

en ante de la companya

DIMENSION TABLE

	Ps .	87
PH	22.048	22.115
PH2	22.248	22.315
РНэ	21.848	21.915
PH4	11.785	11.665
PH5	9.048	9.115
Hs	6 563	6 750
Ha	6 163	6 350
Нз	2 737	2 550
81	3 015	5 694
Bz	2 985	306
Вэ	5 365	8 044
₿4	5 335	2 656

#### CO-ORDINATES LIST

	-	· · · · · ·				
	1	A 1		C C		<u>6</u>
15	L V	9743058 4376	9743050 2358	5743063 2010	9741058 9310	2243962 3643 )
1.14	le:		E113947-1692			
	IΥ	443395 3629		1 113,94 3403	443400 3288	445398 3194 1
				H		
	l wi		401000 0000	2023125 7555	- 43 35 67 5 5. 56	414636A 8361
	IX.	2743085.0030	1 2243066 6997 -	E 2743050 6793	2143093 3143	2143065.2361
	191	21113 1976	- 111111111	11311.1515	1 11/01 96 11	4434]5.5143
		1 7	1 8		P	<b>6</b>
P7	ľΨ	17/1115 BAEL	9741117 6161	9743113 9004	3741111 1818	2743115.2769
	ŀ÷					173112361
	T	443373 8280	1 443370 9837	113373 0760	4133/1 6133	493J [. 023U
1		F	G	Н		
	had			31.11.1	AT 1011 A 111	43.8.46 0003
	I X	2743120 5036	8743122 8388	2743116 7179	<u> </u>	2743125.0093
1	ŀ€	773335 8815	215411 6125	1 713167 6669	77557 755	44336 1011
1	1.5	231010.8304	393360. 3982	173330 3302	110.001 60.01	

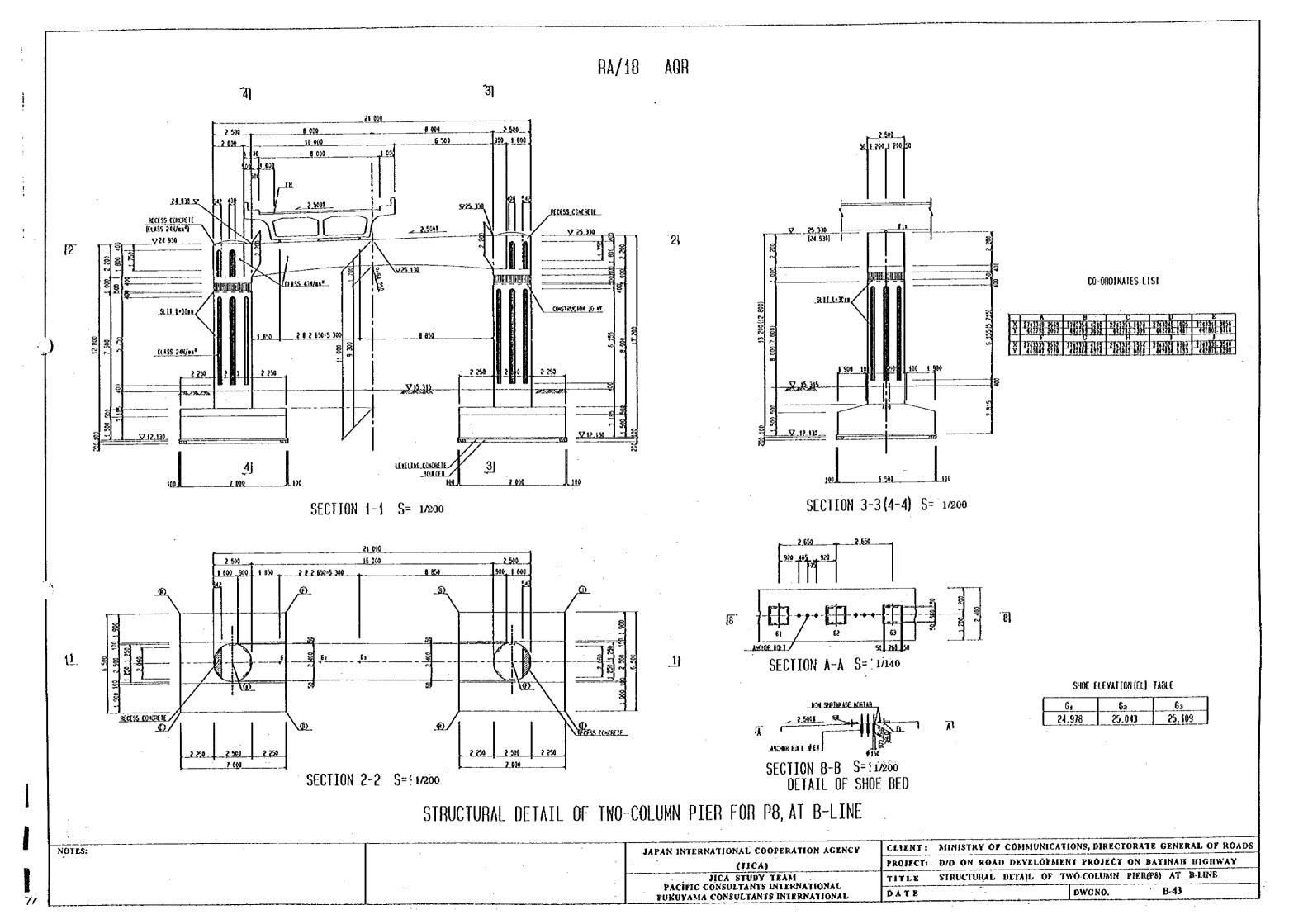
**'8**]

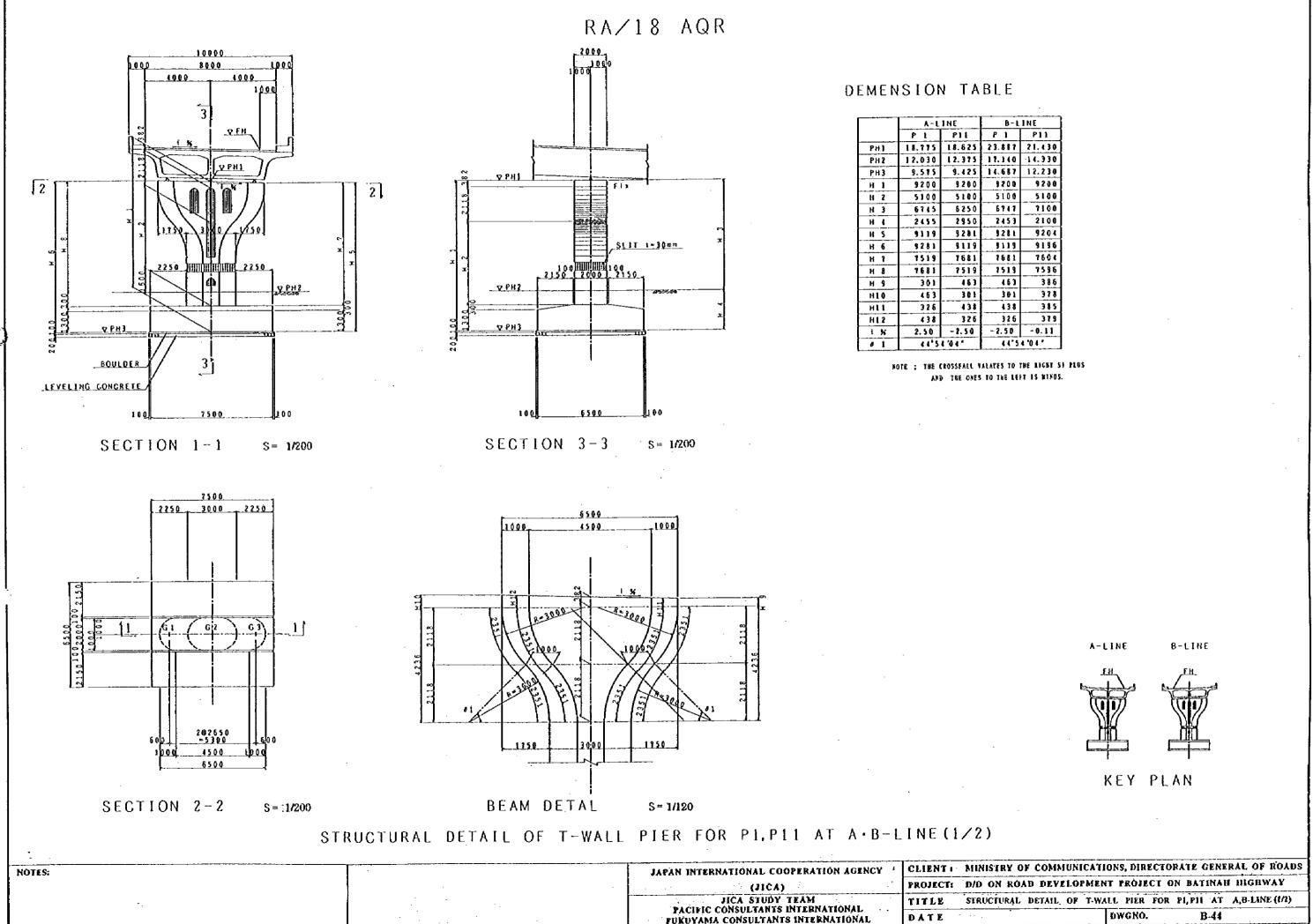
#### SHOE ELEVA (EL) TABLE

[	61	62	6,
Ps	21.981	22.048	22.115
P,	21.981	22.048	22.515

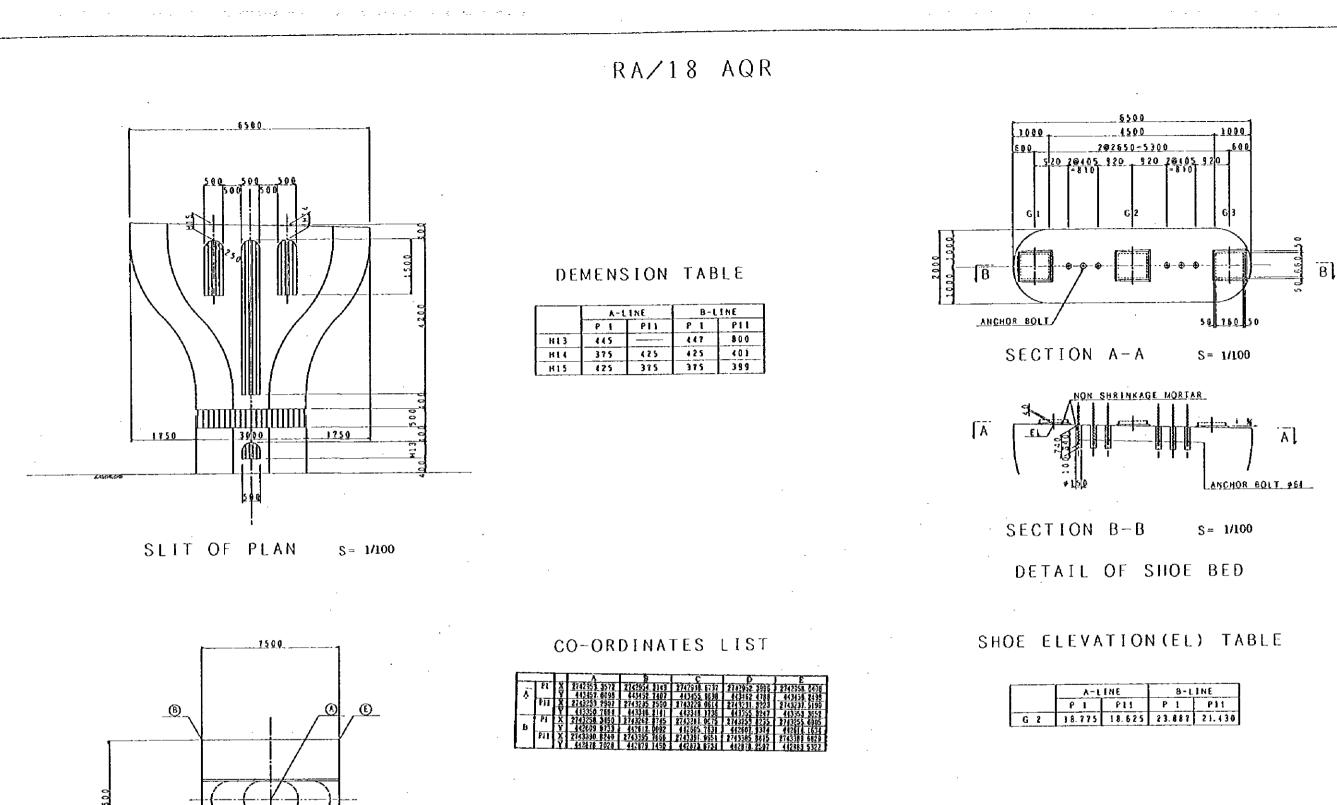
( OF	COMM	INIC	ATIONS, DIRECT	IORATE GENERAL OF ROAD	S
ROA	D DEVEL	OPA	IENT PROJECT	ON BATINAH HIGHWAY	
UL	DETAIL	OF	TWO COLUMN	PIER(P5,P7) AT A-LINE	
			DWGNO.	B-42	

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		_		Ð١	VGNÓ.		B	-44		
L	DETAIL	OF	T-WA	LL.	PIER	FOR	PI, PI I	'AT	A,B-LINE (th)	_



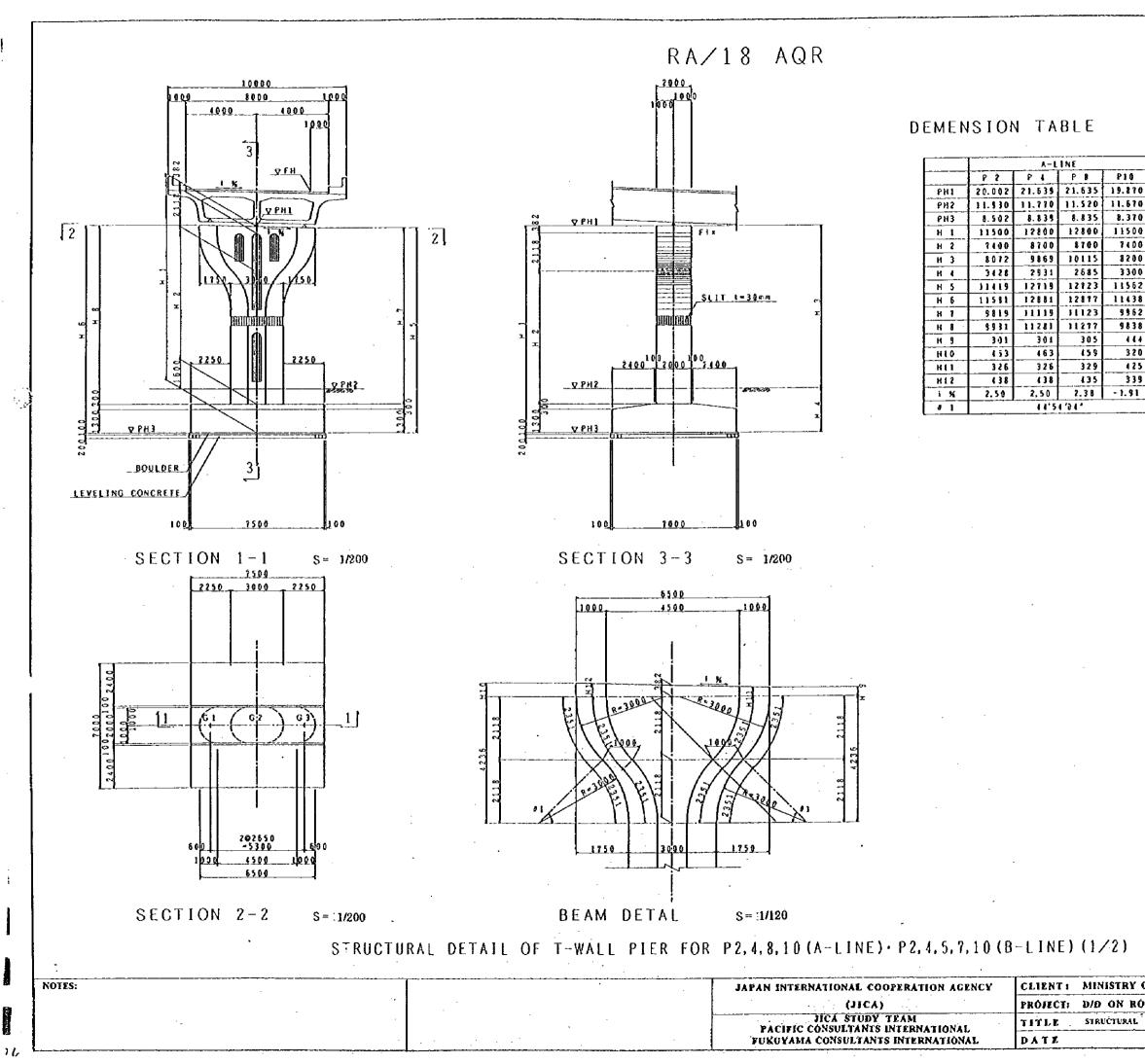
FRAMING PLAN S = 1/200

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STRUCTURAL DETAIL OF T-WALL PIER FOR P1, P11 AT A · B-LINE (2/2)

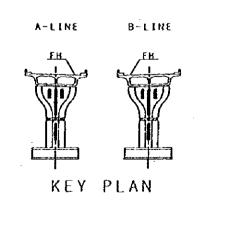
NOTES:	· · · · · · · · · · · · · · · · · · ·	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
		(JICA)	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
	· · · · ·	JICA STUDY TEAM	TITLE STRUCTURAL DETAIL OF T-WALL PIER FOR PI, PI1 AT A, B-LINE (2/2)
		PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	DATE DWGNO. B-45

