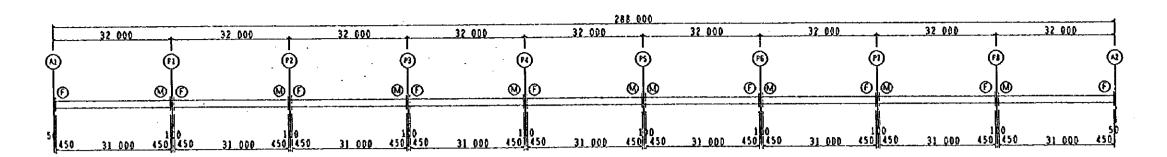
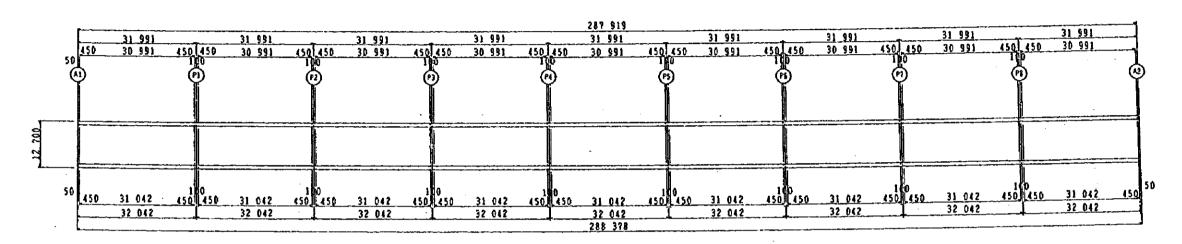
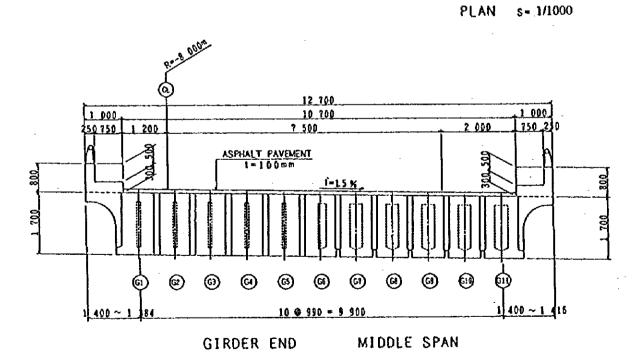
RA/2 A'NASEEM GARDEN



PROFILE OF BRIDGE (AT CL) S= 1/1000





12 700 1 000 10 700 30 750 31 200

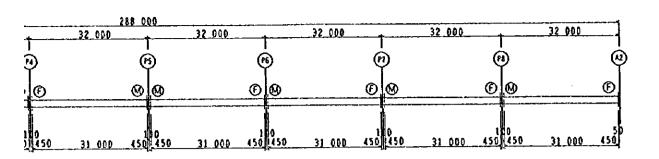
		UI
	LO	31 899
@~@{	Ll	30 999
(P)~(2)	L2	3 874
	θ	0.1145
0	LO	31 891
(P) ~ (P)	Li	30 99
@~@[L2	3 874
	θ	01145
0 0	LO	31 89
(0 ~ (1) (6) ~ (1)	Li	30 99
(f)~(g)	L2	3 873
	θ	0.1145
	LO	31 89
@~@	L1	30 99
(6) ~ (6)	L2	3 873
	₿	01145
@~®	LO	31 89
	L1	30 99
	L2	3 873
<u> </u>	θ	01145

SECTION s= 1/100

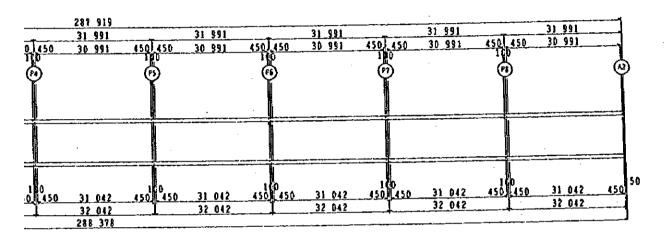
GENERAL VIEW OF BRIDGE AT B-LINE

NOTES:	1	JAPAN INTERNATIO
		JICA
		PACIFIC CONSUI

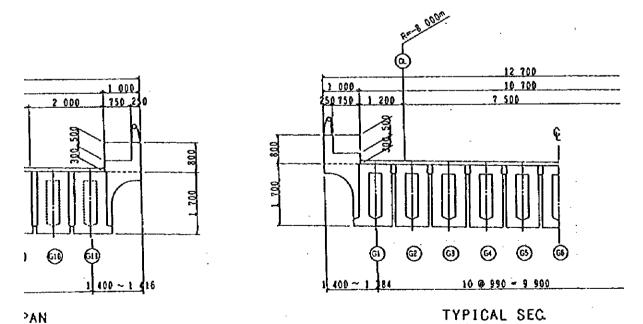
RA/2 A' NASEEM GARDEN



= BRIDGE (AT CL) S= 1/1000



PLAN s= 1/1000



SECTION s=: 1/100

GENERAL VIEW OF BRIDGE AT B-LINE

50	GIRDER LENG SPAN LENGI			
L2	6 @ 3 875	= 23 250		L2
\prod				İ
			•	
				
		1		
1				<u> </u>

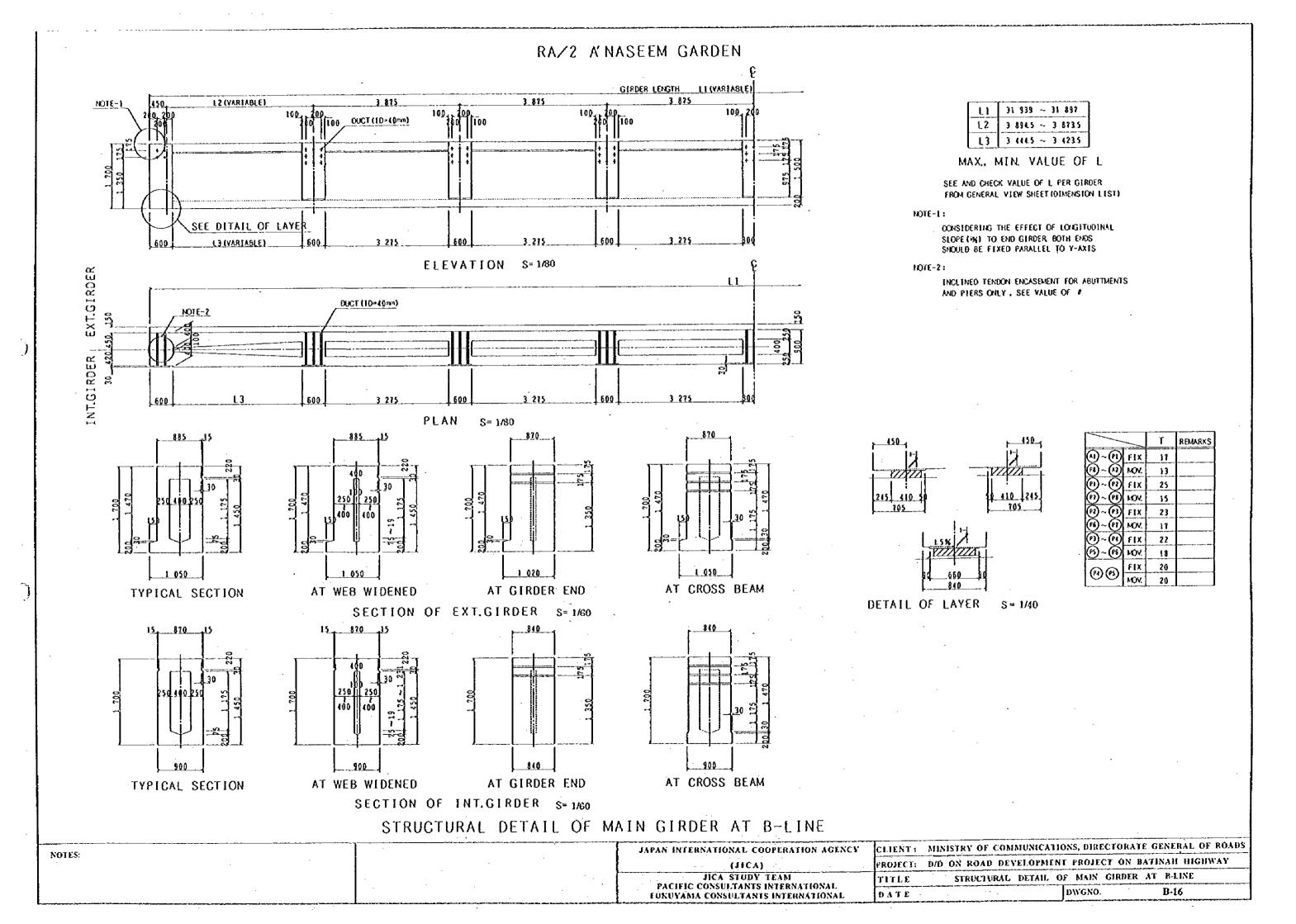
R=-8 000m(AT CL)

