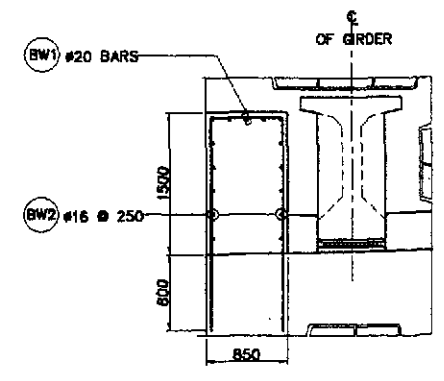
	DESIGNED	DATE	SIGNATURE	<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>	PROJECT AND LOCATION :					SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	10/17/02	F. M. SALAS		THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)					AS SHOWN	BRIDGE NO.10 PAMPANGA RIVER BRIDGE ABUTMENT REINFORCEMENT DETAILS (ABUT. A1 & ABUT. A2) - 1 of 2 (INITIAL STAGE)	B10A-52
	SUBMITTED	10/19/02	J. C. SANTOS		CABANATUAN BYPASS - CONTRACT PACKAGE III					FULL SIZE A1		
Submitted By: DANILO C. TRAJANO Project Director				Reviewed By: ADRIANO M. DORCY Chief, Bridges Division		Recommended By: GILBERTO S. REYES Director IV (OC)		Recommended By: MANUEL M. BONGAN Undersecretary		Approved By: SIMEON A. DATUMANONG Secretary		