ENE		8-L	INE
P11		P 1	P11
Ī	18.625	23.887	21.430



B-LINE								
Ρź	P 4	P 5	P 7	P10				
24.862	26.002	26.167	25.687	22.935				
15.500	15.930	15.540	15.200	14.200				
13.362	13.202	13.357	12.887	L1.435				
11500	12800	12800	12500	11500				
7400	8700	8700	8700	1400				
93E2	10072	10627	10487	8735				
2138	2728	2173	2313	2765				
11581	12881	12881	12881	11573				
11419	12719	12713	12719	11427				
9981	11281	11281	11281	9973				
9819	11119	11119	11119	9827				
463	463	483	(63	455				
301	301	301	-301	309				
438	138	138	(38	432				
326	328	326	325	332				
- 2.50	-2.50	- 2.50	-2.50	- 2.26				
		44'56'04	• <u>.</u>					
	24.862 15.500 13.362 11500 7400 9362 2138 11561 11419 9881 9819 463 301 438 326	24.862 26.002   15.500 15.930   13.362 13.202   11500 12800   7460 8700   9362 10072   2138 2728   11561 12881   11419 12719   9981 11281   9815 11119   463 463   301 301   438 438   3265 326   -2.50 -2.50	P Z P 4 P 5   24.862 26.002 26.167 15.540   15.500 15.930 15.540   13.362 13.202 13.367   11500 12800 12800   740 8700 8700   9362 10072 10627   2138 2728 2173   11561 12881 12881   11419 12719 12719   9881 11281 11281   9819 1119 11119   463 463 463   301 301 301   326 326 326	P 2 P 4 P 5 P 7   24.862 26.002 26.157 25.587 15.500 15.930 15.540 15.200   13.362 13.202 13.357 12.887 15.540 15.200   11500 12800 12800 12800 12800 12800   7460 \$700 \$700 \$700 \$700 \$700   9362 10072 10627 10487   2138 2728 2173 2313   11561 12881 12881 12881   11419 12719 12719 12719   9881 11281 11281 11283   9815 1119 1119 301   301 301 301 301 307   438 438 438 438 438				

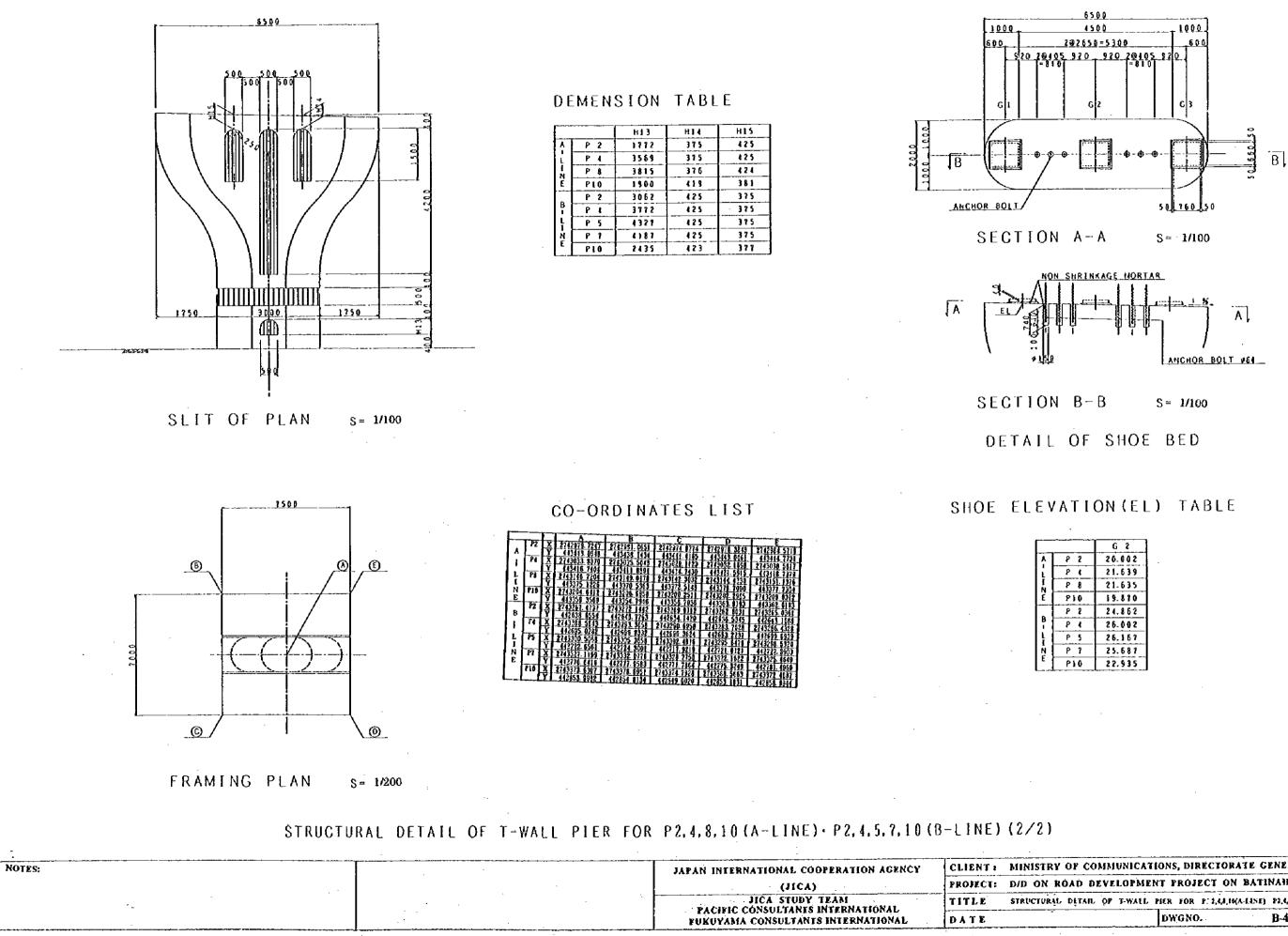
NOTE : THE CROSSFALL VALACES TO THE RIGHT SI PLUS AND THE ONES TO THE LEFT IS MINUS.



	DWGNO.	B-46
DETAIL OF TWALL	FIER FOR P 2,4,4	10(A-LINE) \$7,4,5,7,16(B-LINE) (17)
		N BATINAH HIGHWAY
OF COMMUNICAT	IONS, DIRECTO	RATE GENERAL OF ROAD

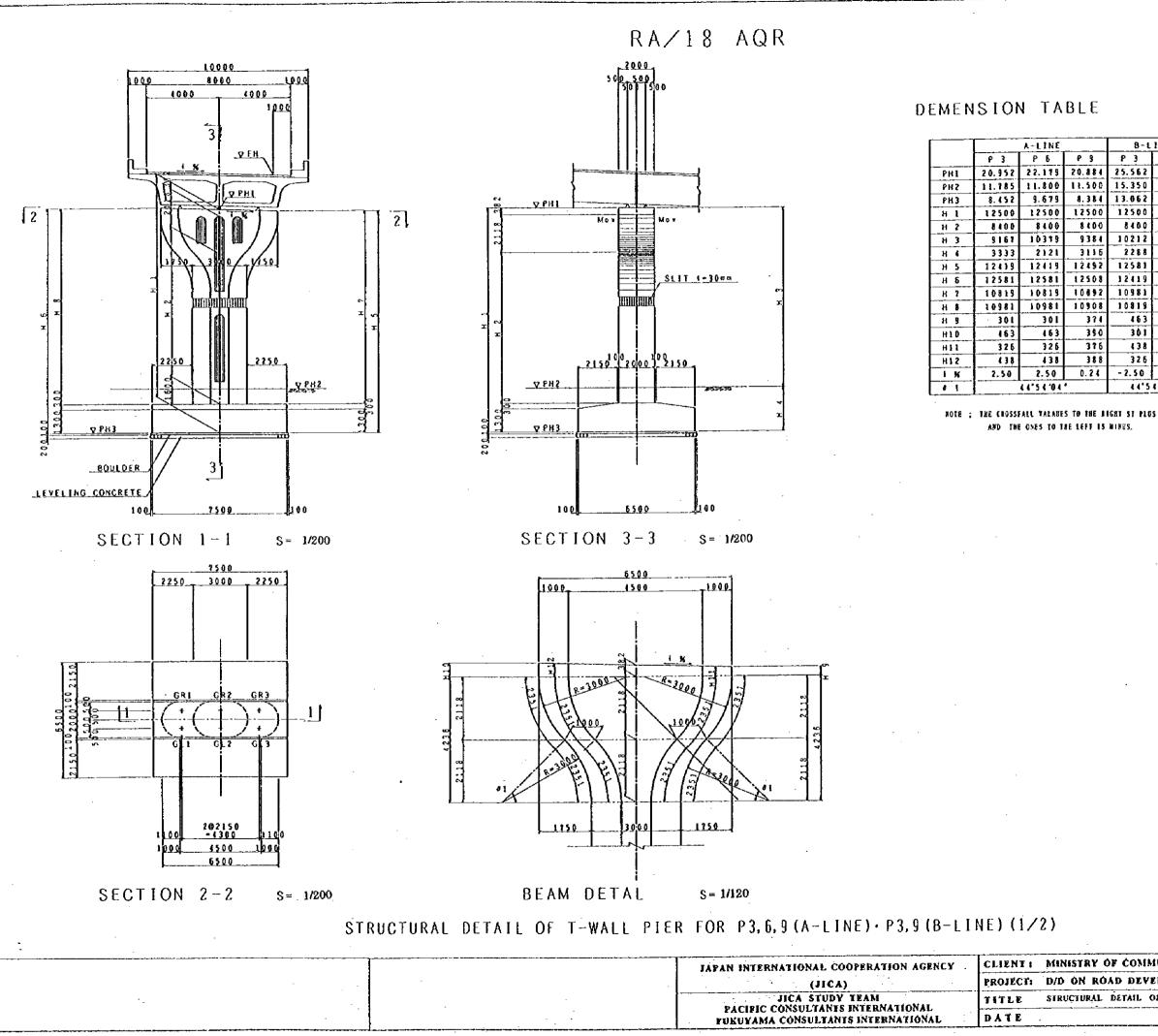
RA/18 AQR

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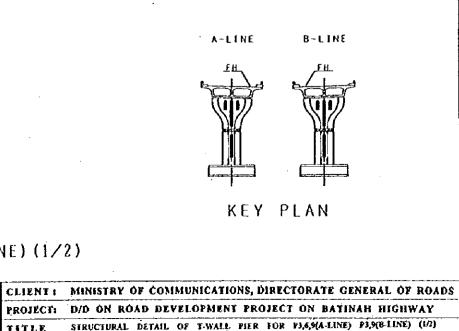
	G 2
2	20.002
4	21.639
8	21.635
10	19.870
2	24.852
4	26.002
5	26.167
?	25.687
10	22.935

P COMMUNIC	ATIONS, DIRECTOR	ATE GENERAL OF ROADS
AD DEVELOPM	IENT PROJECT ON	BATINAN NIGHWAY
ETAIL OF T-WAL	L PIER FOR P. 2,4,8,14	(A-LINE) \$2,4,5,7,10(B-LINE) (12)
<u>.</u> .	DWGNO.	B-47



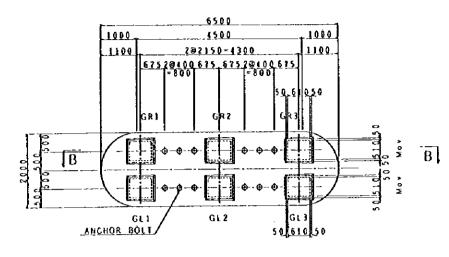
÷

8-1	INE
P 3	P 5
25.562	24.122
15.350	14.670
13.062	11.622
12500	12500
8400	8400
10212	\$452
2288	3048
12581	12581
12419	12415
10981	10981
10819	10815
463	183
301	301
438	438
326	326
- 2.50	-2.50
EC'5	1'01'

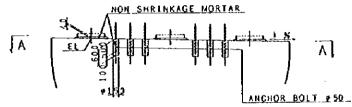


-	DETAIL	07	T-WALL	PIER	FOR	P3,6,9(A-LINE)	\$3.9	(8-1.1NE)	(1/2)	-
				DWGI	NÓ.	B-48				_
-										

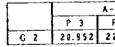
RA/18 AQR

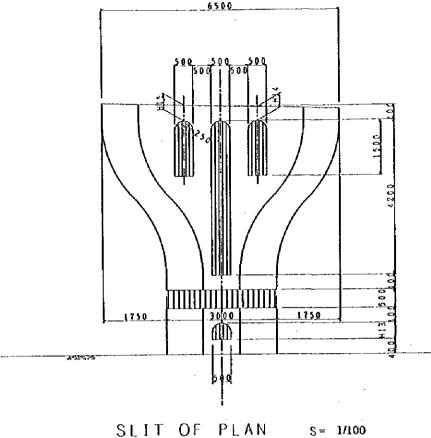




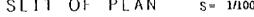


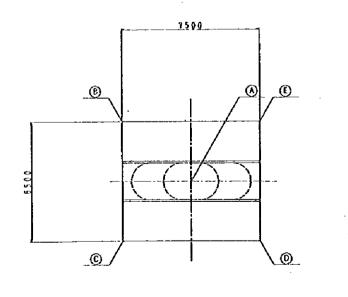
SECTION B-B





and the second second





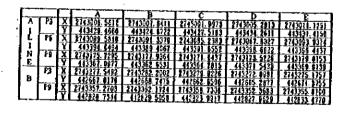
FRAMING PLAN S= 1/200

#### B-LINE A-LINE

DEMENSION TABLE

	P 3	P 6	P 9	<u> </u>	P 5
H13	2867	4079	3081	3912	3152
H14	375	375	398	425	425
H15	425	425	402	375	375

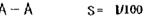
## CO-ORDINATES LIST



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## STRUCTURAL DETAIL OF T-WALL PIER FOR P3.6.9 (A-LINE) · P3.9 (B-LINE) (2/2)

NOTES:	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF
AULS.	(ADEL)	PROJECT:	D/D ON ROAD
	JICA STUDY TEAM	TITLE	STRUCTURAL DE
	PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	DATE	
			-



S= 1/100

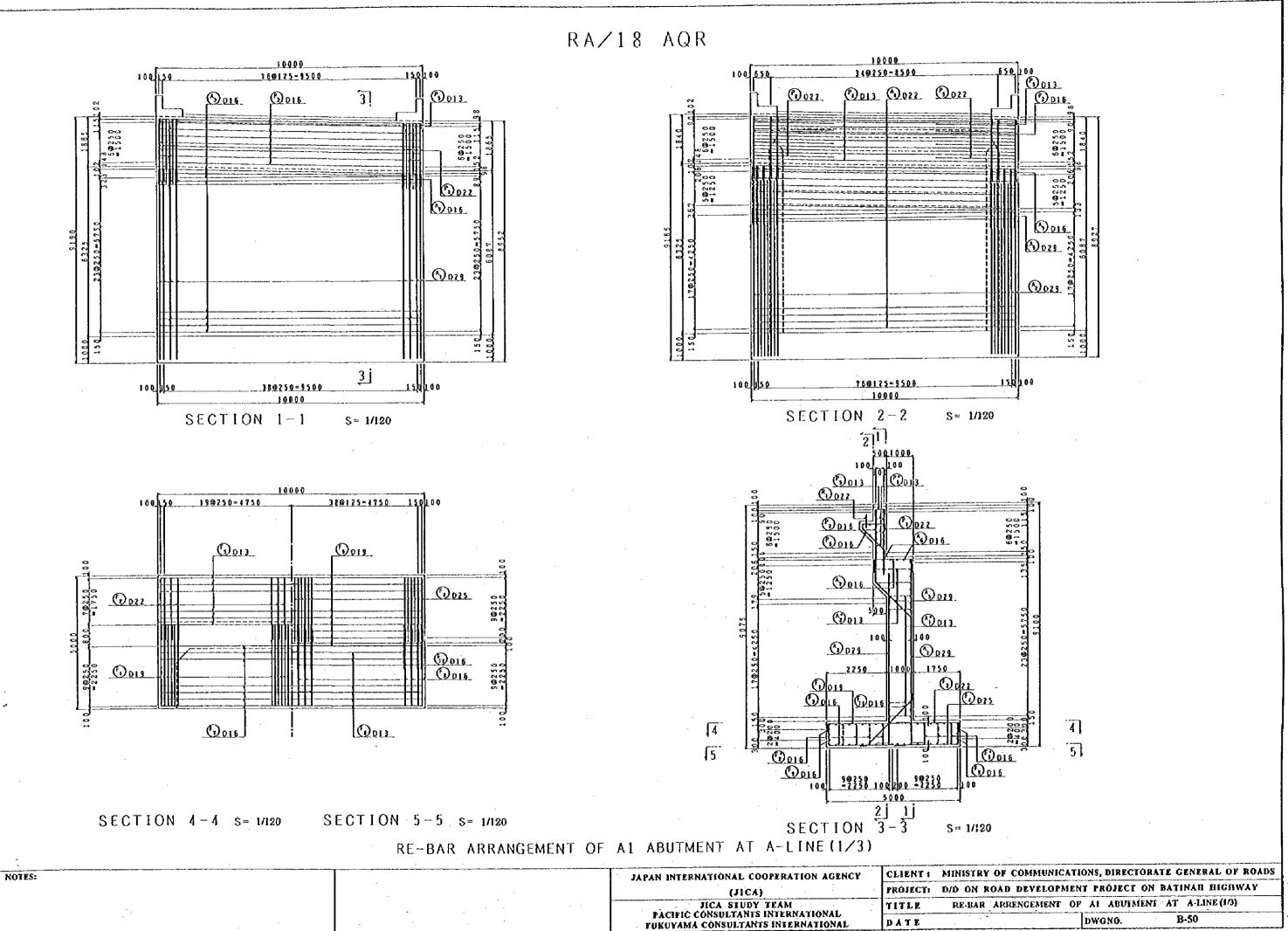
DETAIL OF SHOE BED

### SHOE ELEVATION (EL) TABLE

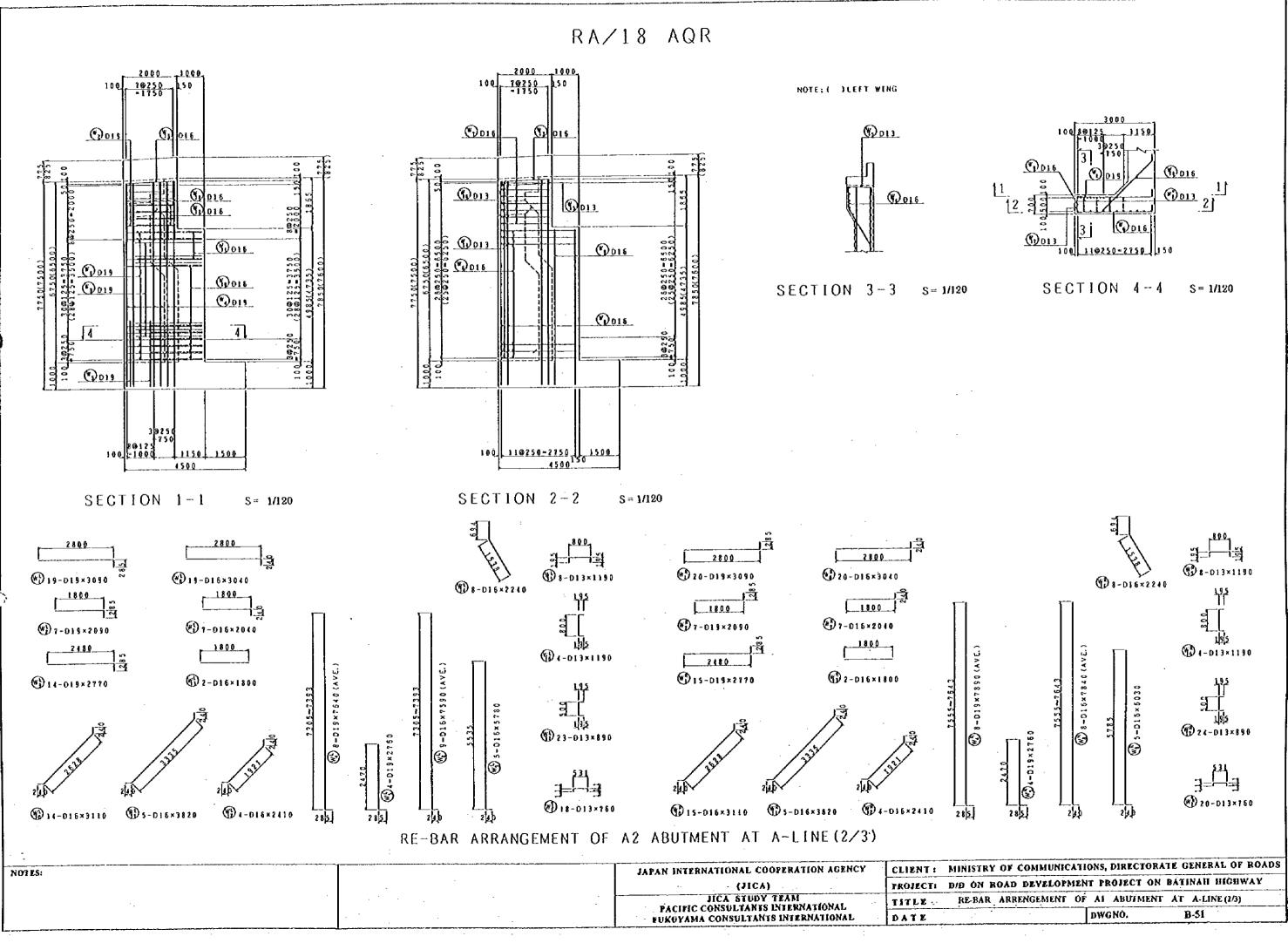
-LINE B-1			INE
P 5	P 9	P 3	P 9
22.179	20.884	25.562	24.122