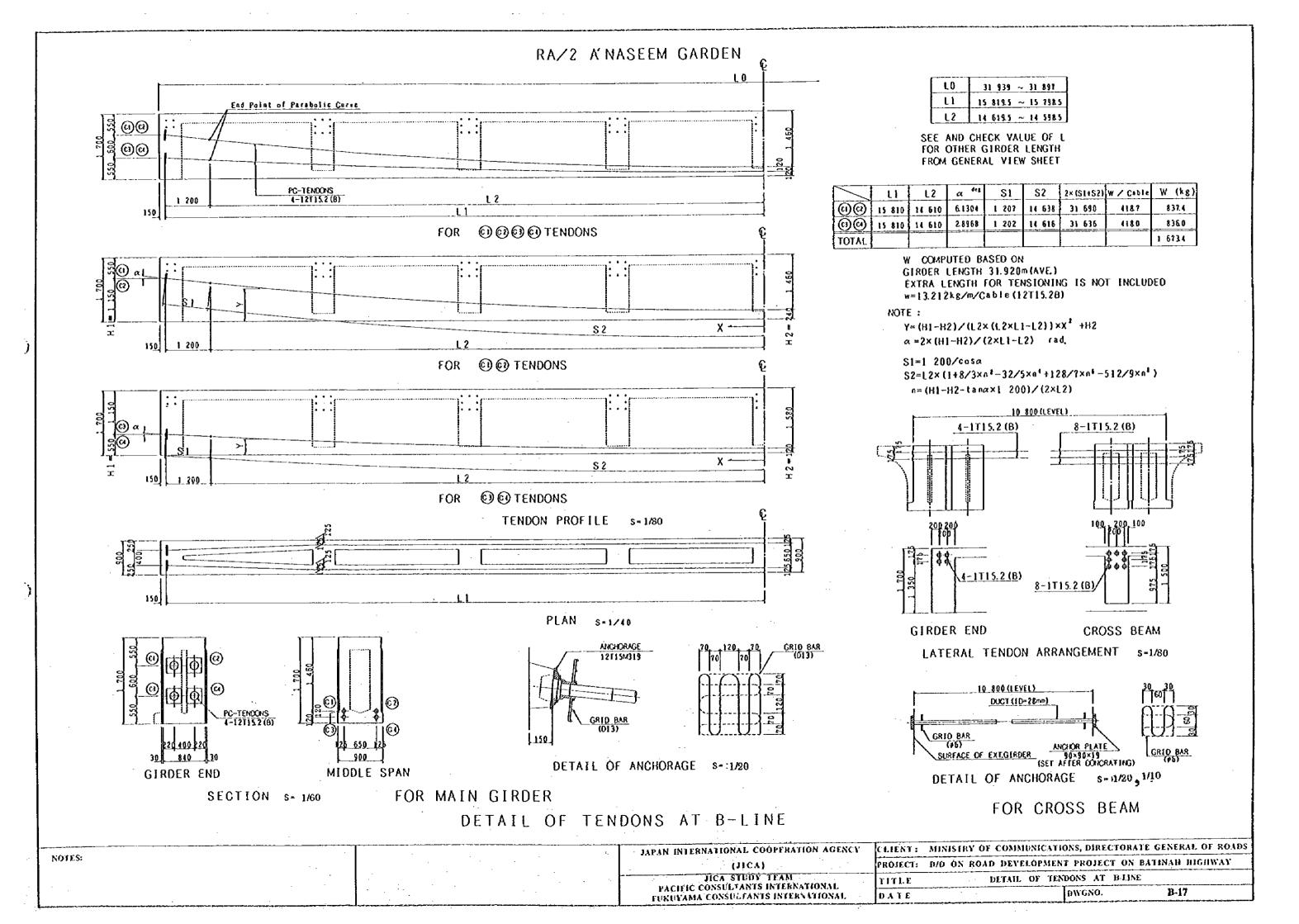
GIRDER LENGTH

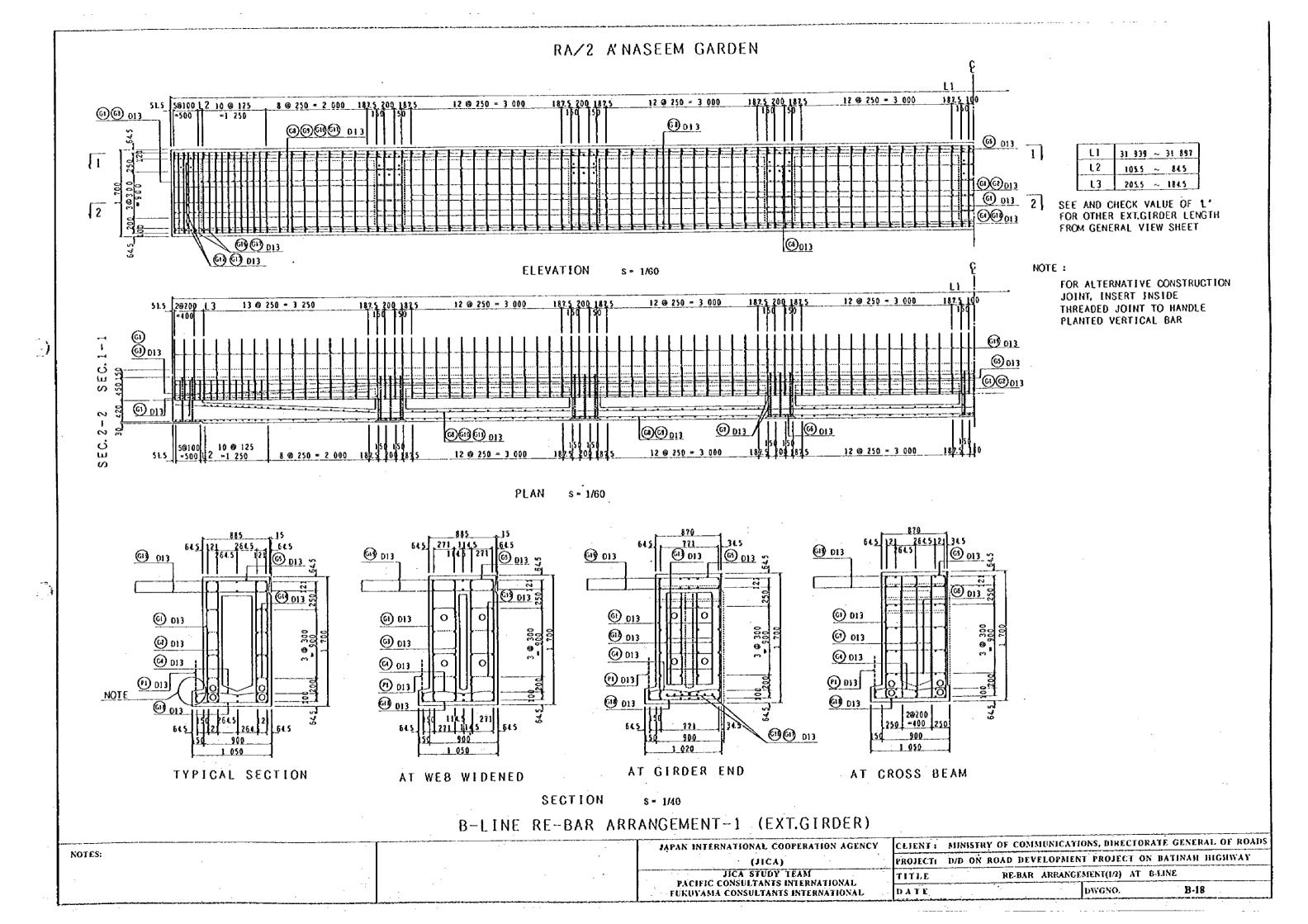
		G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	REMARKS
	LO	31 899	31 903	31 907	31 911	31 915	31 919	31 923	31 927	31 931	31 935	31 939	INCLINED LENGTH
(W~(D)	LI	30 999	31 003	31 007	31 611	31 015	31 019	31 023	31 027	31 031	31 935	31 039	
m~@[L2	3 8745	3 8765	3 8785	3 880.5	3 8825	3 8845	3 886.5	3 888.5	3 2905	3 8925	3 894.5	
1	θ	0.11458	0 11458	011458	011458	0.11458	0.11458	0 11458	011458	0.11458	Q1145B	0.11458	4561768A
	LO	31 898	31 902	31 908	31 910	31 914	31 912	31 922	31 926	31 930	31 934	31 938	INCLINED LENGTH
(m)~(m)	L1	30 998	31 002	31 006	31 010	31 814	31 018	31 022	31 026	31 030	31 034	31 038	
@~@	L2	3 8745	3 8760	3 878.0	3 880.0	3 8820	3 8840	3 885.0	3 888.0	3 8900	3 8920	3 894.0	
	ð	0.11458	011458	0.12458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	0.11458	011458	THE INCO
	LO	31 897	31 901	31 905	31 909	31 913	31 917	31 921	31 925	31 929	31 933	31 937	INGLINED LENGTH
(@~@)	Li	30 997	31 001	31 005	31 009	31 013	31 017	31 021	31 025	31 029	31 033	31 037	<u> </u>
(6)~(9)	L2	3 8735	3 877.5	3 877.5	3 878.5	3 8815	3 8835	3 885.5	3 887.5	3 8895	3 891.5	3 8935	
	ð	0.11458	0.11458	0.11458	011458	011458	0.11458	0.11458	0.11458	0.11458	0.11458	011458	TUCKTER
	LO	31 897	31 901	31 905	31 909	31 913	31 917	31 921	31 925	31 929	31 933	31 937	LENGTH
(6) ~ (b)	L1	30 997	31 001	31 005	31 009	31 013	31 017	31 021	31 025	31 029	31 033	31 037	
®~®	L2	3 8735	3 877.5	3 877.5	3 879.5	3 8815	3 8835	3 885.5	3 887.5	3 889.5		3 8935	<u> </u>
	ð	0.11458	011458	011458	0.11458	011458	0.11458	0.11458	011458	0.11458	0.11458	011458	10017026
	LO	31 897	31 901	31 905	31 909	31 913	31 917	31 921	31 925	31 929	31 933	31 937	INCLINED LENGTH
(A)~(B)	LI	30 997	31 001	31 005	31 009	31 013	31 017	31 021	31 025	31 029	31 033	31 037	 '
	L2	3 8735	3 817.5	3 877.5	3 819.5	3 8815	3 8835	3 885.5	3 887.5	3 889.5	3 8915	3 8935	<u> </u>
L	θ	0.11458	0.11458	011458	0.11458	0.11458	0.1145B	011458	0.11458	0.11458	0.11458	011458	<u> </u>