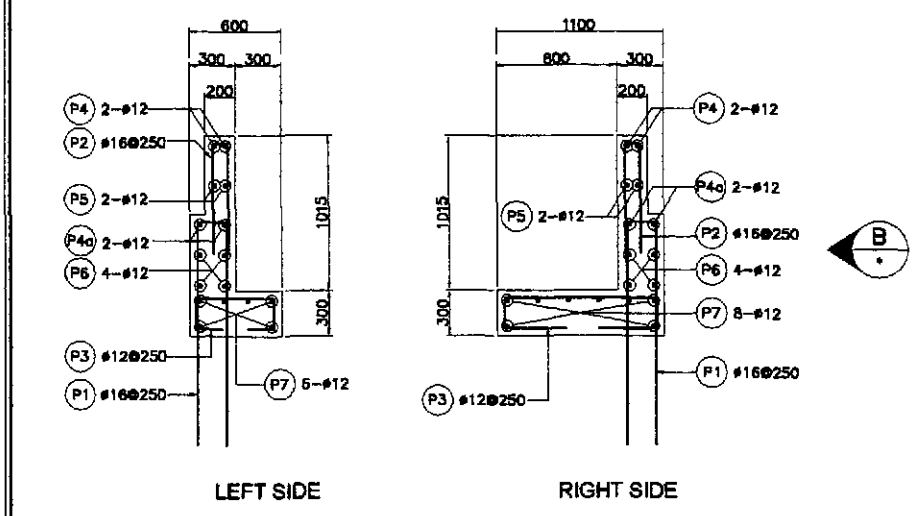
5 WINGWALL ELEVATION
SCALE 1:50



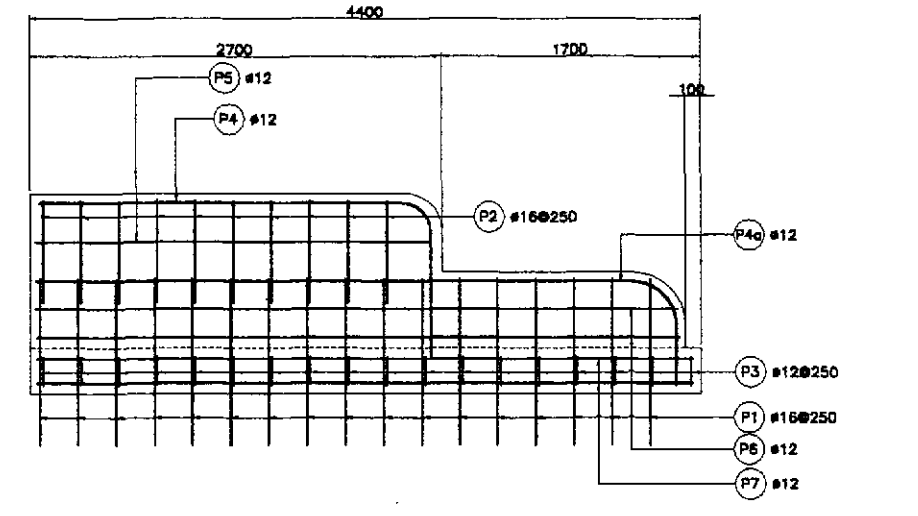
6 SECTION
SCALE 1:50



7 BLOCK WALL DETAIL
SCALE 1:40



A DETAIL
SCALE 1:25



B ELEVATION
SCALE 1:25

BAR BENDING DIAGRAM																
SCHEDULE OF REINFORCEMENT																
LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION (mm) OUT TO OUT						LENGTH (mm)	NO. REQ'D	UNIT WEIGHT (kg/m)	WEIGHT (kg)			
				a	b	c	d	e	f				GRADE 40	GRADE 60		
BREASTWALL	W1	28	B	1350	4760	525				6635	80	4.834		2565.26		
	W2	20	B	1350	4760	525				6635	80	2.468		1308.95		
	W3	20	A	335	9800	335				10470	38	2.468		981.12		
	W4	28	A	500	9800					10800	3	4.834		156.62		
	W5	12	C	130	1350	110				1590	218	0.888	307.80			
TOTAL WEIGHT =												307.80		5011.88		
BACKWALL & CORBEL	W6	16	D	300	550	200	700			1750	70	1.578	183.31			
	W7	12	STR	550						550	70	0.888	34.19			
	W8	16	A	150	9800					10100	8	1.578	127.50			
	W9	16	A	150	9800					10100	16	1.578	255.00			
	W10	16	F	2700	250					5850	70	1.578	624.10			
W11	12	STR	9800						9800	4	0.888	34.81				
TOTAL WEIGHT =												1288.91				
BLOCKWALL	BW1	20	F	2250	915(ave.)					5415	18	2.468		240.36		
	BW2	16	E	175	750	1050				3950	12	1.578	74.80			
TOTAL WEIGHT (FOR 2 BLOCKWALLS) =												74.80		240.36		
WINGWALL	WW1	20	B	335	6675	335				7345	28	2.468		507.16		
	WW1a	20	A	335	1500(ave.)					2170	14	2.468		74.92		
	WW2	16	A	335	6675					7345	14	1.578	162.27			
	WW2a	16	A	335	1500					2170	14	1.578	47.94			
	WW3	20	A	335	3885(ave.)					4355	51	2.468		572.86		
	WW4	20	A	335	3100					3770	25	2.468		232.42		
	WW5	16	A	150	3560(ave.)					3860	50	1.578	304.55			
WW6	16	G	450	1900					2800	54	1.578	238.58				
WW7	16	H	800	2800					3700	6	1.578	35.03				
TOTAL WEIGHT (FOR 2 WINGWALLS) =												1578.78		2774.72		
PARAPET RIGHT SIDE	P1	16	F	1250	200					2700	15	1.578	63.81			
	P2	16	F	900	100					1100	9	1.578	15.62			
	P3	12	I	420	200	1000				2240	16	0.888	31.83			
	P4	12	J	2000	275	300				2575	2	0.888	4.57			
	P4a	12	J	3385	435	425				4245	2	0.888	7.54			
	P5	12	STR	2275						2275	2	0.888	4.04			
	P6	12	STR	3700						3700	4	0.888	13.14			
P7	12	STR	3800						3800	6	0.888	27.00				
TOTAL WEIGHT =												187.65				
PARAPET LEFT SIDE	P1	16	F	1250	200					2700	15	1.578	63.81			
	P2	16	F	900	100					1100	9	1.578	15.62			
	P3	12	I	420	200	500				1740	16	0.888	24.72			
	P4	12	J	2000	275	300				2575	2	0.888	4.57			
	P4a	12	J	3385	435	425				4245	2	0.888	7.54			
	P5	12	STR	2275						2275	2	0.888	4.04			
	P6	12	STR	3700						3700	4	0.888	13.14			
P7	12	STR	3800						3800	6	0.888	20.25				
TOTAL WEIGHT =												183.78				
FOOTING	F1	28	A	1350	4850					7550	170	4.834		6204.44		
	F2	20	A	335	10600					11270	40	2.468		1111.67		
	F3	20	A	335	10600					11270	6	2.468		166.75		
	F4	12	C	130	1350	110				1590	242	0.888	341.68			
TOTAL WEIGHT =												341.68		7482.86		
GRAND TOTAL WEIGHT =												3891.38		15,509.92		
GRAND TOTAL WEIGHT (FOR 2 ABUTMENTS) =												7,782.78		31,019.84		

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS					PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	1/11/22	F. M. SALAS		BUREAU OF DESIGN Submitted By: DANILO C. TRAJANO Project Director	OFFICE OF THE SECRETARY Recommended By: ADRIANO M. DORCY Chief, Bridge Division	Recommended By: GILBERTO S. REYES Director IV (OC)	Recommended By: MARLENE B. BOMBAN Undersecretary	Approved By: SIMEDON A. DATUMANGONG Secretary	THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	AS SHOWN	BRIDGE NO.10 PAMPANGA RIVER BRIDGE ABUTMENT REINFORCEMENT DETAILS (ABUT. A1 & ABUT. A2) - 2 of 2 (INITIAL STAGE)	B10A-53
SUBMITTED	1/11/22									FULL SIZE A1			