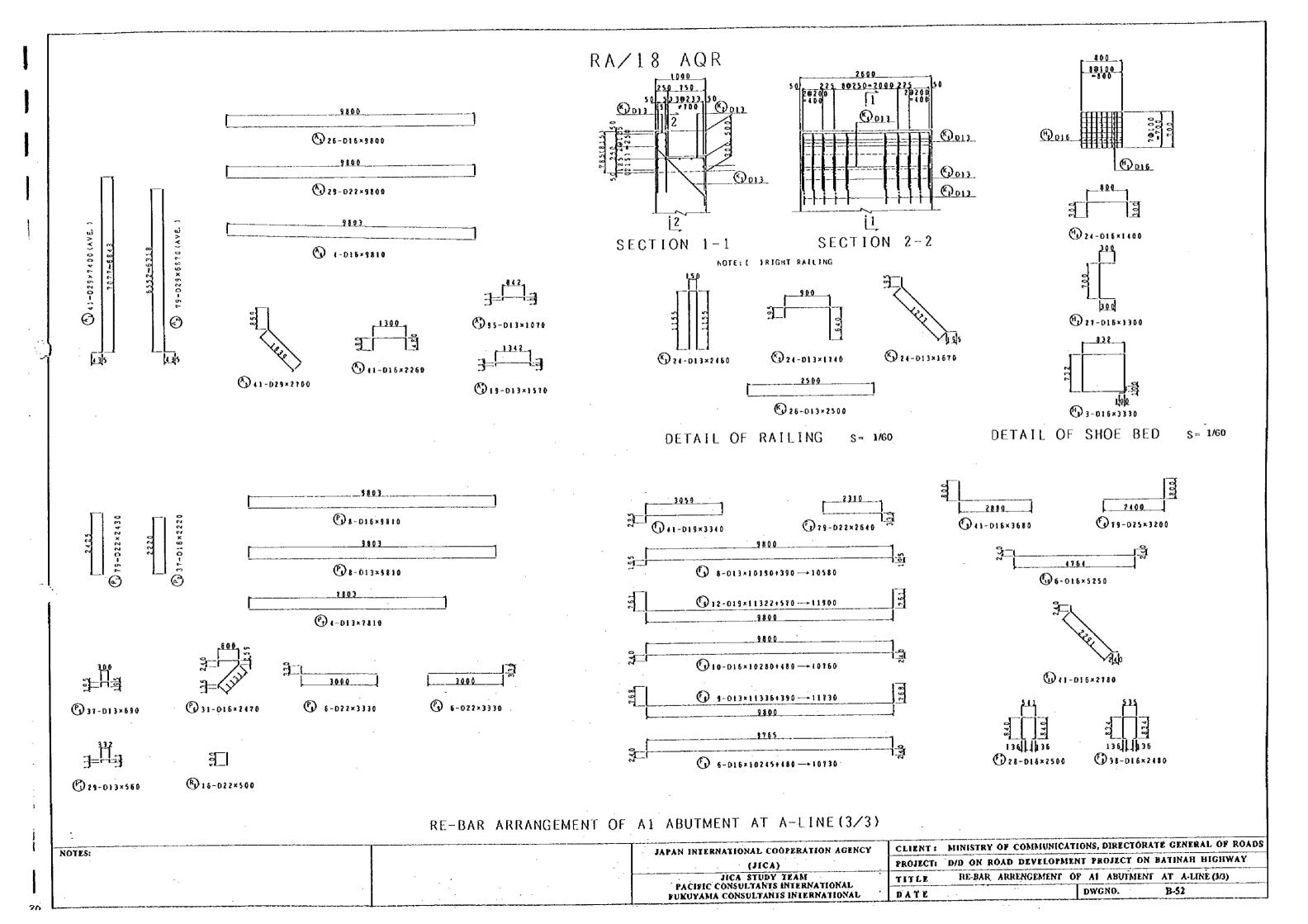
.

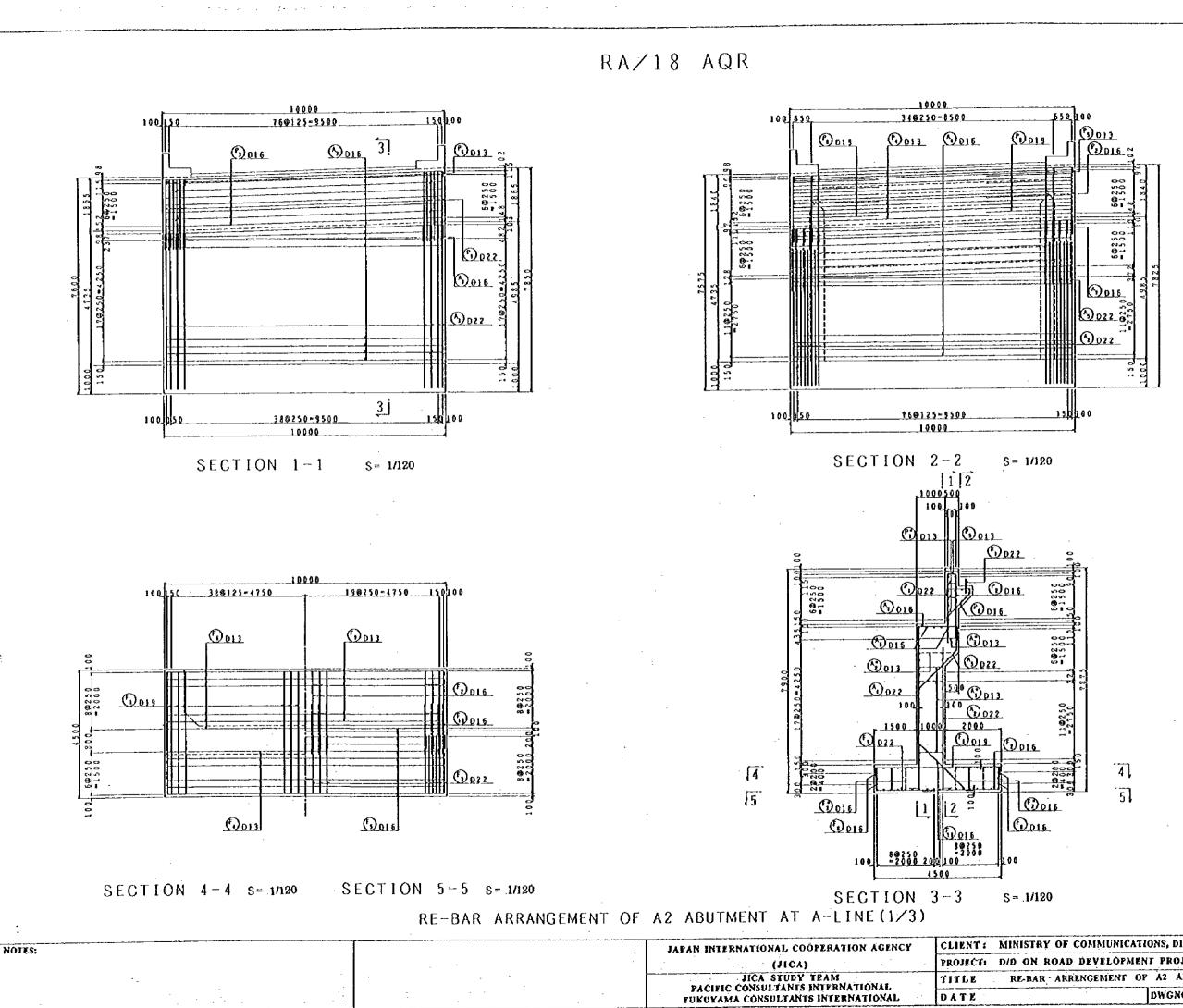
		•	
	TIONS DIRFOTO	RATE GENERAL OF	POLDO
•		N BATINAH HIGH 1,9(A-LINE) P3,9(B-LINE)	
· · · · · · · · · · · · · · · · · · ·	DWGNO.	B-49	



B-50 DWGNO.