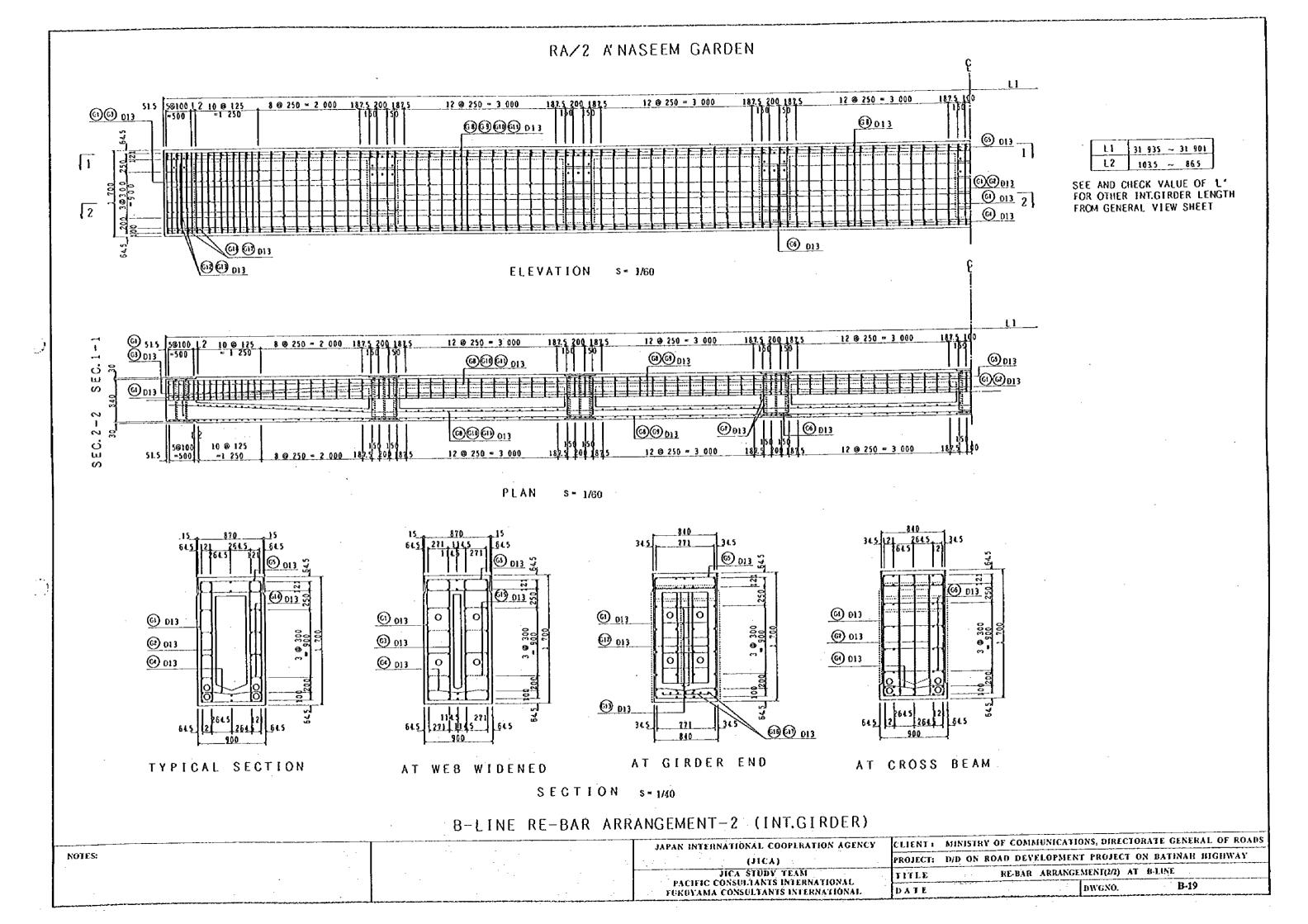
DIMENSION LIST FOR B-LINE

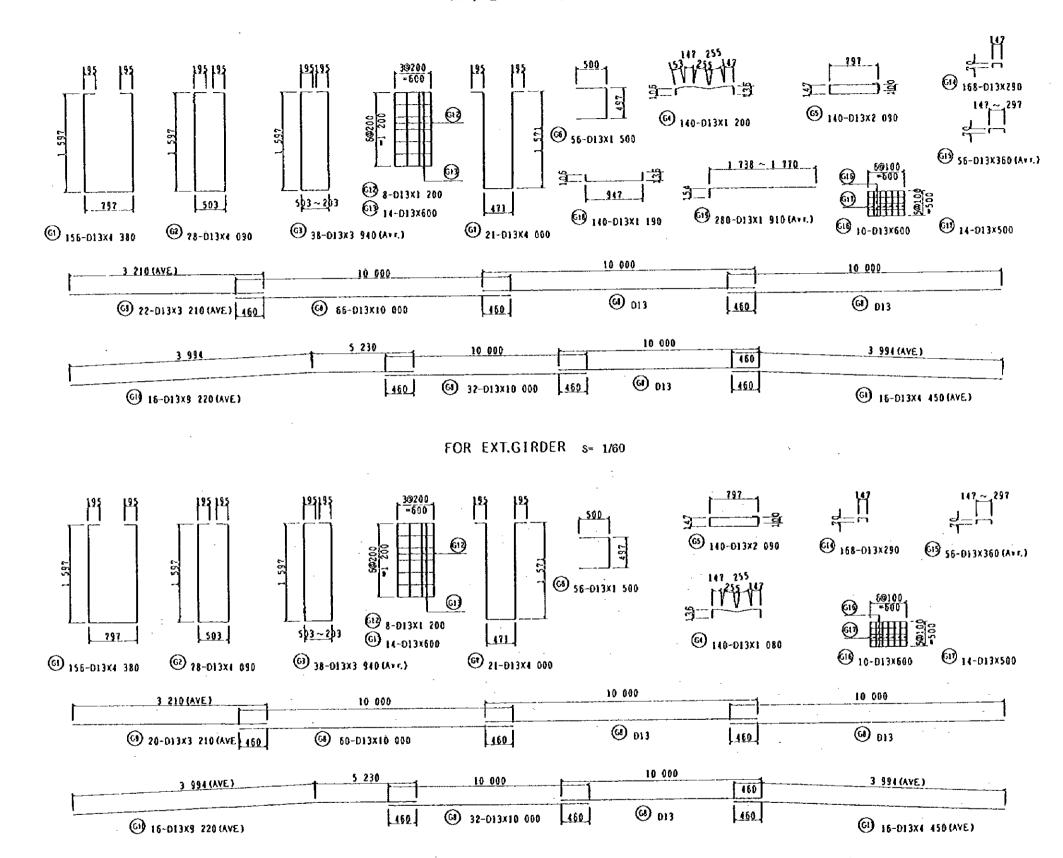
	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT:	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
ļ	(JICA)	PROJECT:	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
	JICA STUDY TEAM	TITLE	GENERAL VIEW OF BRIDGE AT B-LINE
İ	PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	DATE	pwgno. B-15









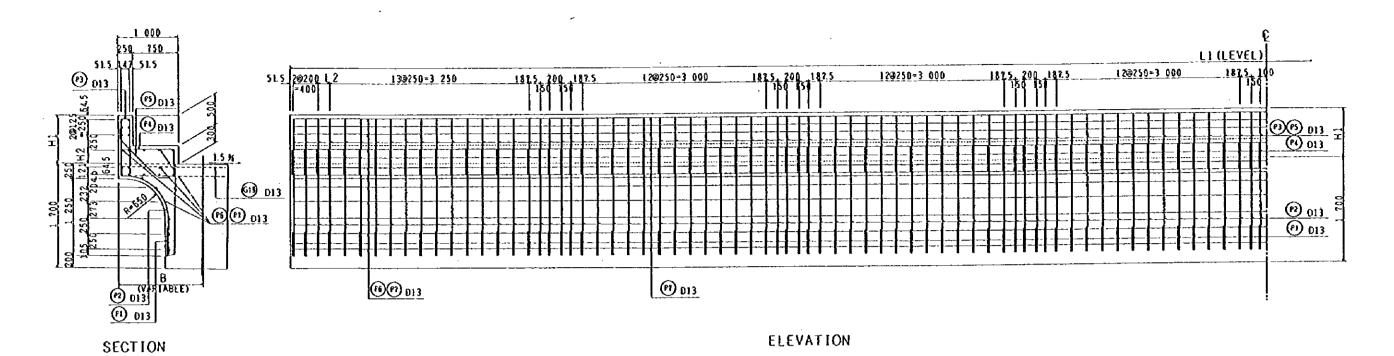


FOR INT.GIRDER s- 1/60

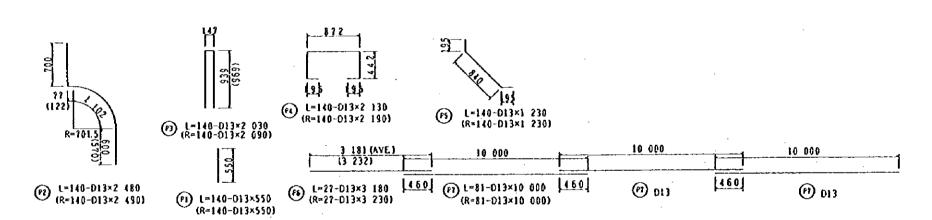
BAR SCHEDULE OF MAIN GIRDER AT B-LINE

- 1		
- 1		JAPAN INTERNATIONAL COOPERATION AGENCY CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
l	NOTES:	(JICA) PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINALI HIGHWAY
-		JICA STUDY TEAM TITLE BAR SCHEDULE OF MAIN GIRDER AT B-LINE
		PACIFIC CONSULTANTS INTERNATIONAL DWGNO. B-20
1		