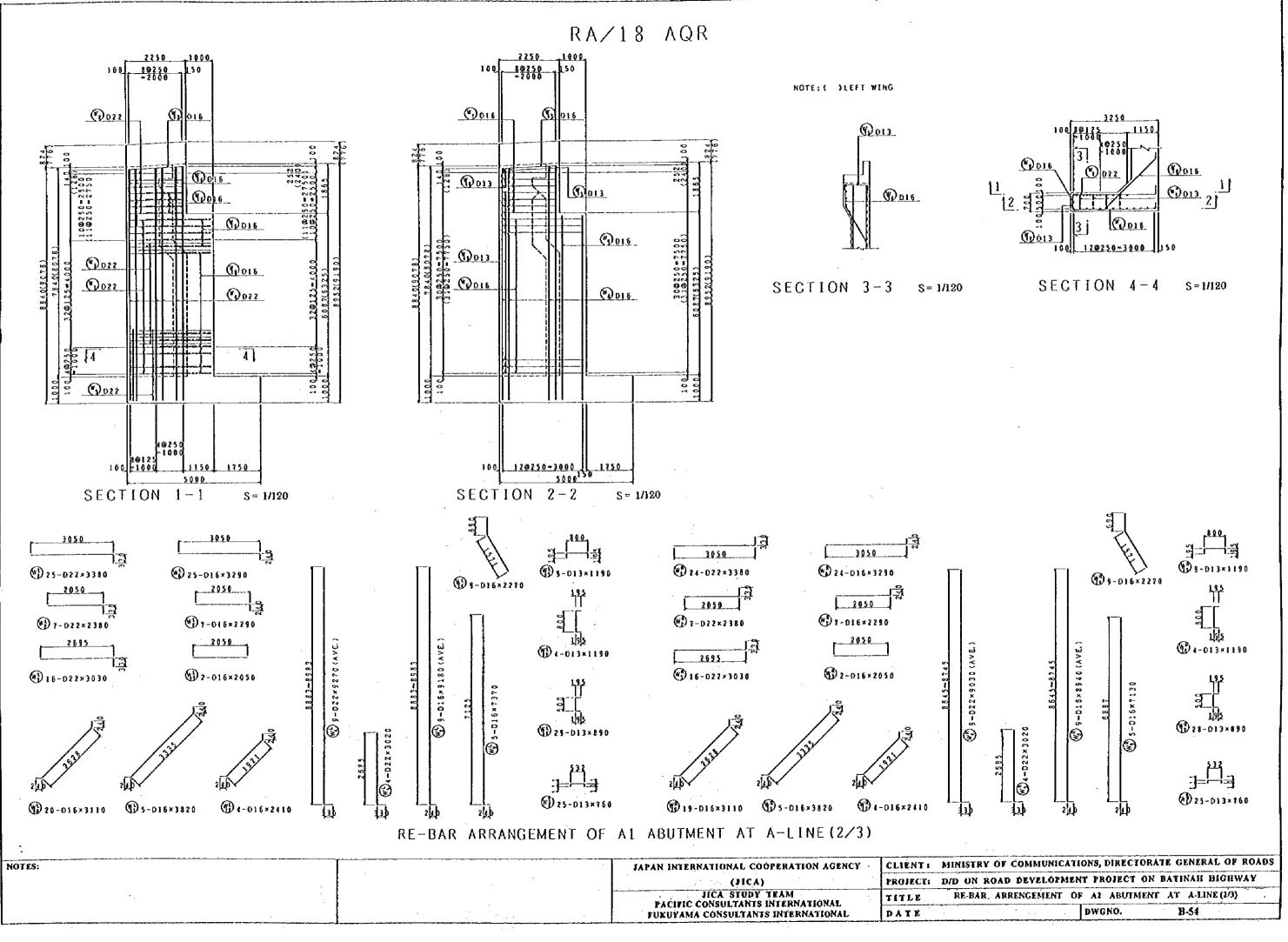


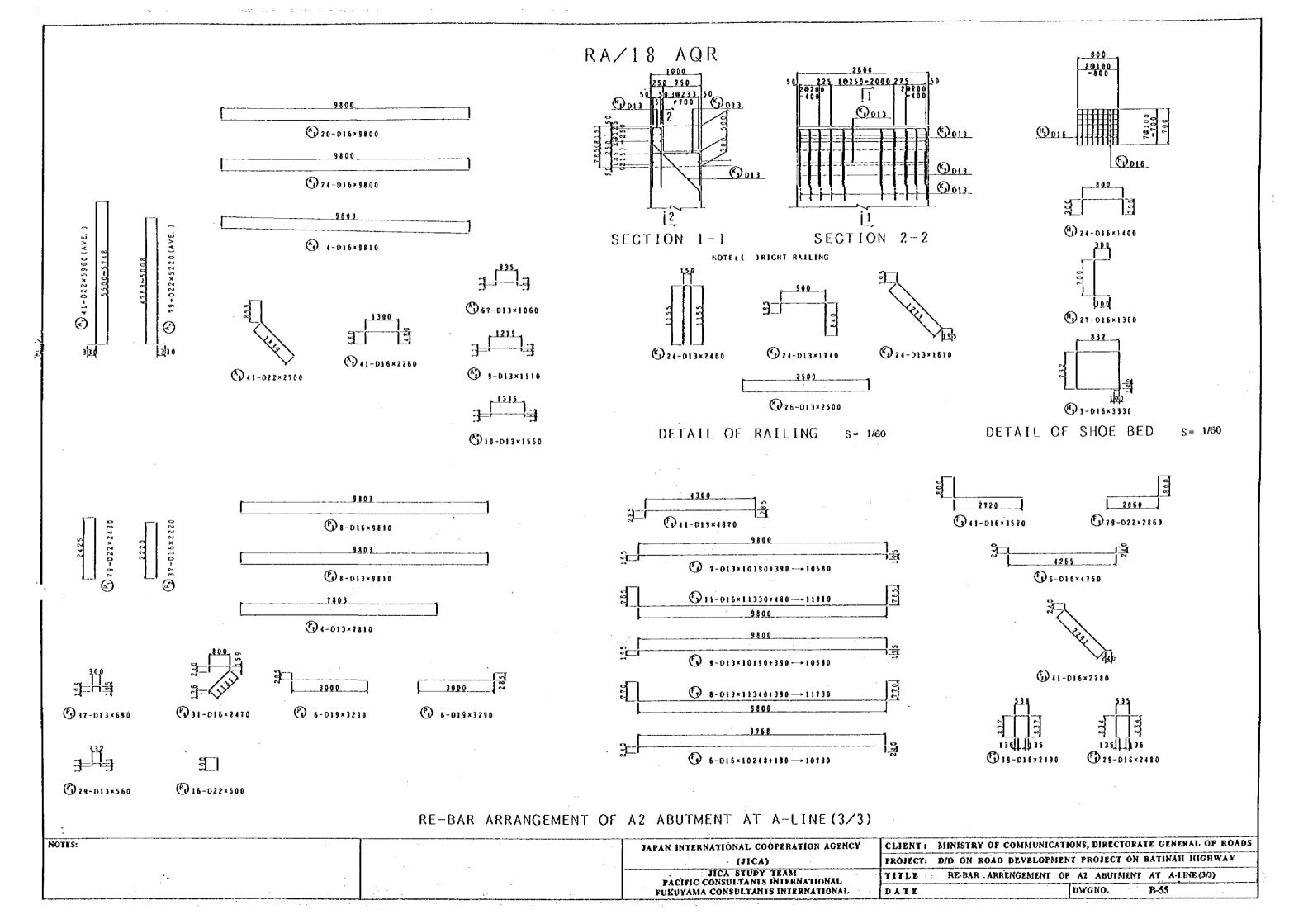


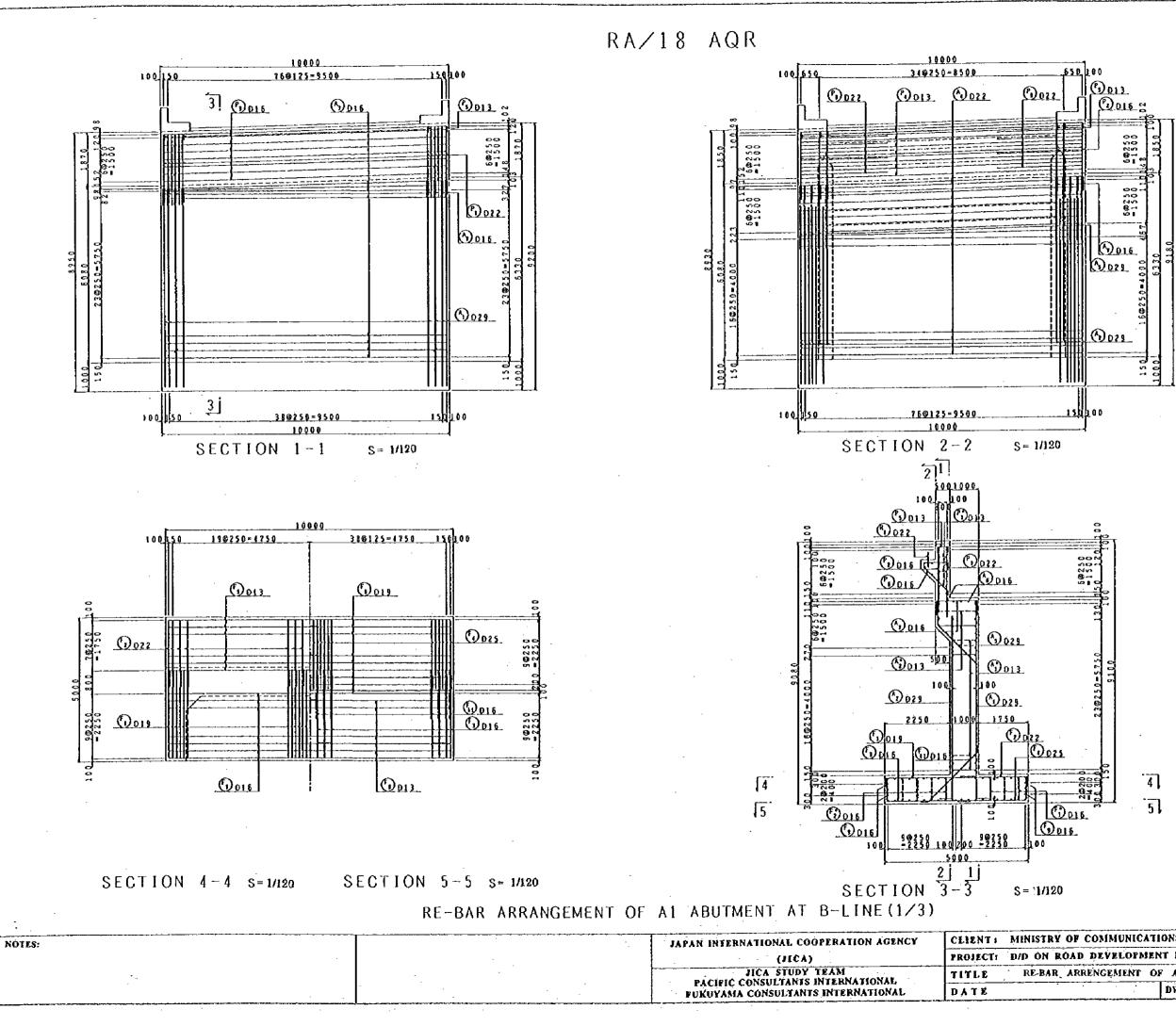
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AF COMMUNICIAL		TE GENERAL OF ROADS
AD DEVELOPMEN	F PROJECT ON	BATINAH HIGHWAY
ARRENGEMENT OF	A2 ABUTMENT	AT A-LINE (1/3)
	DWGNO.	B-53

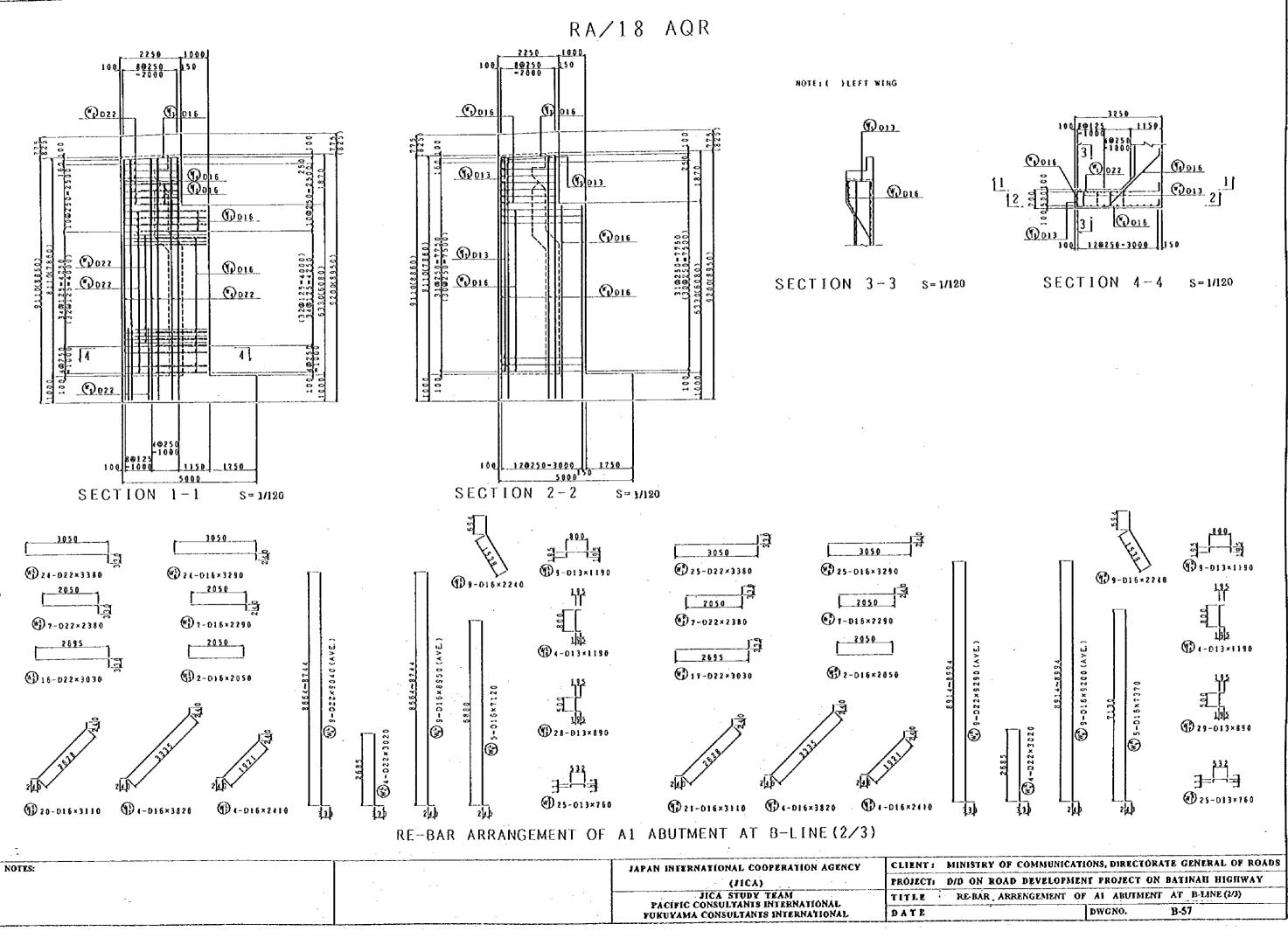




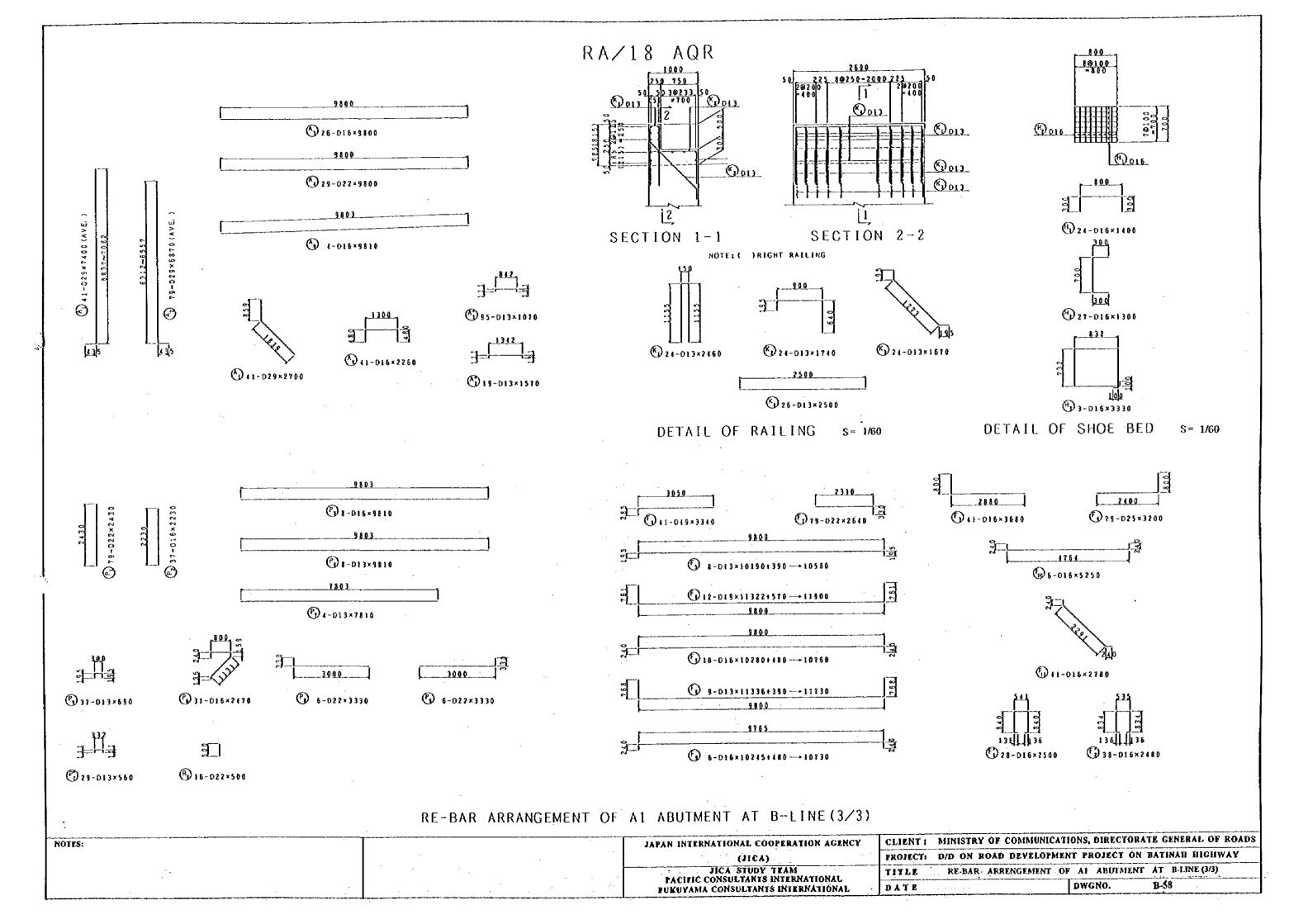


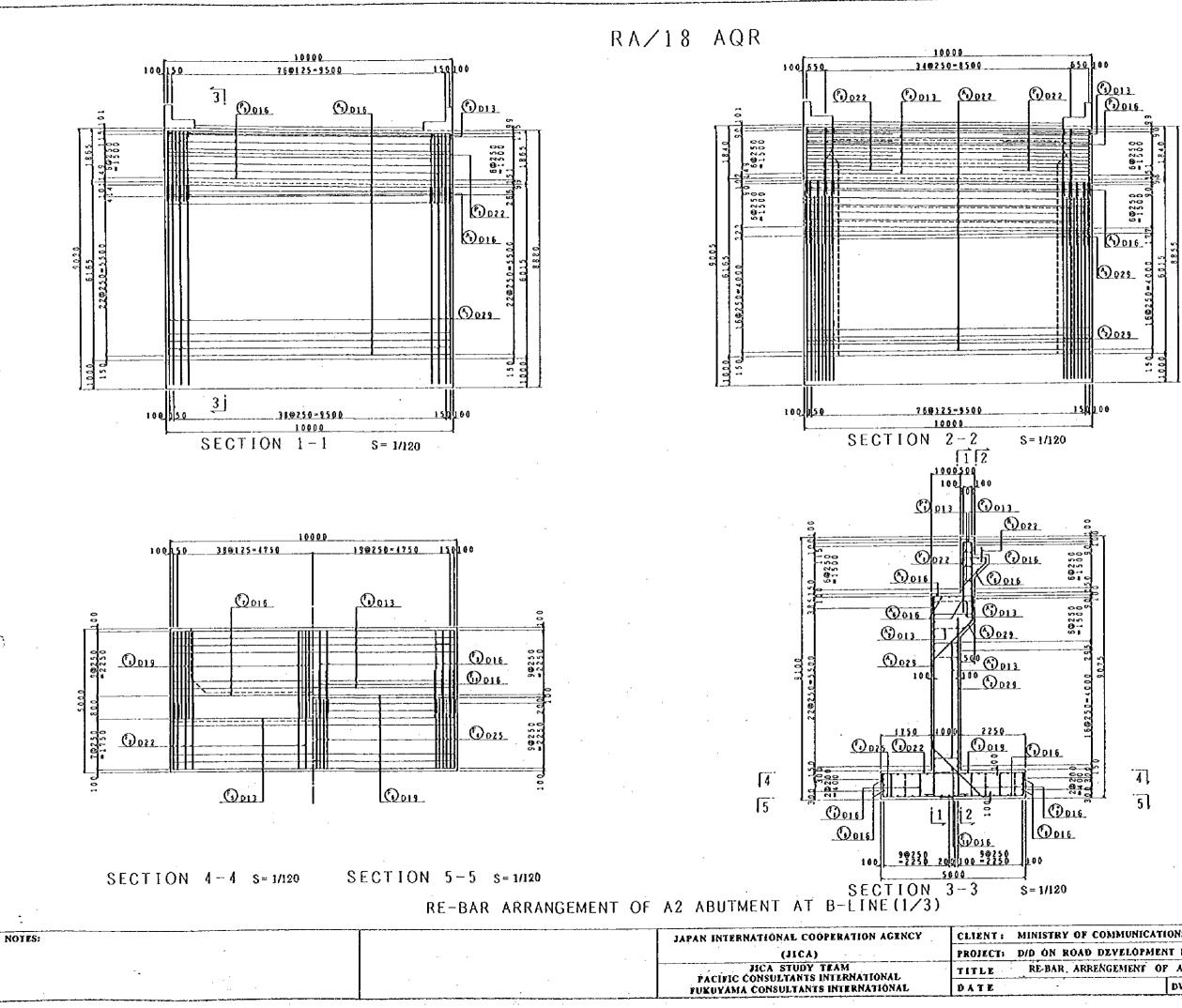
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D	-	
OF COMMUNICAT	IONS, DIRECTORA	TE GENERAL OF ROADS
CAD DEVELOPMEN	T PROJECT ON	ВАТІНАП ПІСНЖАЧ
ARRENGEMENT O	F A1 ABUIMENT	AT B-LINE (1/3)
	DWGNO.	B-56

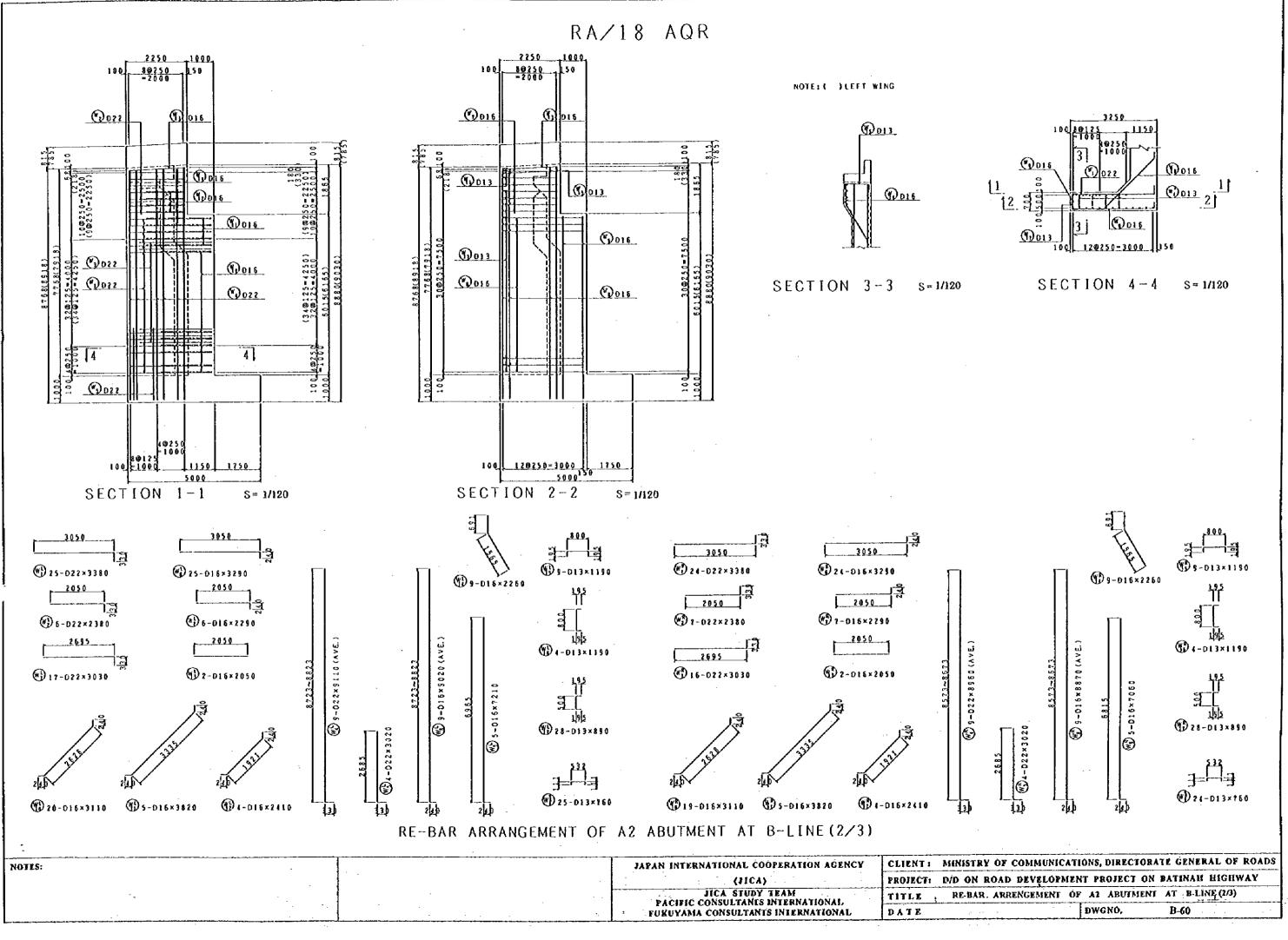


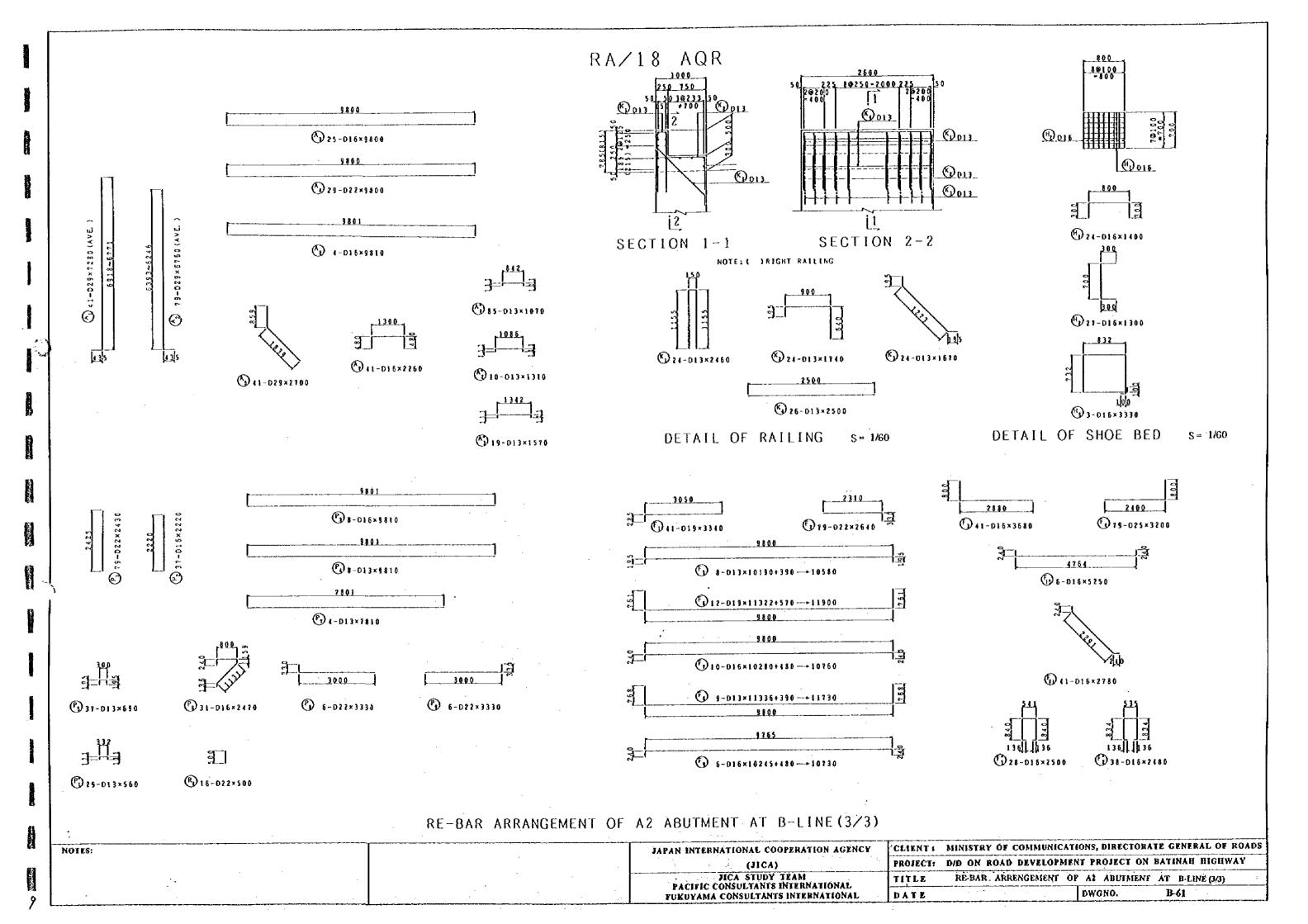
yr L

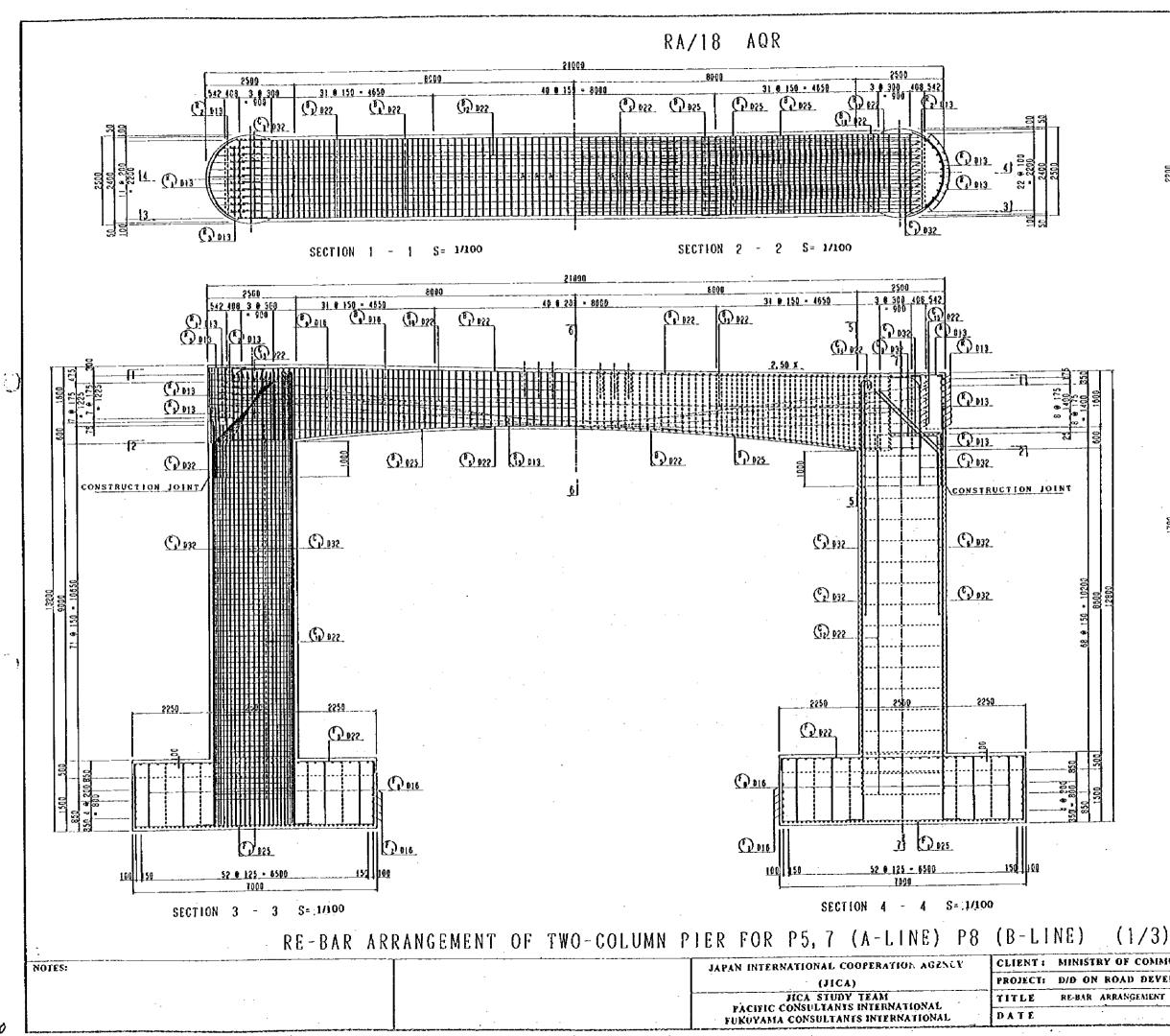


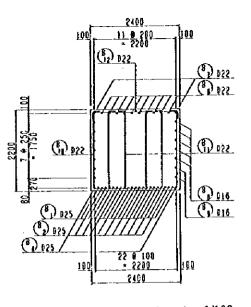


Y OF COMMUNICATI	ONS, DIRECTORA	TE GENERAL OF ROAD
ROAD DEVELOPMEN	T PROJECT ON	BATINAH HIGHWAY
ARRENGEMENT OF	A2 ABUIMENT	AT B-LINE (1/3)
	DWONO,	B-59

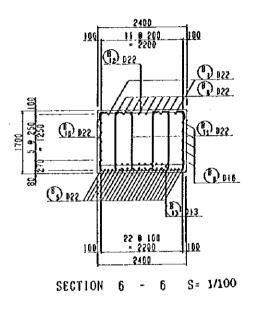




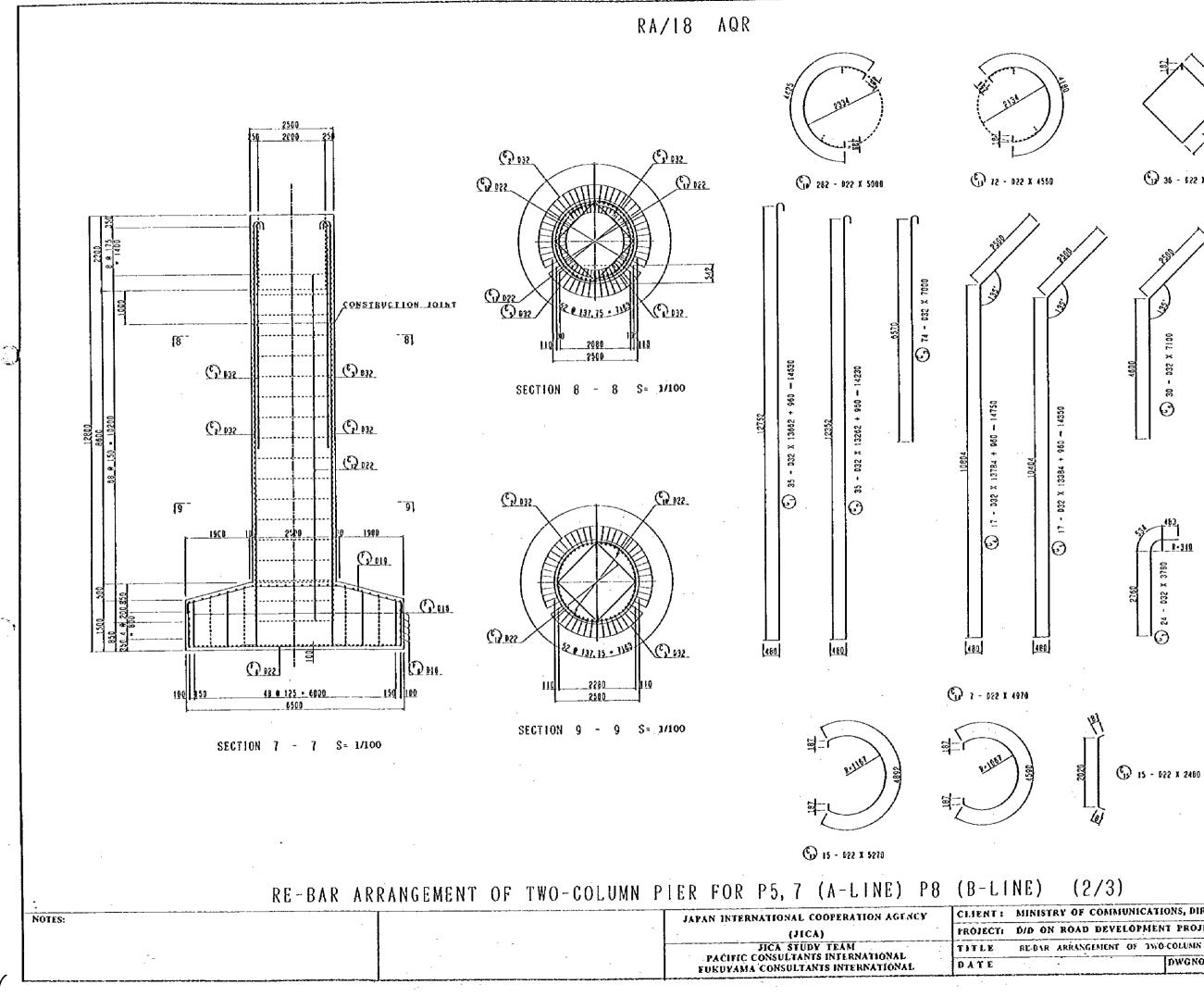


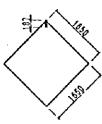




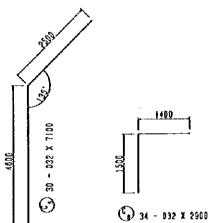


## (B-LINE) (1/3) CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY TITLE RE-BAR ARRANGEMENT OF TWO-COLUMN PIERFOR 25.7(A-LINE) PA(B-LINE) (1'3) DATE DWGNO. B-62

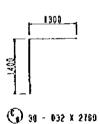




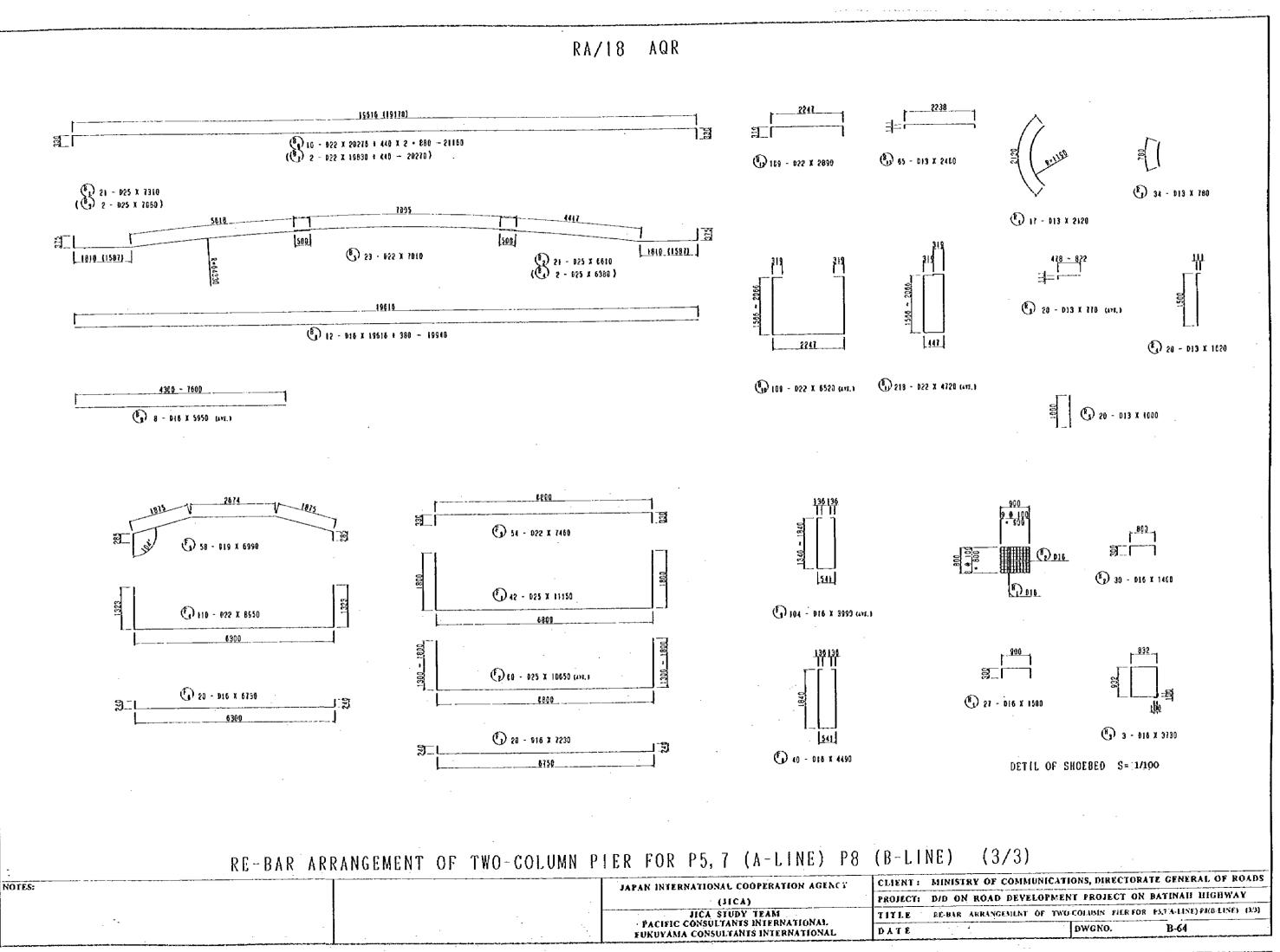
🕞 35 - 622 X 6580

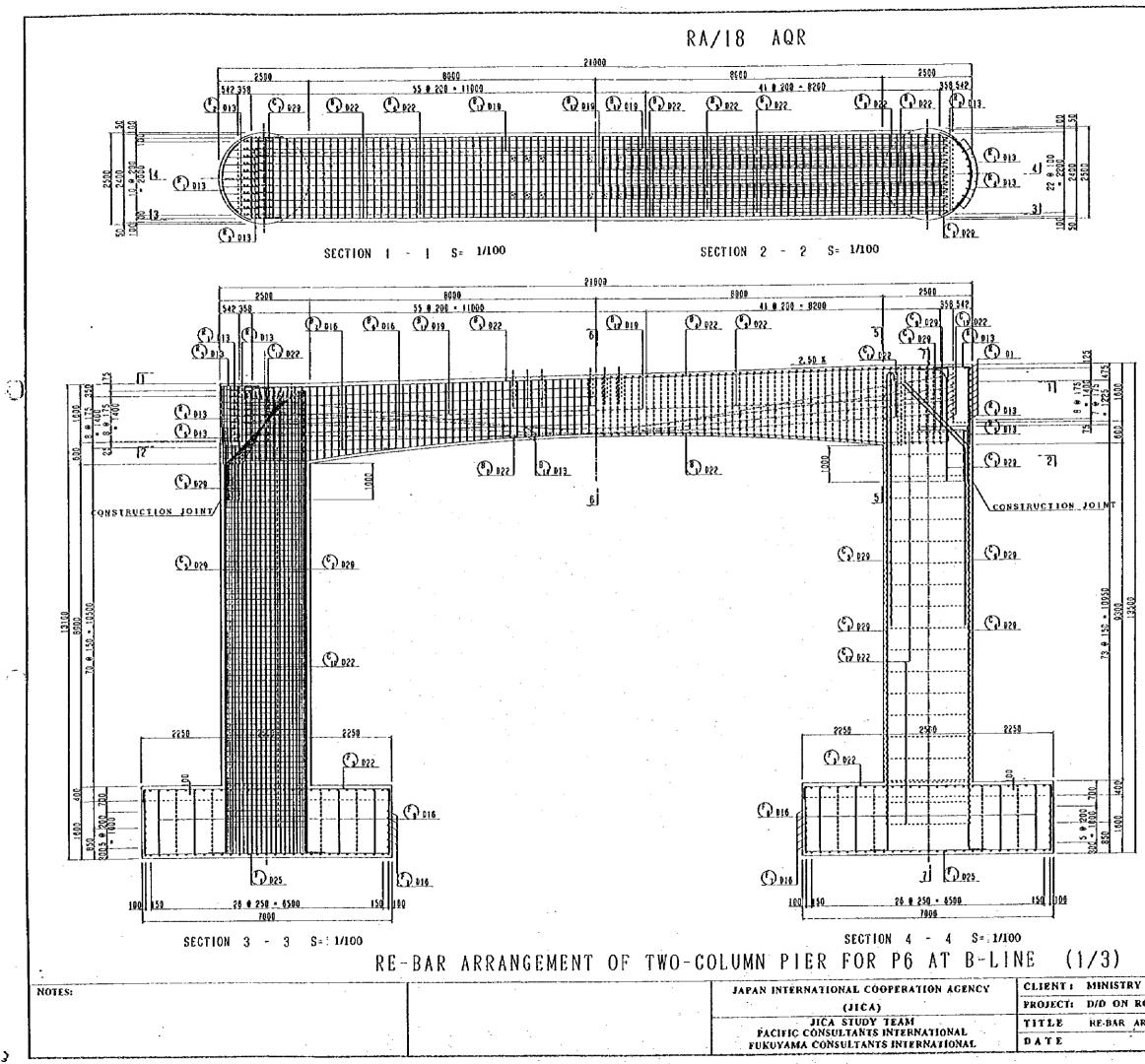


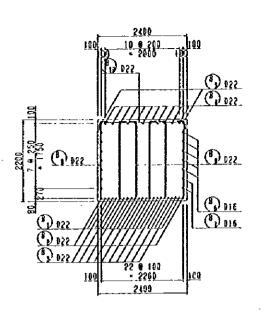




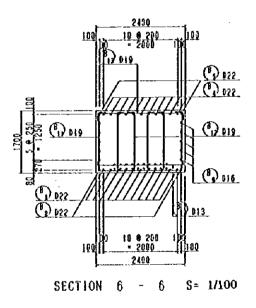
(2/3)		
OF COMMUNICATI	ONS, DIRECTORATE GENERAL OF ROA	UDS
OAD DEVELOPMEN	T PROJECT ON BATINAH HIGHWAY	
RILANGEMENT OF TWO	COLUMN FIERFOR P3,7(4-LINE) FR(B-LINE)	(1/3)
	DWGNO. B-63	