RA/2 KNASEEM GARDEN



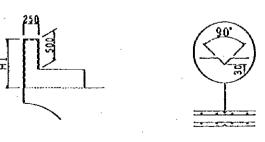




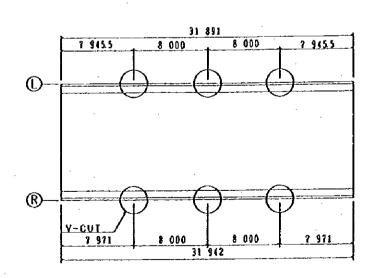
_		(4) ~ (4)	REMARKS
	LI	31 891	LEVEL
Ì	L2	1815	LEVEL
\sim	В	1 400 ~ 1 384	VARTABLE
O	H1	785	L
	H2	220.5	
	Li	31 942	LEYEL
	L2	207.0	LEYEL
(R)	В	1 400 ~ 1 415	VARIABLE
W,	HI	815	·
	H2	250.5	<u></u>
			<u> </u>

DIMENSION LIST



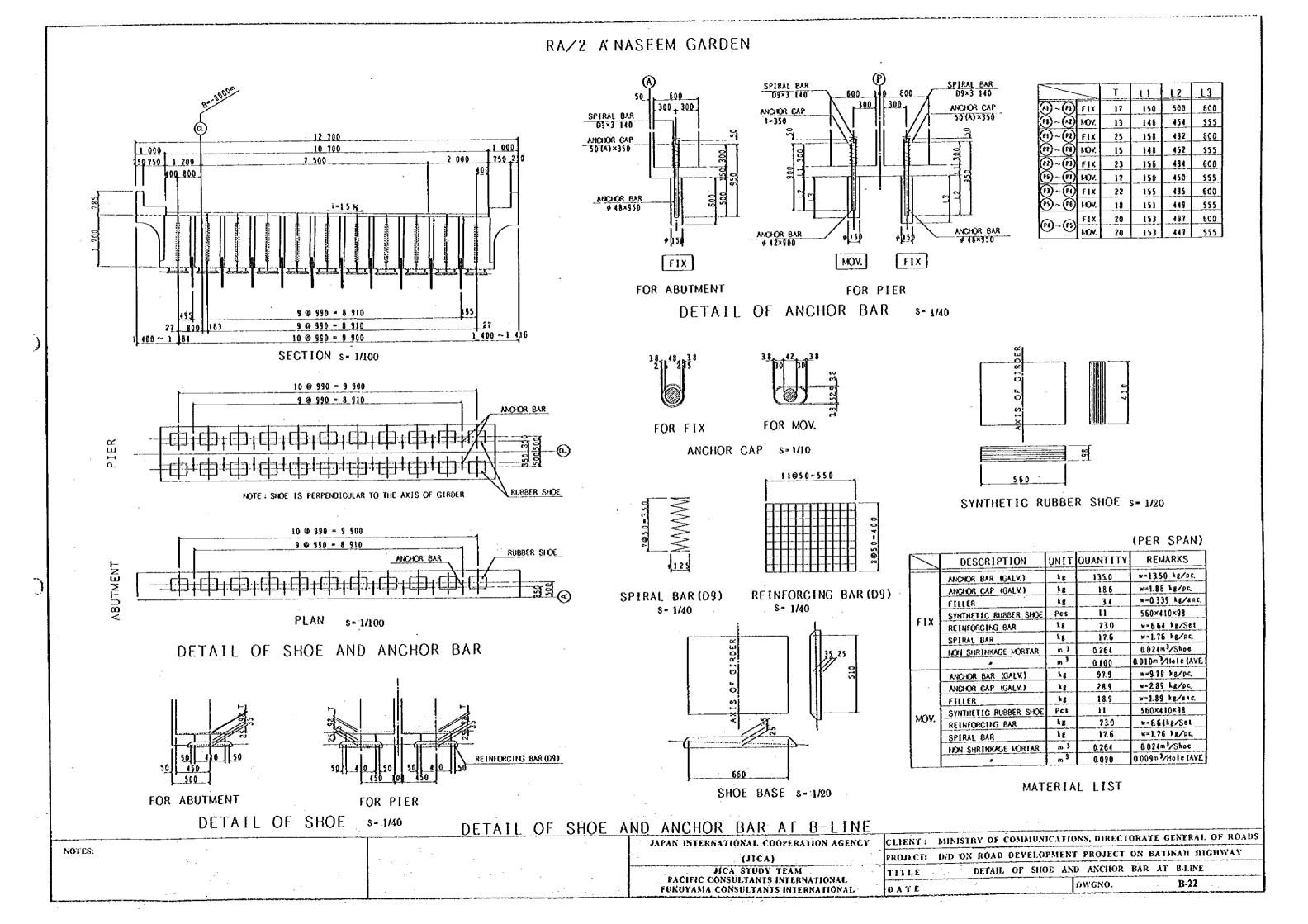


DETAIL OF V-CUT s- 1/60

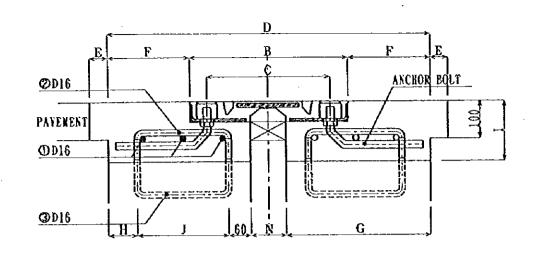


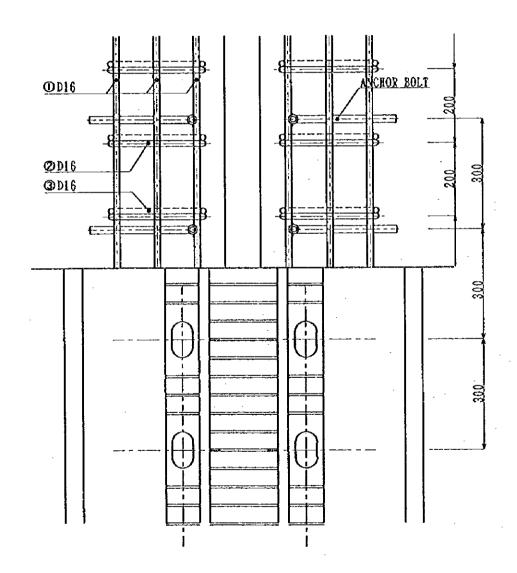
RAILING AND CANTILEVER SLAB AT B-LINE

- 1			0.00
ď		JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
1	NOTES:		PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		JICA STUDY TEAM	TITLE RAILING AND CANTILEVER SLAB AT B-LINE
ł		PACIFIC CONSULTANTS INTERNATIONAL FURUYAMA CONSULTANTS INTERNATIONAL	DATE DWGNO. B-21
١.		 	



A'NASEEM GARDEN





NOTES:

MEASURE DATA

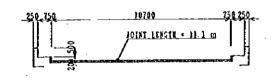
	A	В	С	D	E	F	G	Н	I	J	STANDARD SPACE DETUTER SLAPS N	
PIER	54	433	340	879	50	223	390	80	160	250	100	80
ABUT	40	303	235	709	50	203	330	70	150	200	50	50

MATERIAL LIST (PER 10 m)

NATERIAL	CLASSIFICATION	UNIT	PIER	ABUT
TRANSFLEX JOINT	INCLUDING ANCHORBOLT	m	10.0	10.0
	FOR JOINT SEALS	k g	22. 5	16.0
SEALANT	FOR PLUG HOLE	k g	8. 5	4.0
	①D16	kg	93. 60	93. 60
REINFORCING BAR	② D 1 6	kg	60. 84	53. 04
RECESS CONCRETE	HIGH-EARLY STRENGTH CONCRETE	m³	1. 143	0.964
COLORING AGENT OF THE FACE	3 kg/m³	k g	16. 0	15.0
POLYURETHANE FORM		m	10.0	10.0
TRANSIENT FILLING WATERIAL	SAND	IU ₃	0.66	0. 53
	ASPHALT CONCRETE	m¹	0.73	0.60