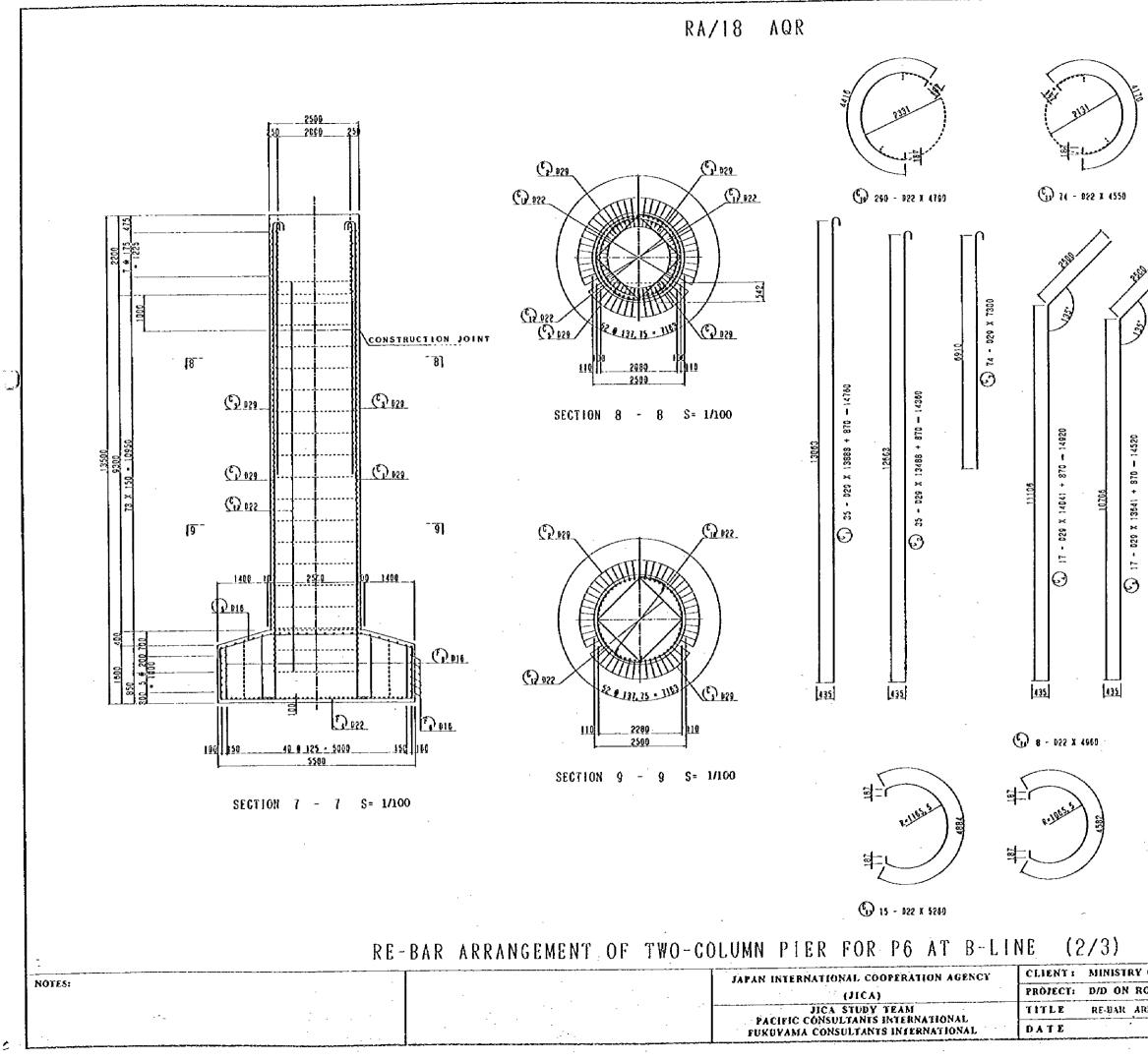


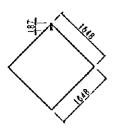




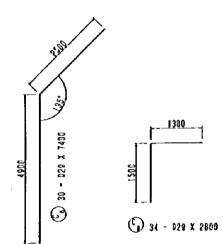


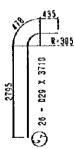
	•		
		•	
OF COMMUNICA	TIONS, DIRECTO	RATE CENERAL	OF ROADS
OAD DEVELOPMI	INT PROJECT O	N BATINAB HI	GRWAY
RRANGEMENT OF	WO-COLUMN PI	ER FOR P6 AT	B-LINE (1/3)
	DWGNO.	B-65	

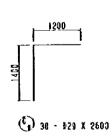




() 37 - D22 x 6970



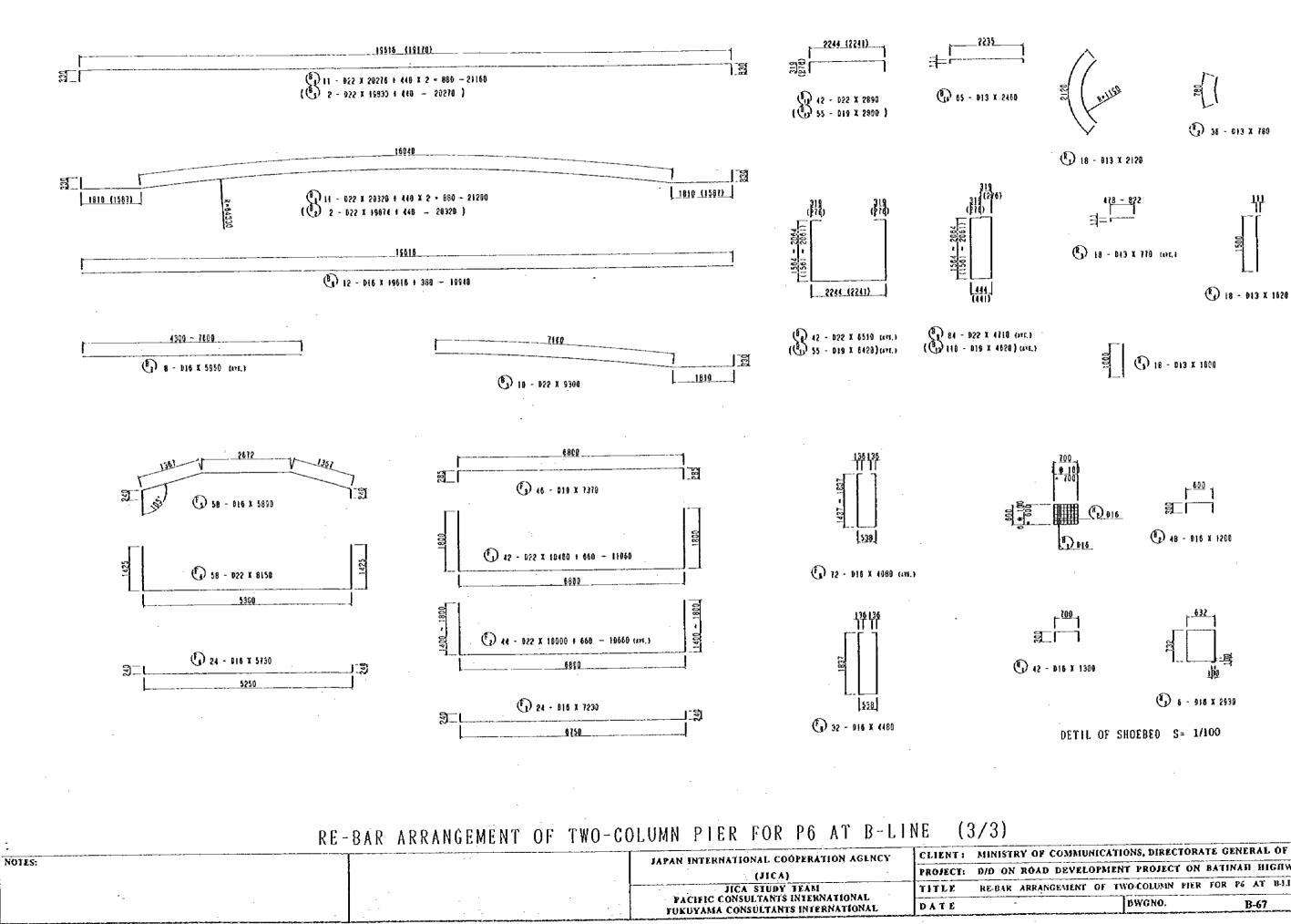


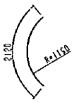


15 - D22 X 2400

OAD DEVEL	OPM	IENT PROJE	CT ON	BATI	NAI		GHWAY	
DRANCEMENT	ÓF	TWO-COLUM	N PIER	FOR	P6	AT	B-LINE (1	3)

RA/18 AQR



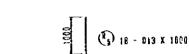




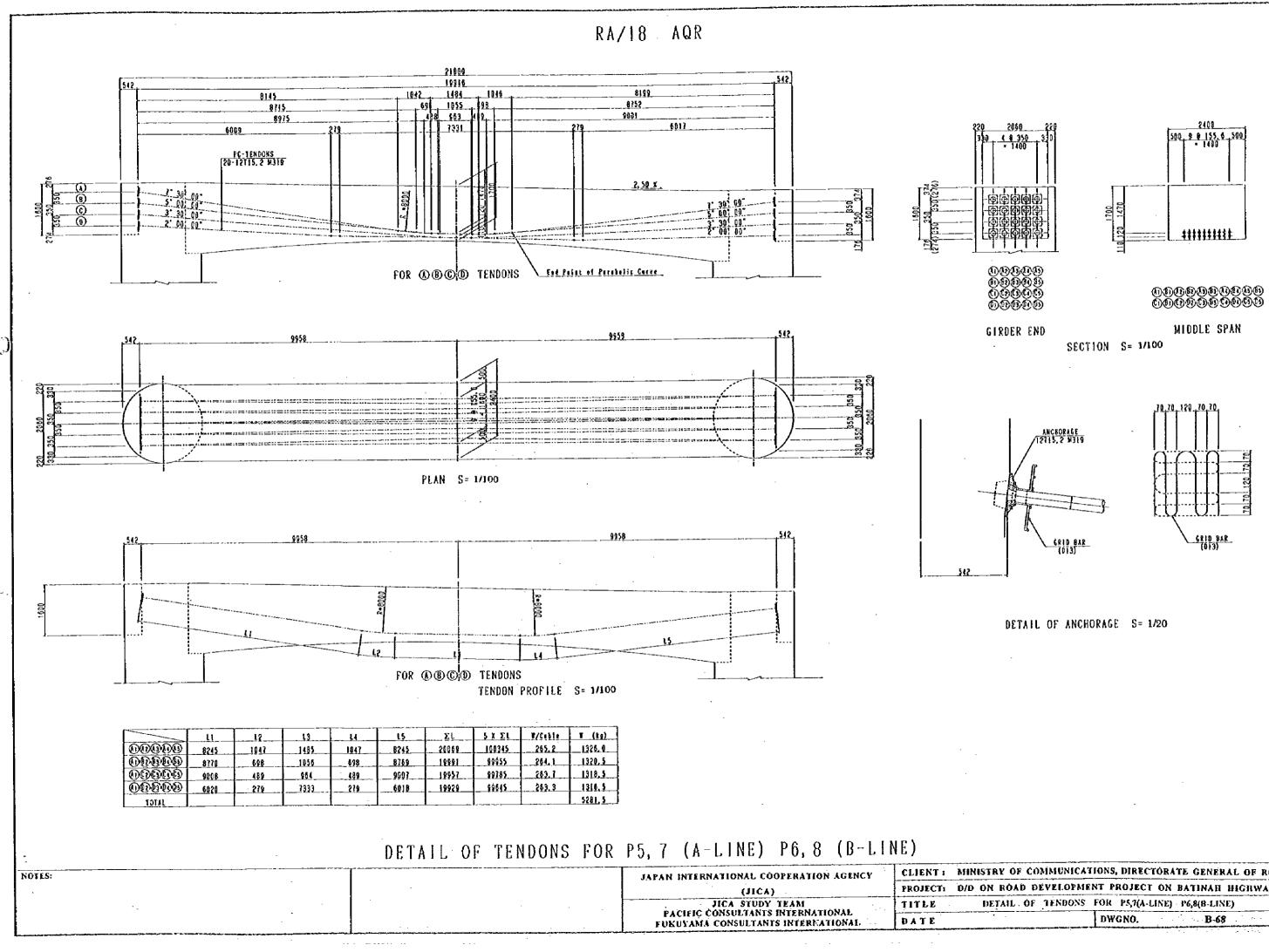




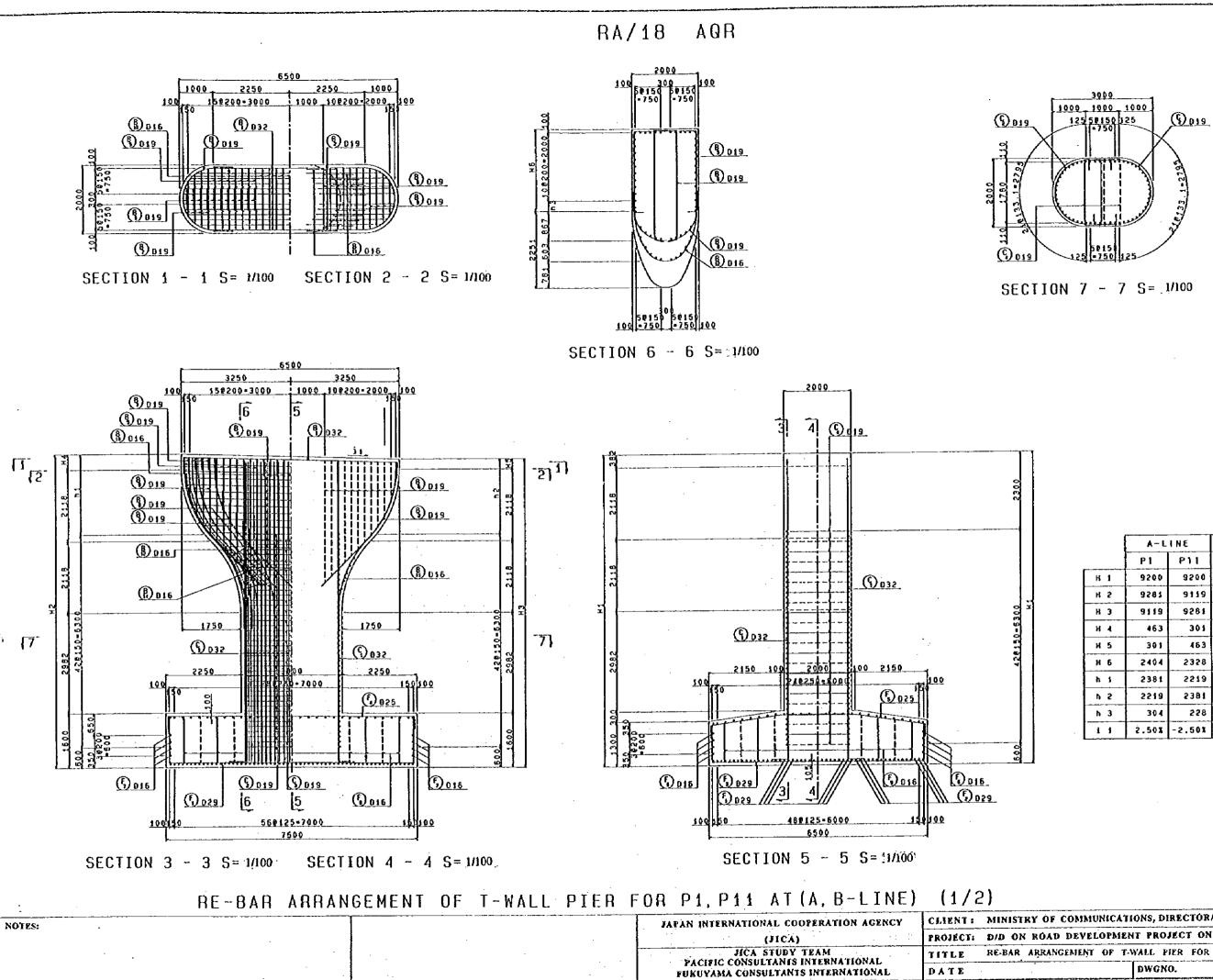




	BWGNO.			I	3-67		
RRANGEMENT OF TV	VO-COLUMN	PIER	FOR	<b>P</b> 6	AT	B-119	E (3/3)
OAD DEVELOPMEN							
OF COMMUNICATI							



OF COMMUNICAT	IONS, DIRECTORATE GENERAL OF ROAL
	RT PROJECT ON BATINAH HIGHWAY
IL OF TENDONS	FOR P5,7(A-LINE) P6,8(B-LINE)
	DWGNO. B-68
	والمراجع المحمد والمحارك والمراكبة ومعاري مجالسان محمد معران والمحادث في المحمد وعن المحمد ومعارك ما ومن من م

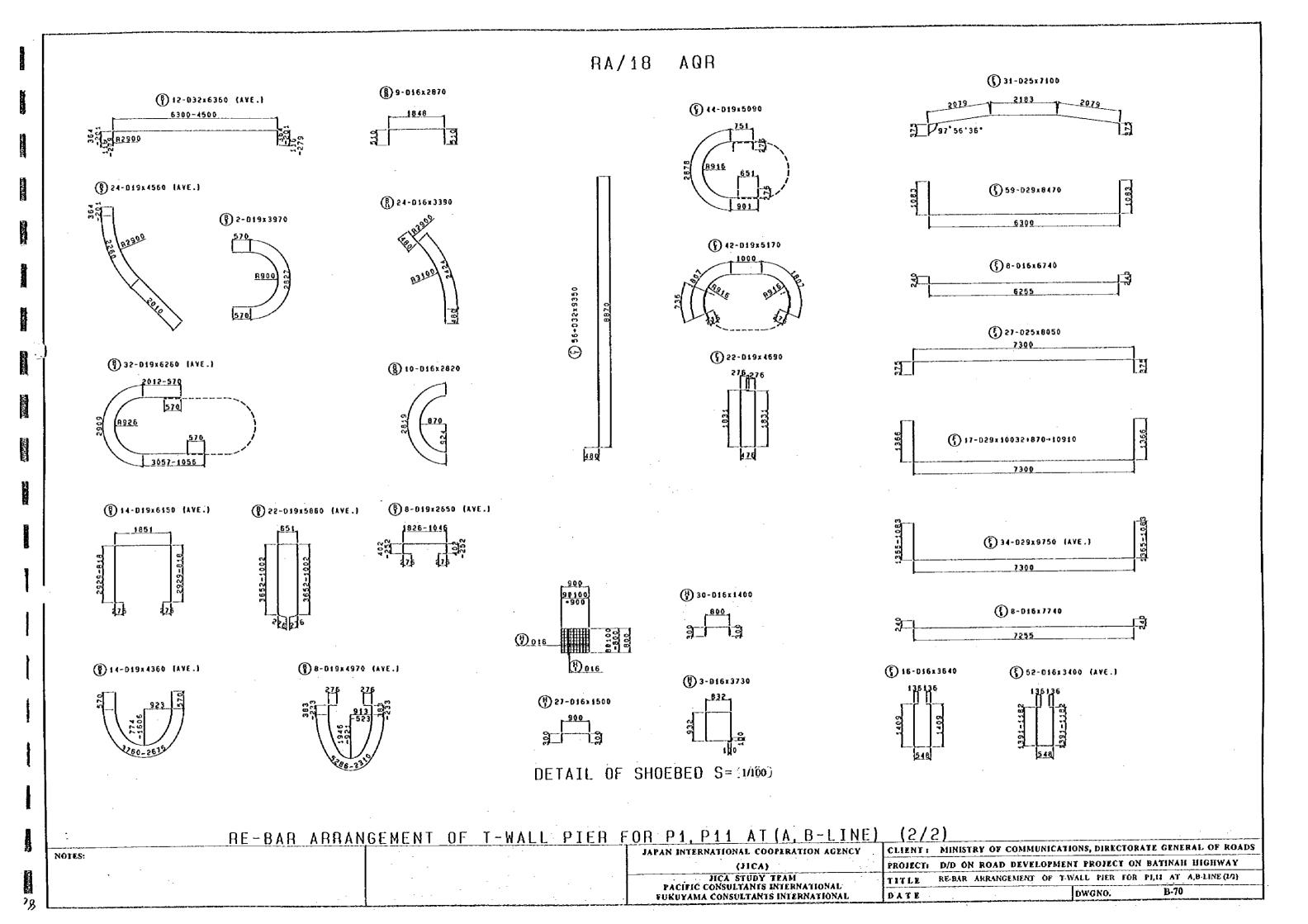


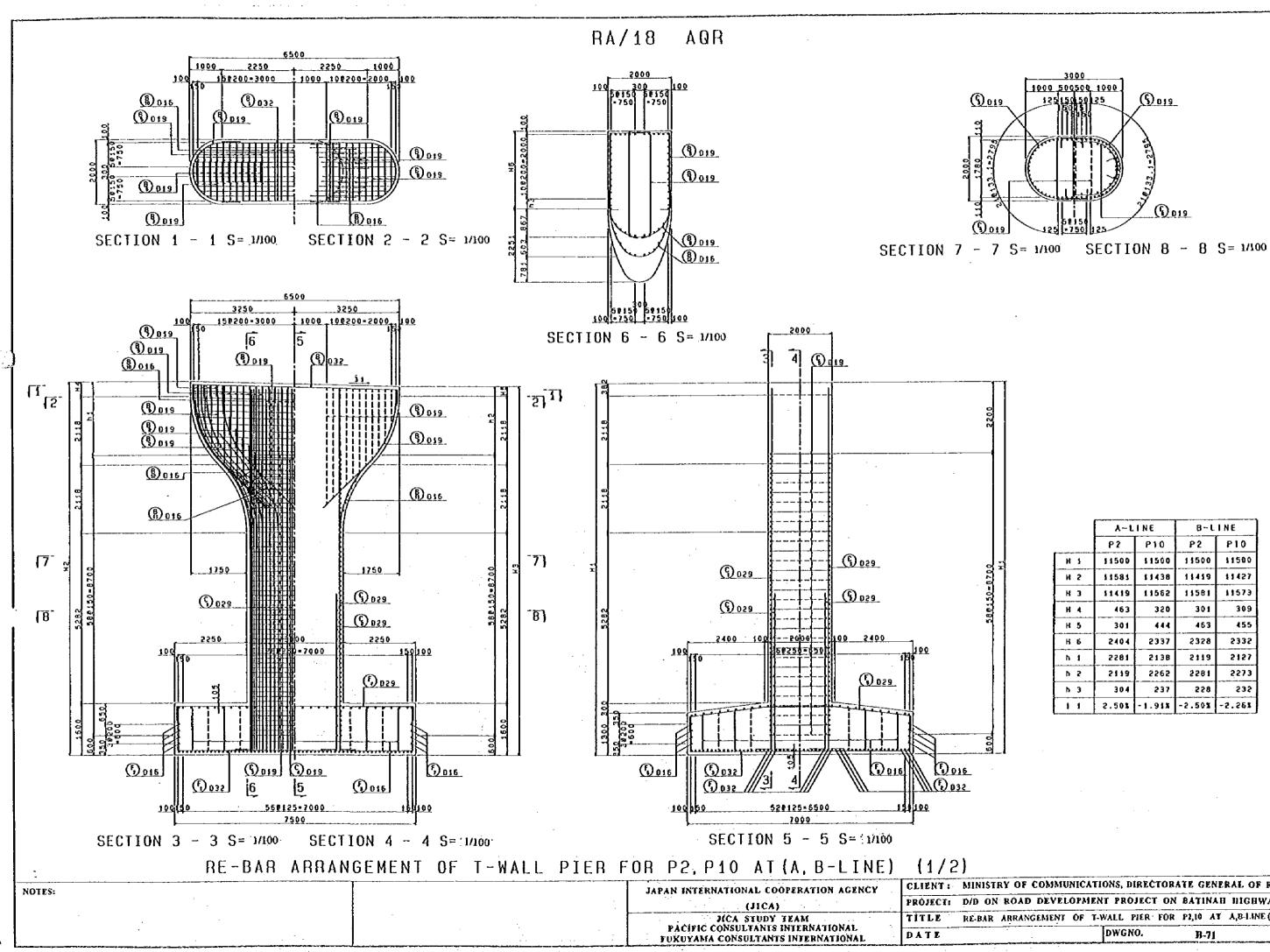
19. 19. 19. 19 A. 19

ij.

	A-L	1 N E	8-L	INE
	P1	P11	P1	P11
В 1	9200	9200	9200	9200
Н 2	9283	9119	9119	9195
нз	9119	9281	9581	9204
84	463	301	301	378
Я 5	301	463	453	386
нб	2404	2328	2328	2364
hi	2381	2219	5518	2296
P 5	2219	2381	2381	2304
h 3	304	228	228	264
i f	2.50X	-2.50%	-2.50%	-0.11%

ÓF (	OMM	INC	41101	(S. )	DIREC	TÓRA	TE G	ENE	RAL OF	ROAD
									HIGHW	
ANG	emeņt	OF	T-WA	ւ	PIER	FOR	P2,11	AT	A,B-LINE	(1/2)
			D	WG	NO.		B-6	9		

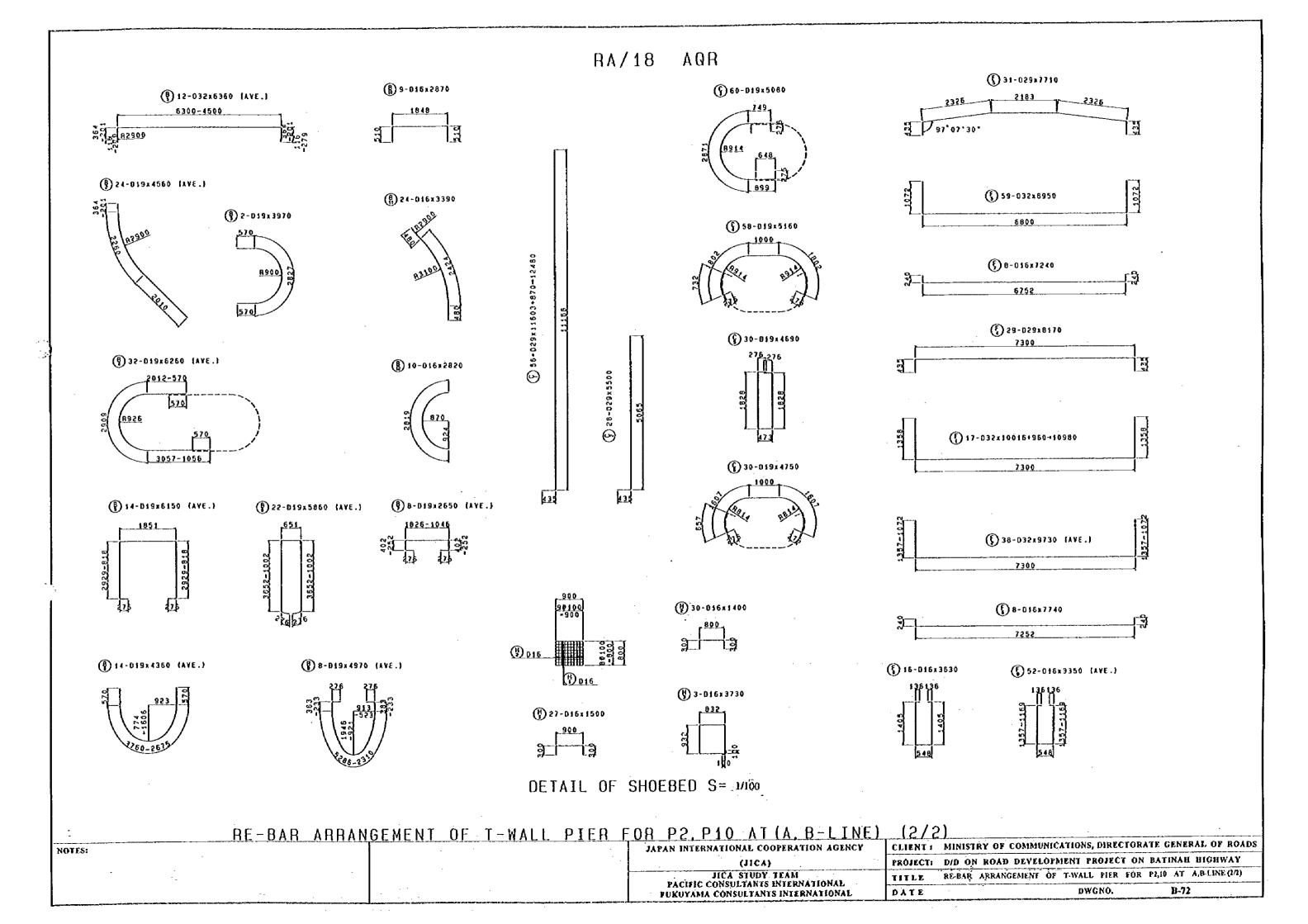


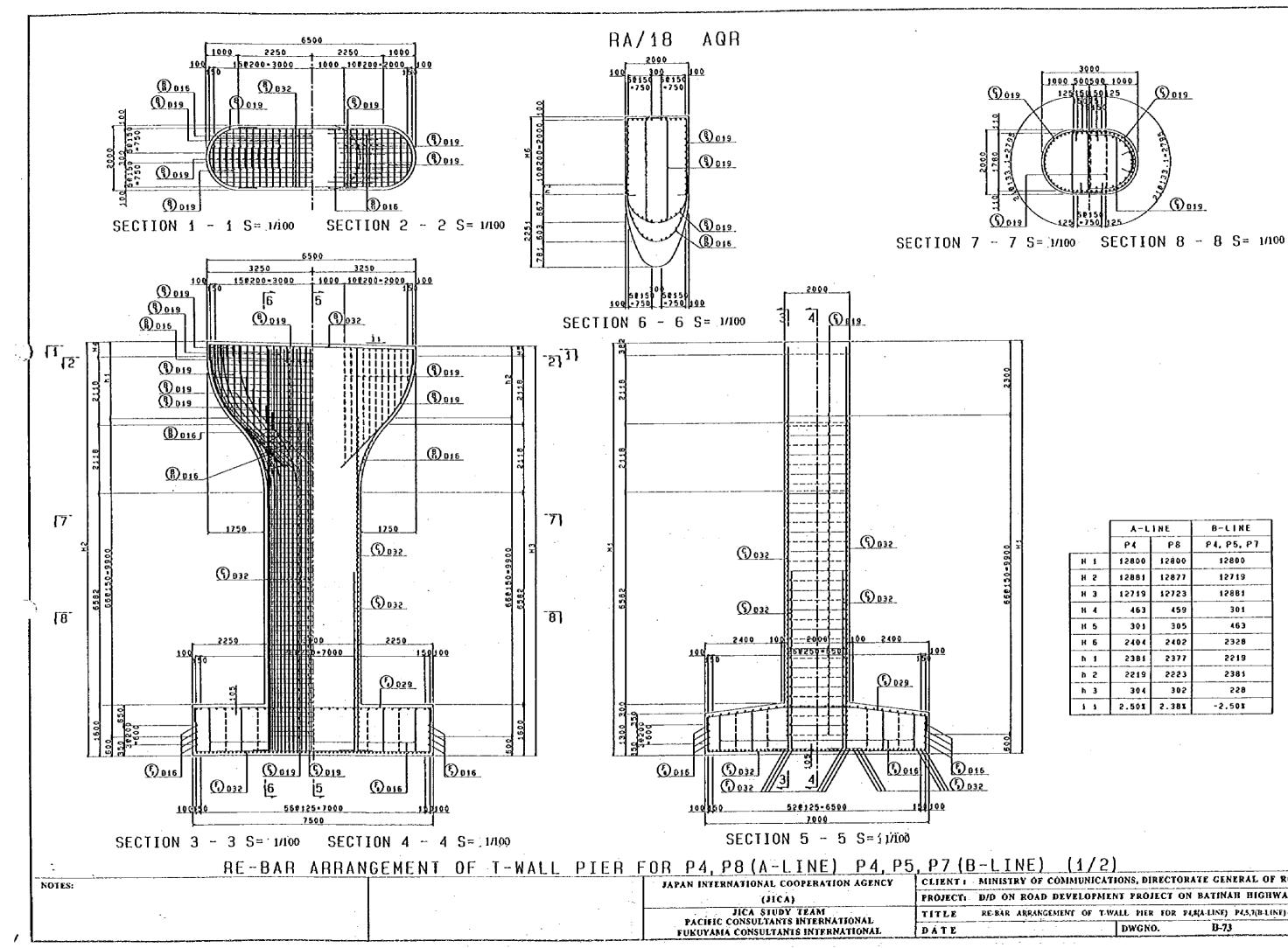


	A-1	INE	8-L	INE
	P2	P10	P2	P10
H S	11500	11500	11500	11500
Н 2	11581	11438	11419	11427
НЭ	11419	11582	11581	11573
H 4	463	350	301	309
Н 5	301	444	463	455
Кб	2404	2337	2328	2332
h 1	2281	213B	2119	2127
P 5	5113	5565	2281	2273
h 3	304	237	558	535
<b>i</b> 1	2.50%	-1.91%	-2.50%	-2.261

									-
OF	COMMU	INIĆ.	ATIONS,	DIREĊI	ORA	te g	ENE	RAL OF	ROADS
ÓAD	DEVEL	.072	IENT PR	OJECT	ON	BATI	NAII	nicay	***
RAN	GEMENT	ÓF	T-WALL	PIER	FOR	P2,10	AT	A,8-LIN	E (1/1)
RAN	GEMENT	ÔF	T-WALL	PIER	FOR	P2,10	AT	A,8-1.1N	E (1/2)