QUANTITY LIST

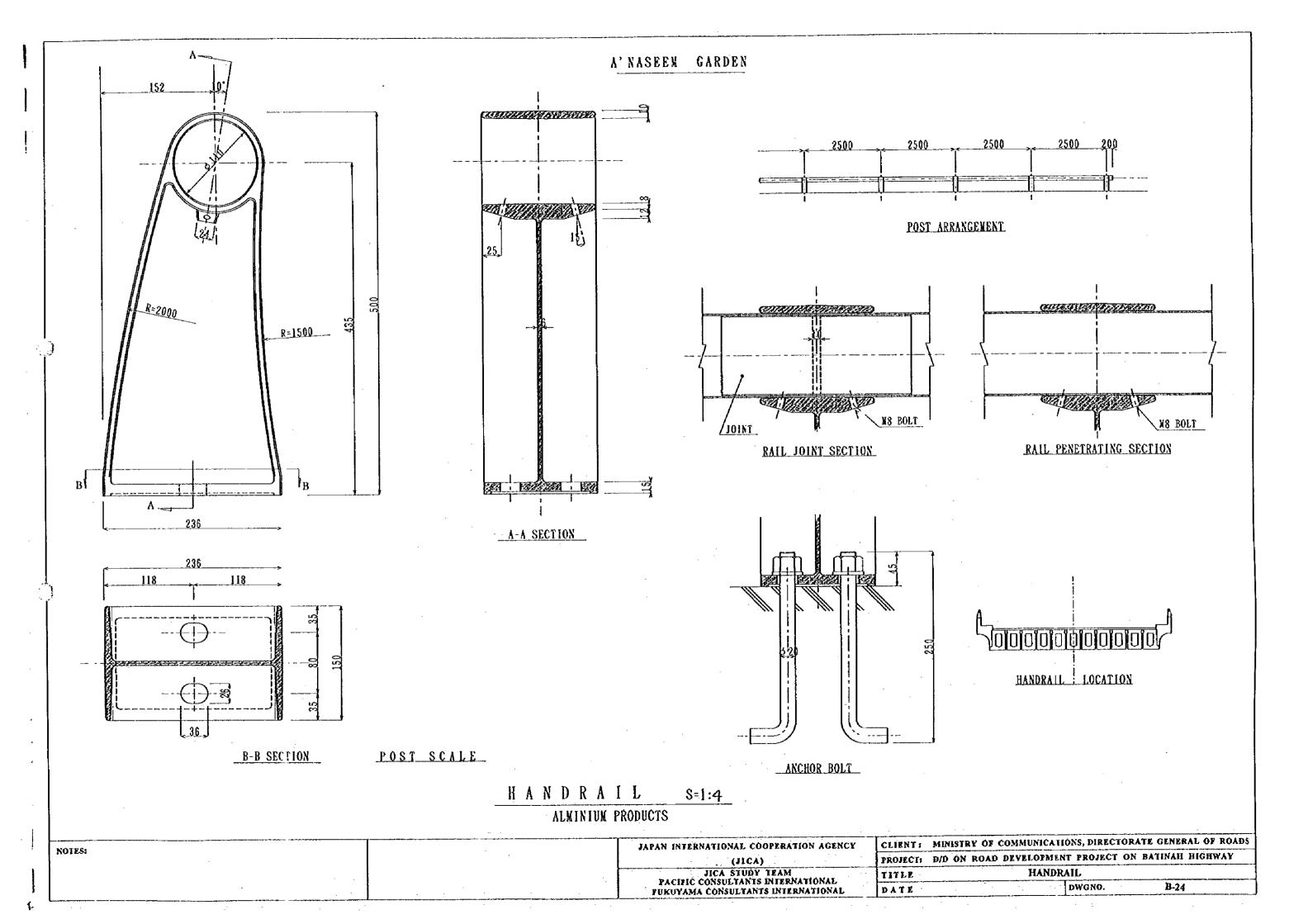
	PIER	ABUTNENT		
AL KHABURAHN	1 6	4		
TOTAL LENGTH	177. 6	44. 4		



JOINT LENGTH PER 1 PLACE

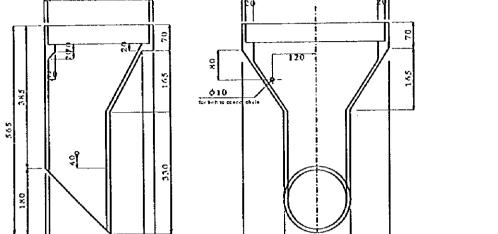
TRANSFLEX JOINT S= 1/10

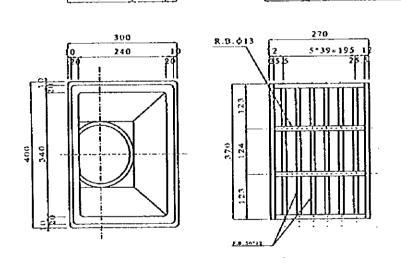
	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	(JIĆA)	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
	JICA STUDY TEAM	TITLE EXPANSION JOINT
-	PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	DATE DWGNO. B-23

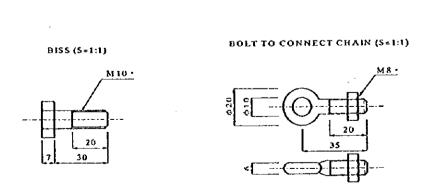


(A'NASEEM GARDEN FLYOVER)

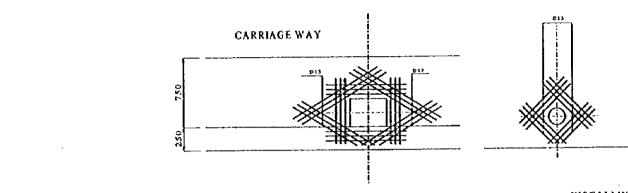
BRIDGE DRAINAGE DETAILS CATCH BASIN (S=1:5)



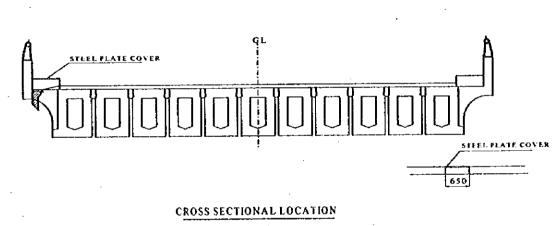


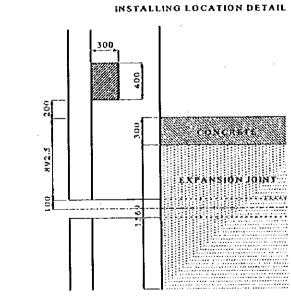


NOTES:

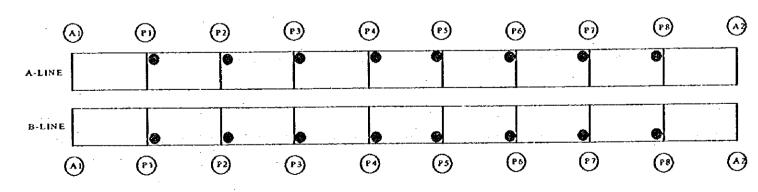


REINFORCING (\$=1:20)



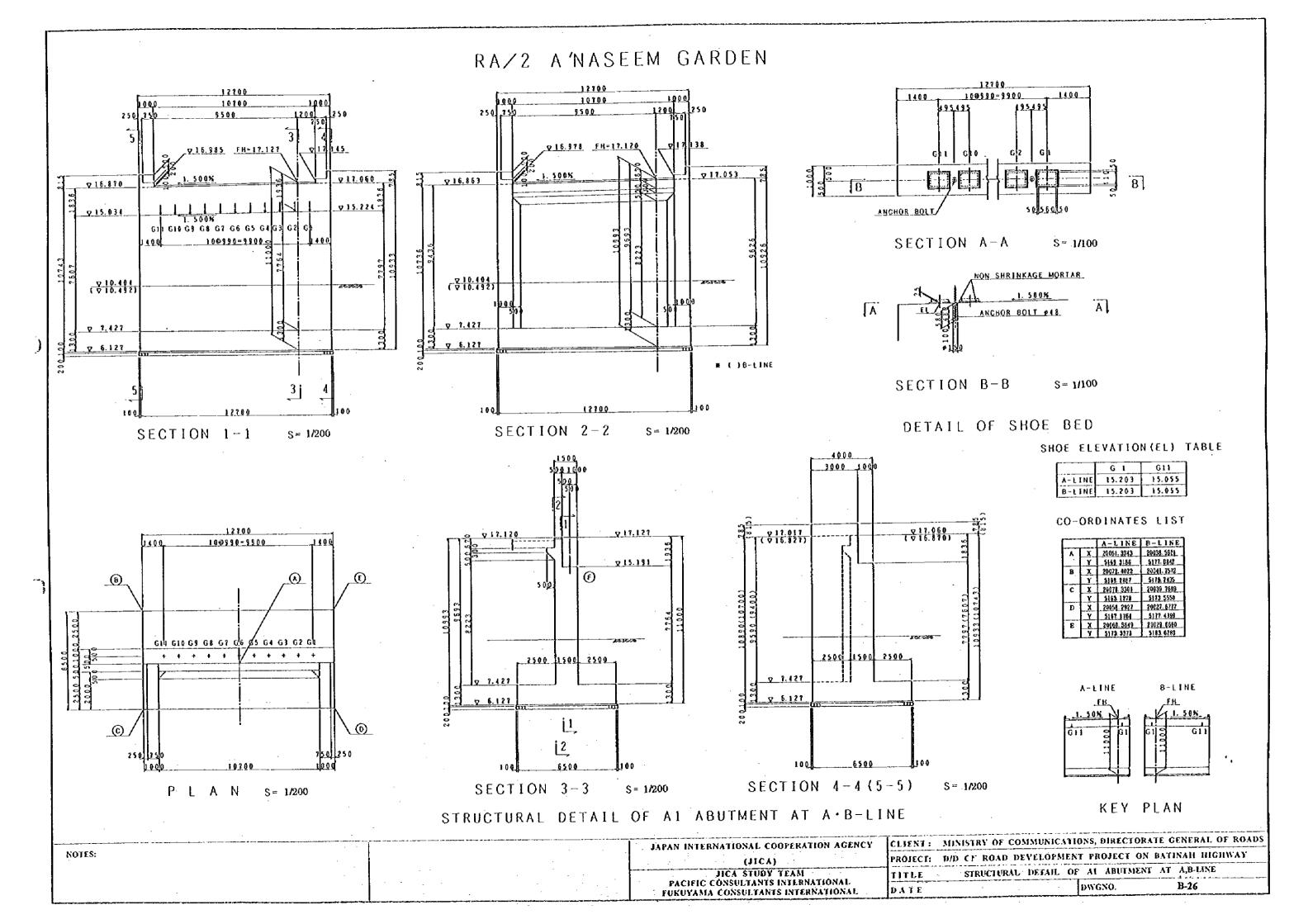


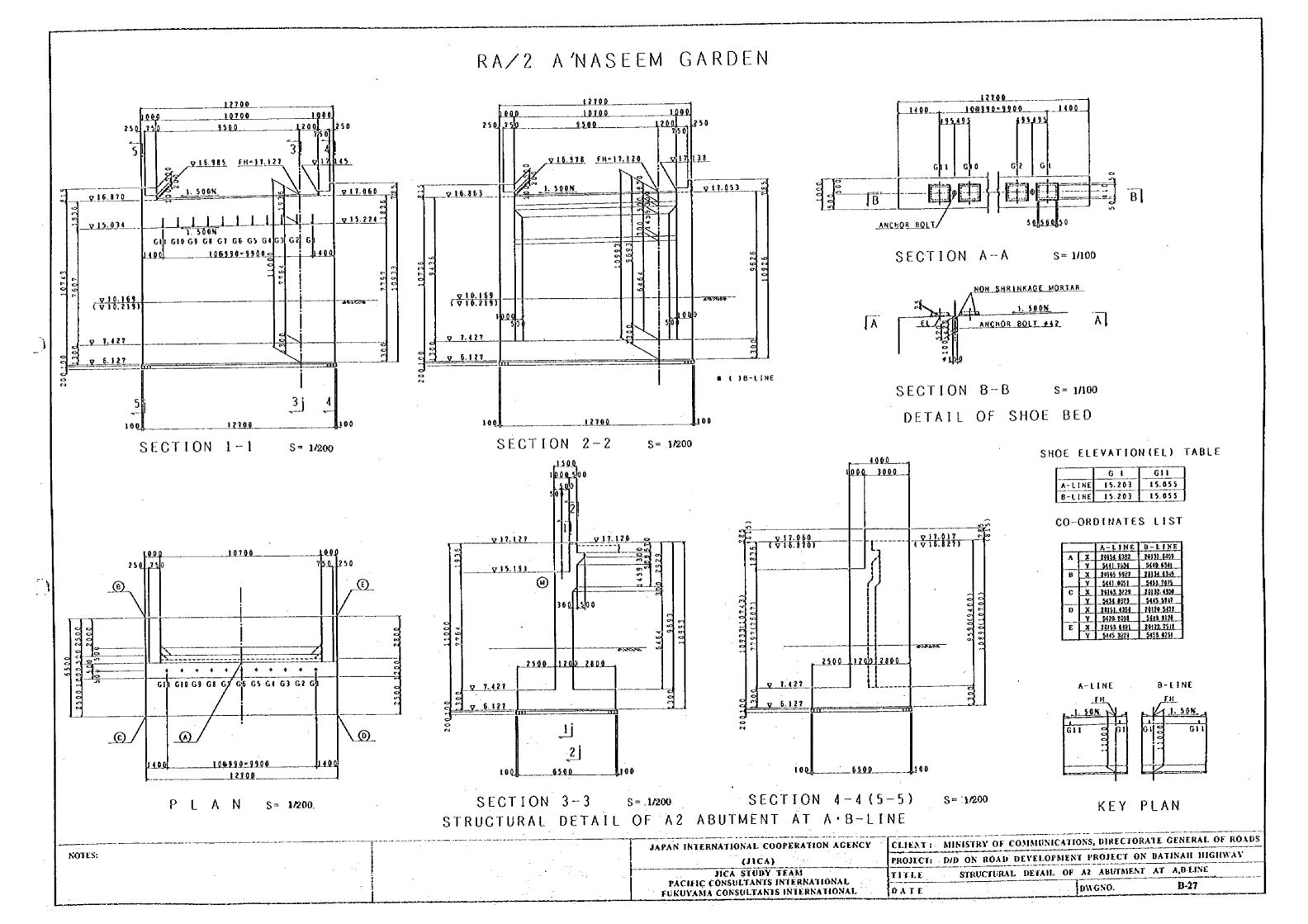
INATALLING LOCATIONS



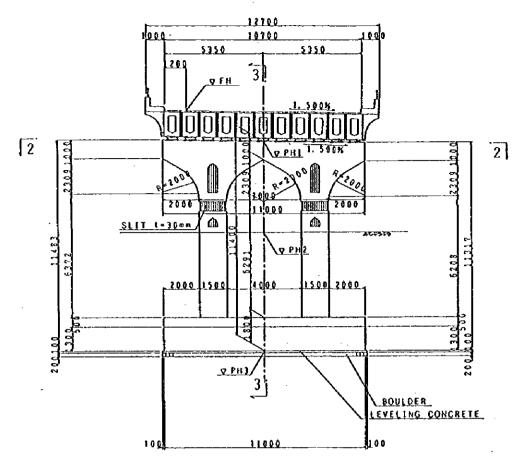
(JICA) IICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

JAPAN INTERNATIONAL COOPERATION AGENCY | CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS PROJECT: D/O ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY BRIDGE DRAINEGE DETAILS (A'NASEEM GARDEN) DWG.NO. DATE

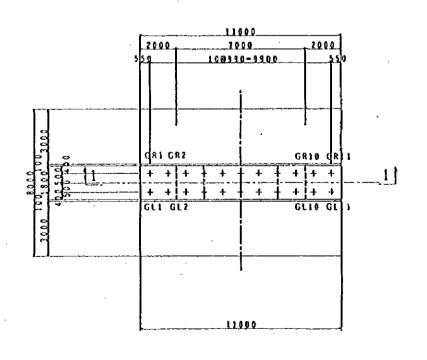




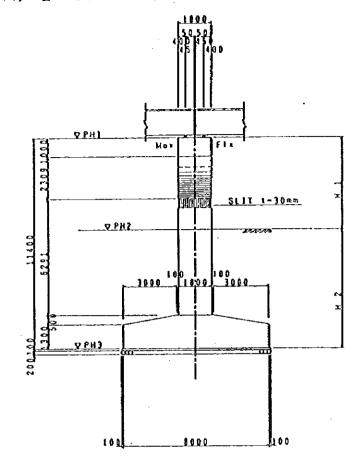
RA/2 A'NASEEM GARDEN



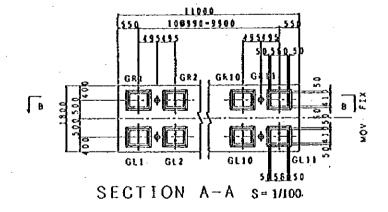
SECTION 1-1

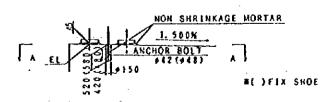


SECTION 2-2 S = 1/200



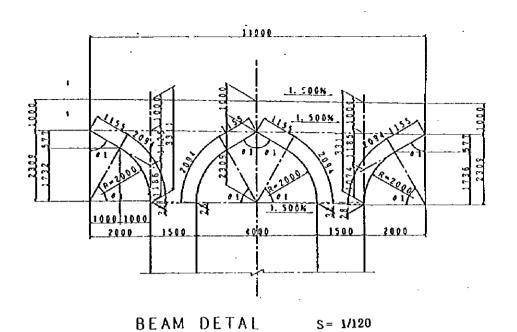
SECTION 3-3 S = 1/200





SECTION B-B S= 11/100

DETAIL OF SHOE BED

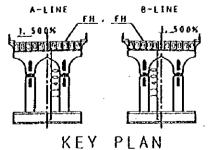


DIMENSION TABLE

		PH1	PH2	PH3	н 1	н 2
	PI	15.522	10.377	4,122	5.145	8.255
	P 2	15.825	10.349	4.429	5.480	5.920
	P 3	16.034	10.360	4.634	5.734	5.656
1:	P (16.136	11.000	4.736	5.136	5.254
ì	P 5	16.136	11.100	4.136	5.036	8.364
N	P 6	16.034	10.360	1.534	5.734	5.666
1	P 1	15.823	10.244	4,429	5.585	5.815
	P 8	15.522	10.207	4.122	5.315	6.085
Γ-	P 1	15.522	10.472	4.122	5.050	8.350
1	P 2	15.829	10.45Z	4.429	5.317	6.023
В	P 3	16.034	10.500	4.634	5.534	5.866
1:	P 4	16.136	10.700	4.736	5.436	5.964
Į į	ρ.5	16.136	10.300	4.736	5.236	6.154
N E	P 6	16.034	10.150	4.634	5,884	5.516
	ΡÌ	15.825	10.302	4.429	5,527	5.873
	P 8	15.522	10.260	4.122	1.262	8.138

SHOE ELEVATION(EL) TABLE

	GILIGIRI	6111 (611
<i>P</i> 1	15.595	15.448
P 2	15.903	15.155
P 3	15.108	15.960
P 4	16.210	16.062
P 5	16.210	16.052
8 8	16.108	15.960
P 1	15.903	15.755
P 8	15.598	15.448



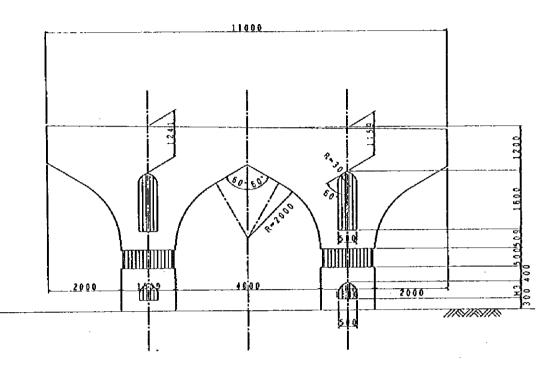
STRUCTURAL DETAIL OF TWO-COLUMN PIER FOR PI~P8 AT A·B-LINE (1/2)

JICA STUDY YEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL

JAPAN INTERNATIONAL COOPERATION AGENCY | CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY TITLE STRUCTURAL DETAIL OF TWO-COLUMN PIER(PI~PS) AT A,B-LINE (III)