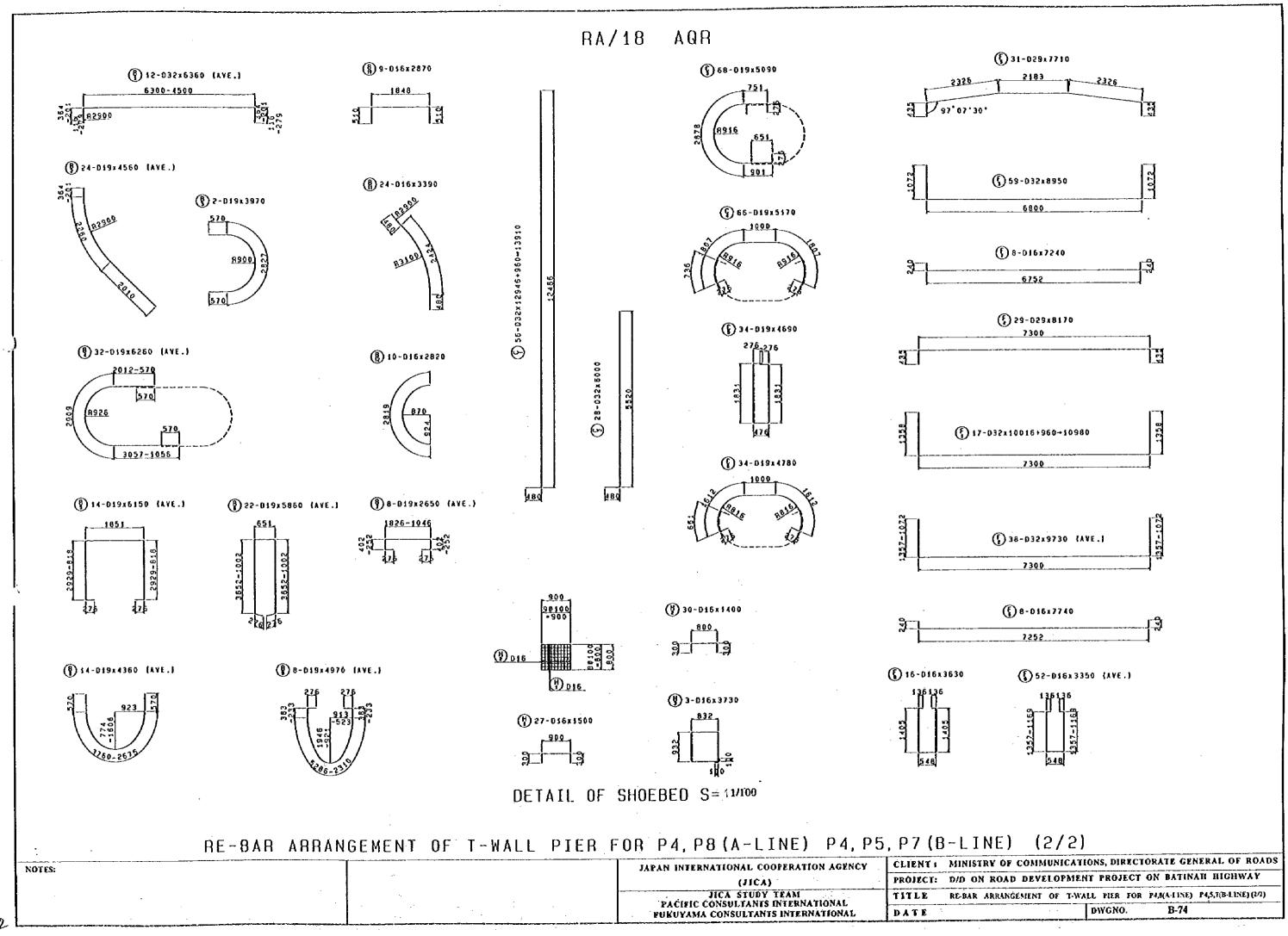
AD DEVEL	ÓPN	IENT PR	OJECI	ר סא	BATI	NAH	HIGHWAY
ANGEMENT	ÔF	T-WALL	PIER	FOR	P2,10	AT	A,8-LINE (1/1)
		DWG	NO.		B	71	





. •	A-L	INE	B-LINE
	P4	P8	P4, P5, P7
Нí	12800	15800	12800
нs	12881	12877	12719
НЭ	12719	12723	12861
H 4	463	459	301
Н 5	303	305	463
H 6	2404	2402	2328
h j	23B1	2377	2219
D 2	2219	2223	2383
h 3	304	305	559
i i	2.501	2.381	-2.50X

PANCEN	FNC OF TA	VALL PIER FOR	PARALINES PAR	76B-1 (NF) (1/2)
RÓAD D	EVELOPME	NT PROJECT	ON BATINAH	HIGHWAY
Y OF CO	MMUNICAT	tions, direct(	DRATE GENERA	L OF ROADS
<u>IE)</u>	(1/2			



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No.

State States

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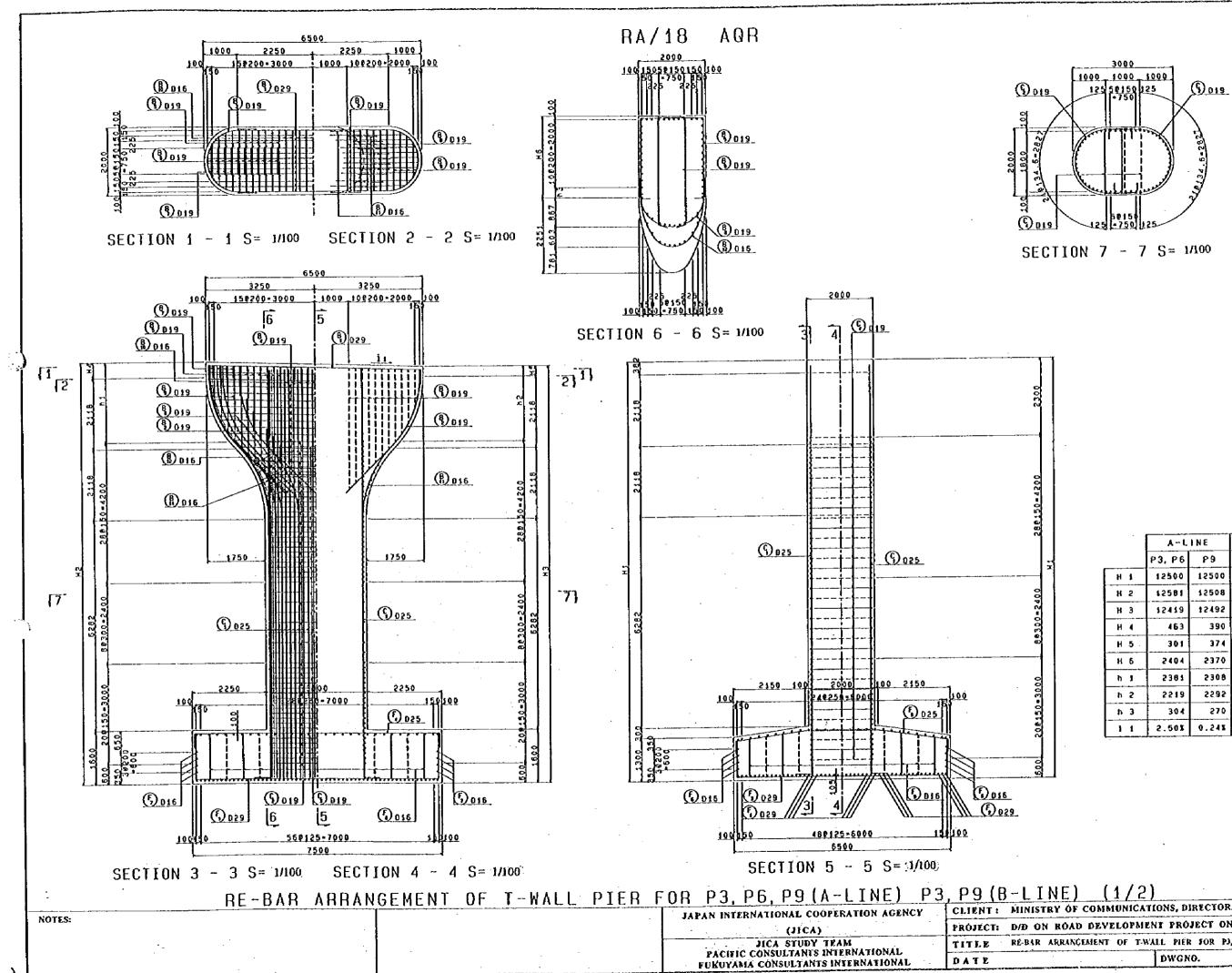
SPECIAL SECTION

**在10月月** 

States 1

1010

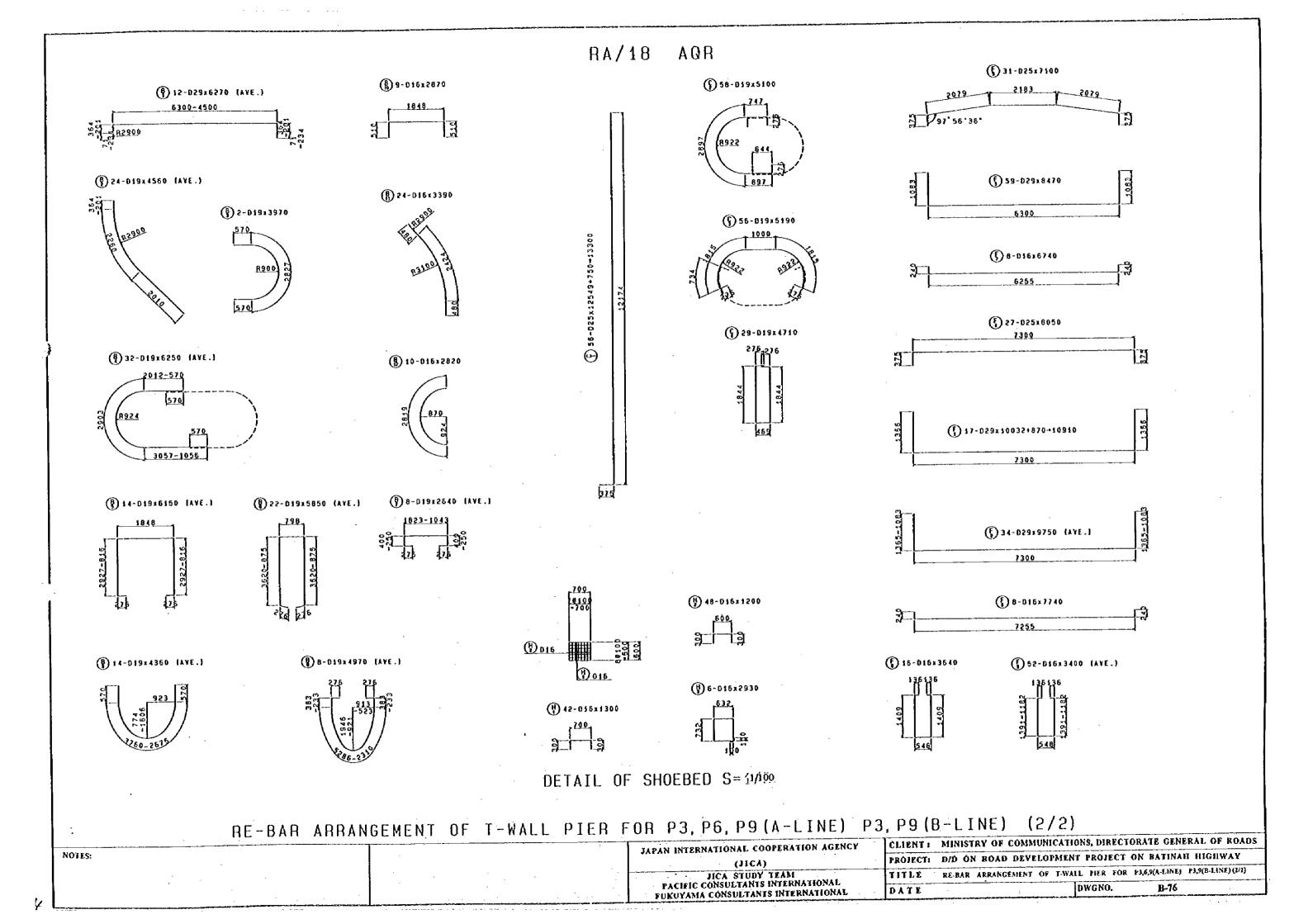
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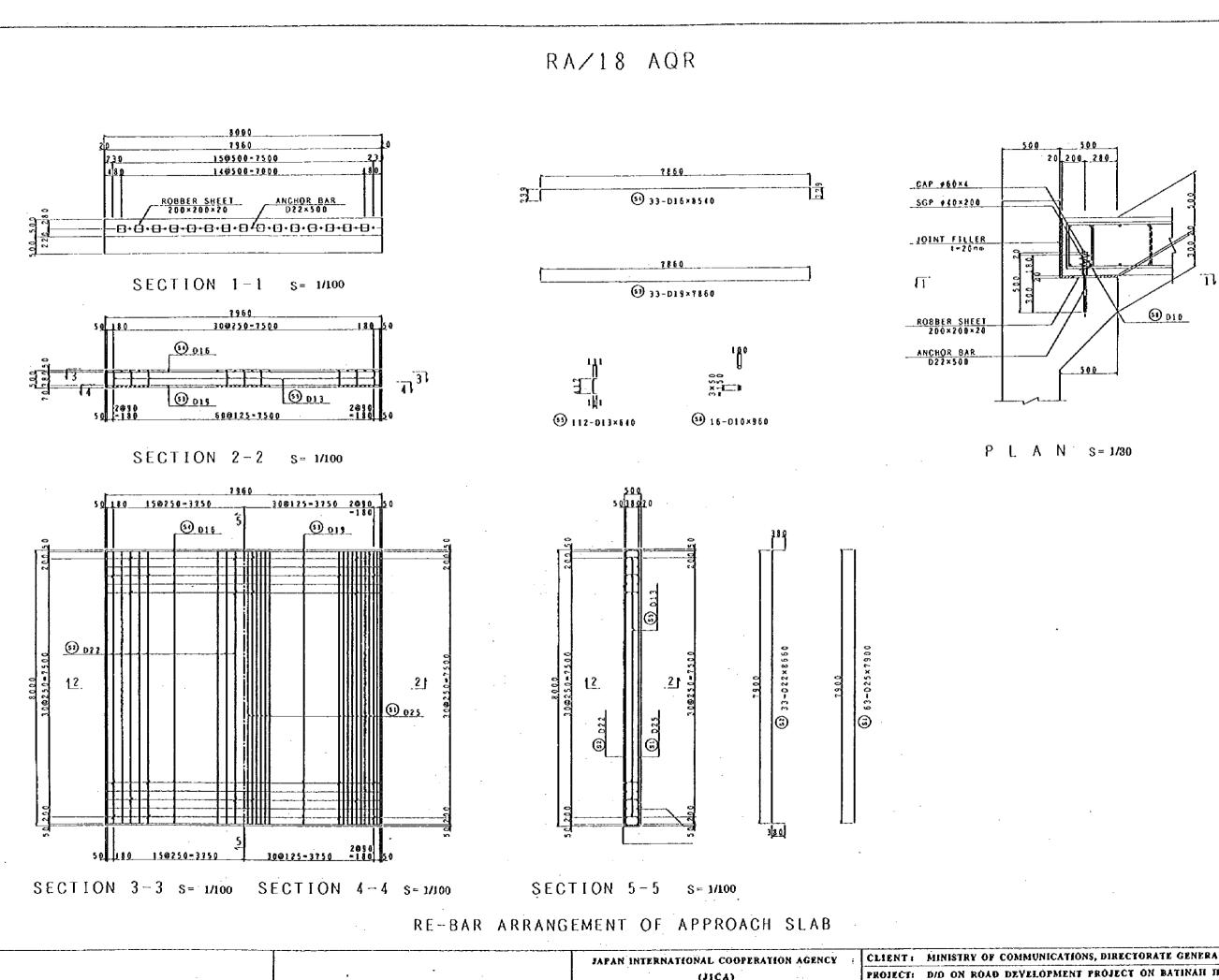


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	A-L	INE	B-LINE
	P3, P6	<b>P</b> 9	P3, P9
ны	12500	12500	12500
H 2	12581	12508	12419
нз	\$2459	12492	12581
H 4	463	390	303
H 5 -	301	374	463
нб	2404	2370	2328
h j	2385	2308	2219
h 2	2219	\$585	2381
ħ3	304	270	228
1 1	2.50X	0.24%	-2.50%

E)	(1/a)	2) ·		
			ORATE GEN	ERAL OF ROADS
OAD DE	EVELOPM	ENT PRÓJECT	ON BATINA	HIGHWAY
RANÇEME	NT OF T	WALL PIER FOR	P3,6,9(A-LINE)	PJ,9(8-LINE) (1/1)
	· • · · · · · · · · · · · · · · · · · ·	DWGNO.	B-75	





This drawing shows one approach slab. This is applied for all 6 abutments. So the total number of approach slabs are 4.

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05

NOTES:

(JIČA) JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL TITLE DATE

ATIONS, DIRECTO	RATE GENERAL OF ROADS
IENT PROJECT (	N BATINAN HIGHWAY
MENT OF APPR	OACH SLAB
DWGNO.	B-77
	MENT PROJECT ( EMENT OF APPR

# BAR BENDING DIAGRAM

LAP JOINT LENGTH

¢		LAP JOINT LENGTH
013	390	
D16	480	
019	570	r=-1
022	660	
025	150	
029	110	
D32	960	

	IAE	PAN	OMAN		
	CROSS- SECTIONAL ARER (cm*)	NOMIMAL WEIGHT (Le/m)	CRDSS- SECTIONAL ARER (cm*)	NOMINAL WEIGHT (Le/m)	
013	1.267	0,995	1.290	0.994	
015	1.986	1.56	2.000	1.552	
019	2.865	2.25	2.839	2,235	
022	3.871	3.04	3.871	3.012	
D25	5.067	3.98	5.097	3.973	
025	5.424	5.04	6-452	5.059	
032	7.942	6.23	8.194	6.103	

### BENDING DIMENSION (MAIN REINFORCEMENT)

* #	8≤90° R=3¢	(r)>90° R=5.5≠	HOOX LENGTH
013		11.5	
016	48.	88	
D19	51_	104.5	₩ K I I I I I I I I I I I I I I I I I I
D22	66	1.121	
025	75	137.5	<u> </u>
029	81_	159.5	~
032	96	178	R==+#/2

### BENDIN DIMENSION (STIRRUP, ERECTION BAR)

ø	R=2.5#	ô≈90°	8=45'	-		
		1		STERRUP	ERECTION BAR	HOOP
013 016 019 022	32.5 40 47.5 55	51 63 75 86	77 94 112 130	v = v = 2.00 v = 2 v	5 5 5 1-2,0¢ → → + + + + /2 N R=(+++/2	R=++#/2

- -			· · · · · · · · · · · · · · · · · · ·	
NOTES:	······································	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT : MINISTRY OF COMMUNICATIONS, DIRECTORA	TE GENERAL OF ROADS
		(ADIK)	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON	BATINAH HIGHWAY
·		JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL	TITLE BAR BENDING DIAGRAM	
		FUKUYAMA CONSULTANTS INTERNATIONAL	DATE DWGNO.	B-78
┍┷╈ <u>┲┙┲╴┲╴┲</u> ┲┲╪┱┟╗╋┶┲┲╈┶┲╪┙┇┲┲╈╱┲╈ <mark>┲╞╶┲╌┲╴┲╌┲╴┲╌┲╴┲</mark> ╌┲┲╌┲ <sup>┲</sup> ┲┲┲ ┍┷	<u>,</u> ₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	ĸŧĦĨĸĸĨĸŧſſĸſĿĿġĸŊġĸĸĸĸĸĸĸĸĸĊĊĔĨĬĬĬŦġĸĸĬĬġĊſŢġĸĸĊĸĊĊĔĬĸĸĔĸĊŔĬŔĸŧĬĔĹŢġĸġĬſĸĊŎĊĸĬĊĬĊŎĬĬŎĸŎĿŎĸĊĬŎĸĊĬŎĸĸŎĬŎĸĊŎŎĸŎŎ ŧ		-