NOTES:

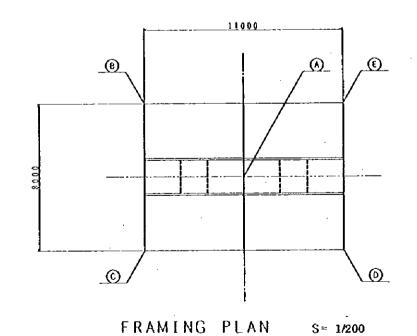
RA/2 A'NASEEM GARDEN



DIMENSION (H3) TABLE

	A-LINE	8-LINE
P 1	638	541
P 2	971	868
P 3	1225	1025
P 4	627	927
P 5	527	127
P 6	1225	1375
P 7	1076	1018
P 8	806	753

SLIT OF PLAN S= 1/100



CO-ORDINATES LIST

			A	В	C	D
	Pi	X	20071.4749	20081. 8936	20079 3737	20068 9135
		Ÿ	5199.6693	5200. 4260	5192 8332	5196.2982
	n	x	2008), 5052	20091. 9227	20689. 4147	20078 9692
		Ÿ	\$230.0567	5230 8297	5223. 2330	\$225, 6816
Λ	P3	x	20091.5980	20102 0185	20099. 4802	20089 D486
·		Ÿ	5260. 4233	5261-1547	5253, 558)	5257 0584
- 1	P4	x	20101-8122	29112. 2356	20109. 6669	20099 2493
L	1"	Y	5290 7494	\$201.4391	5283 8627	5267. 8947
ī	P5	x	20112 1476	20122 5737	20119 8747	20109.5714
N	٠.	Y	5321.0343	5321-6823	5314.1163	5317.6899
E	96	χ	20122 6041	20133-0327	20130 4034	20120 0145
	'	Ÿ	\$351, 2777	5351, 8840	5344 9284	5347. 8436
	92	X	20133. 1815	20143 6124	20140 9529	20)30 5785
		Υ	5381. 4790	5392.0435	5374. 4985	\$378 1552
	PB	X	20143. 8795	20154 3126	20151.6290	20141 2633
	11	Ÿ	5411.6377	5412 1605	5404 6268	5408 3244
-	Pi	İΫ́	20043 4416	23050 9640	20048-4864	20038 0273
	'	Ÿ	5207.5306	5210. 8159	5203. 3092	5268. 1159
	P2	x	20058 4129	20060 0488	20058-4468	20047. 9954
		Ÿ	5237. 8374	5241 3125	5283 7158	5837. [644
В	3 P3	X	20068 5057	20071-0551	20068 5168	20058 0 852
		Y	5260. 3041	5271. 669Q	5264 0824	5267. \$727
	74	X	20078 7199	20081-2628	23076 7141	20668 2965
L	l. 1	Ÿ	5288 630L	5301- 9348	5294. 4084	\$297.5406
Ī	85	X	20089-0553	20091.6316	20089 0326	20078 8293
N		Ŷ	5328 9151	5332 2595	5324. 6934	5328 2671
E	F6	X	20099 5113	20:02 1014	20099 4722	20089 G832
_	1	Y	5359 1584	5362 4925	5354 9369	5358-5521
	n	x	20110 0852	20112 1921	20119. 6327	20099 6583
		Y	5389.3597	5392 6334	\$385, 1584	5398, 7951
	P8	X	20120 7073	20123 4035	20120.7139	20110-3542
ŀ	1	ΙŸ	5418.5184	5422 8311	5415. 2974	5411.6951

STRUCTURAL DETAIL OF TWO-COLUMN PIER FOR PI~P8 AT A·B-LINE (2/2)

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY

(J1CA)

PROJECT: D/D

JICA STUDY TEAM

TITLE STRUCT

JAPAN INTERNATIONAL COOPERATION AGENCY

(J1CA)

PROJECT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

TITLE STRUCTURAL DETAIL OF TWO-COLUMN PIER(PI~P8) AT A,B-LINE (2/1)

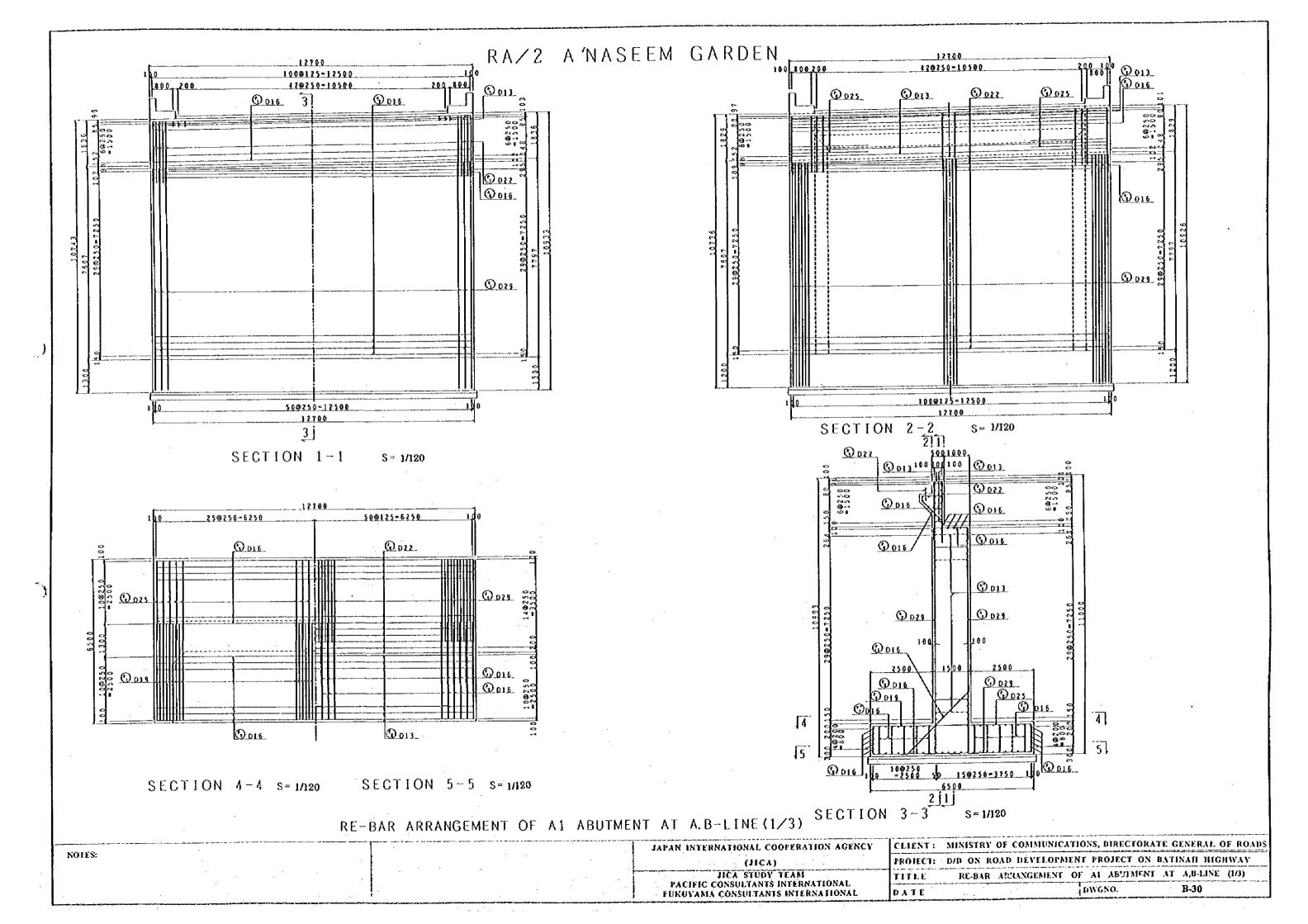
PACIFIC CONSULTANTS INTERNATIONAL

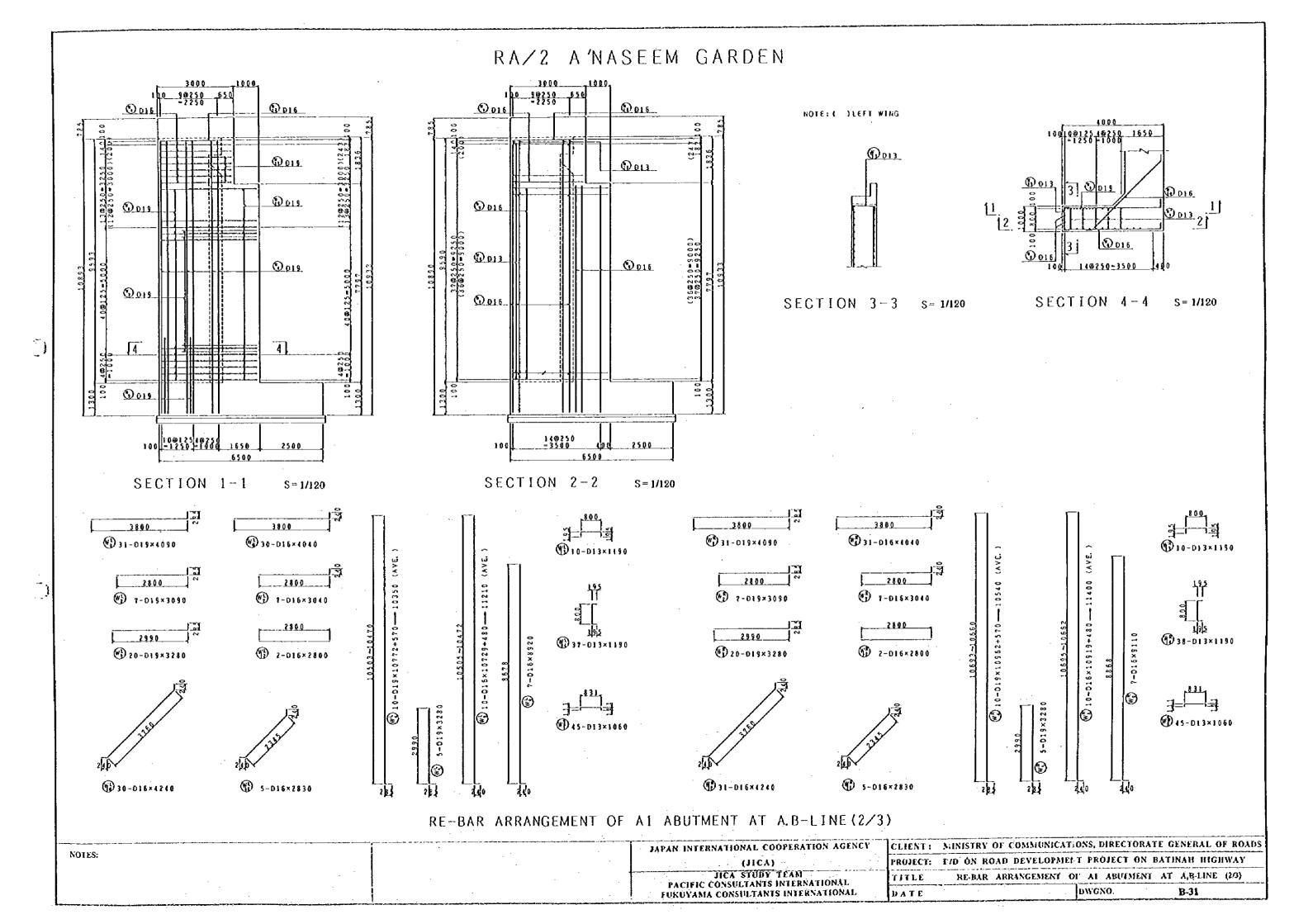
FUKUYAMA CONSULTANTS INTERNATIONAL

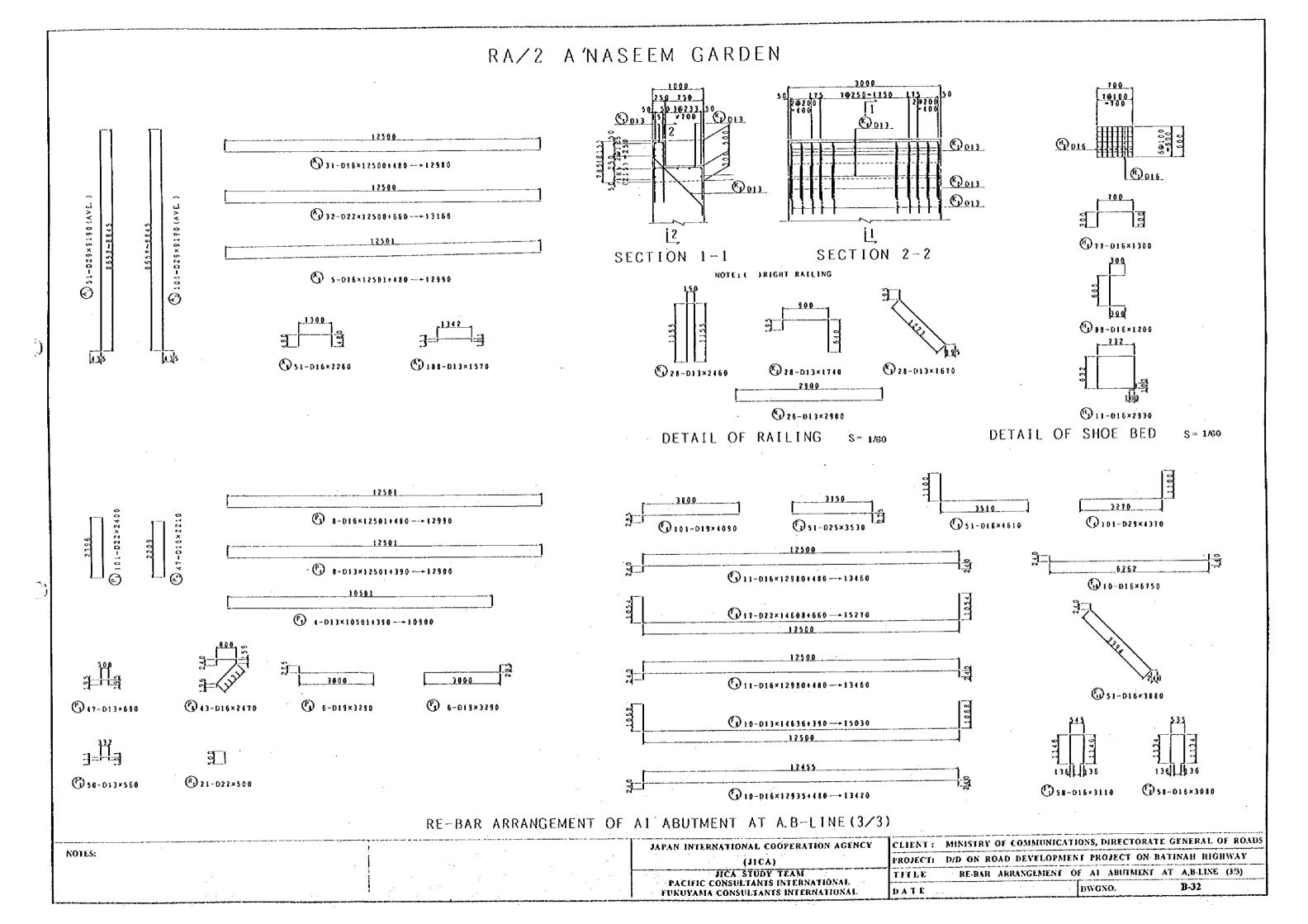
DATE

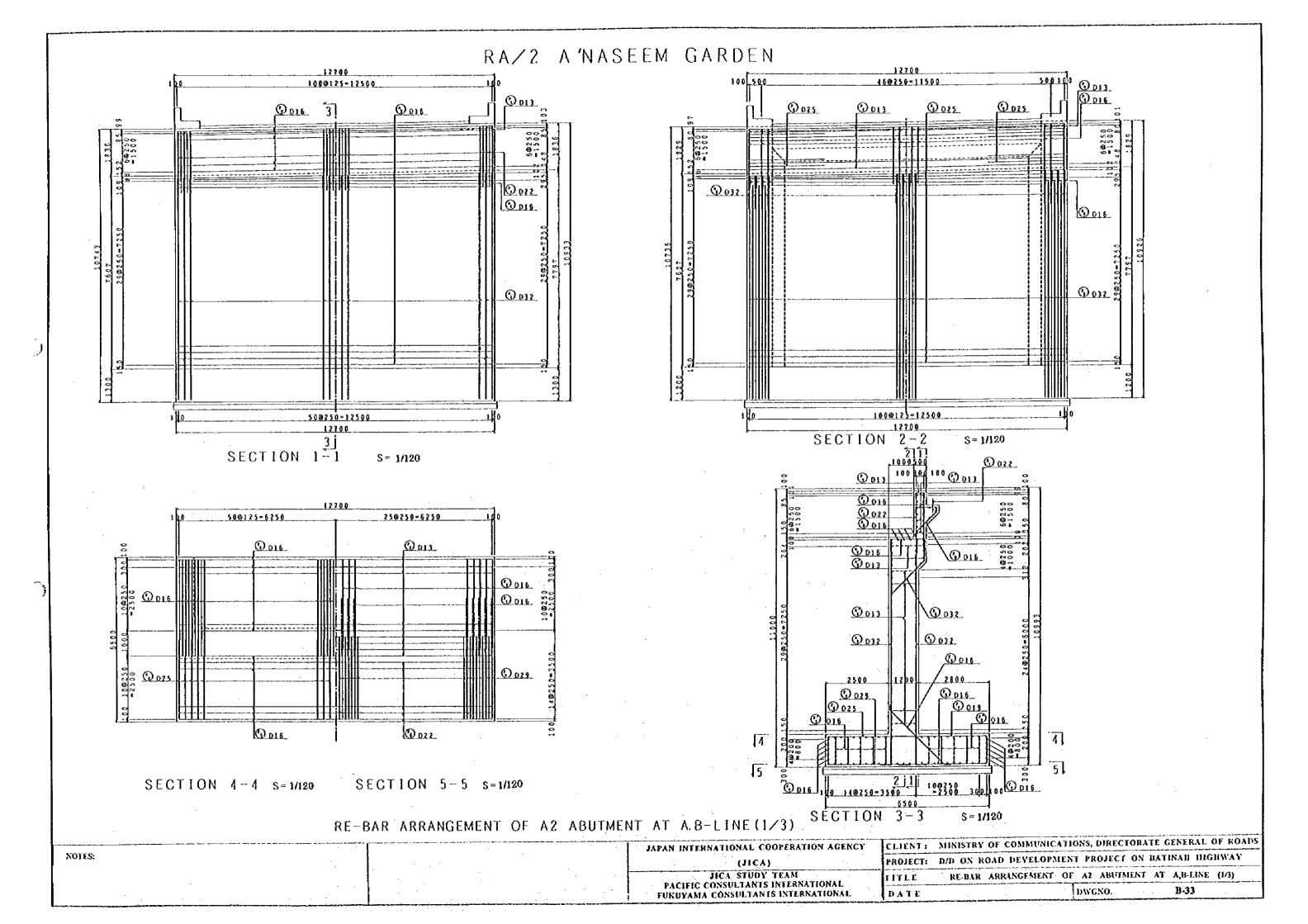
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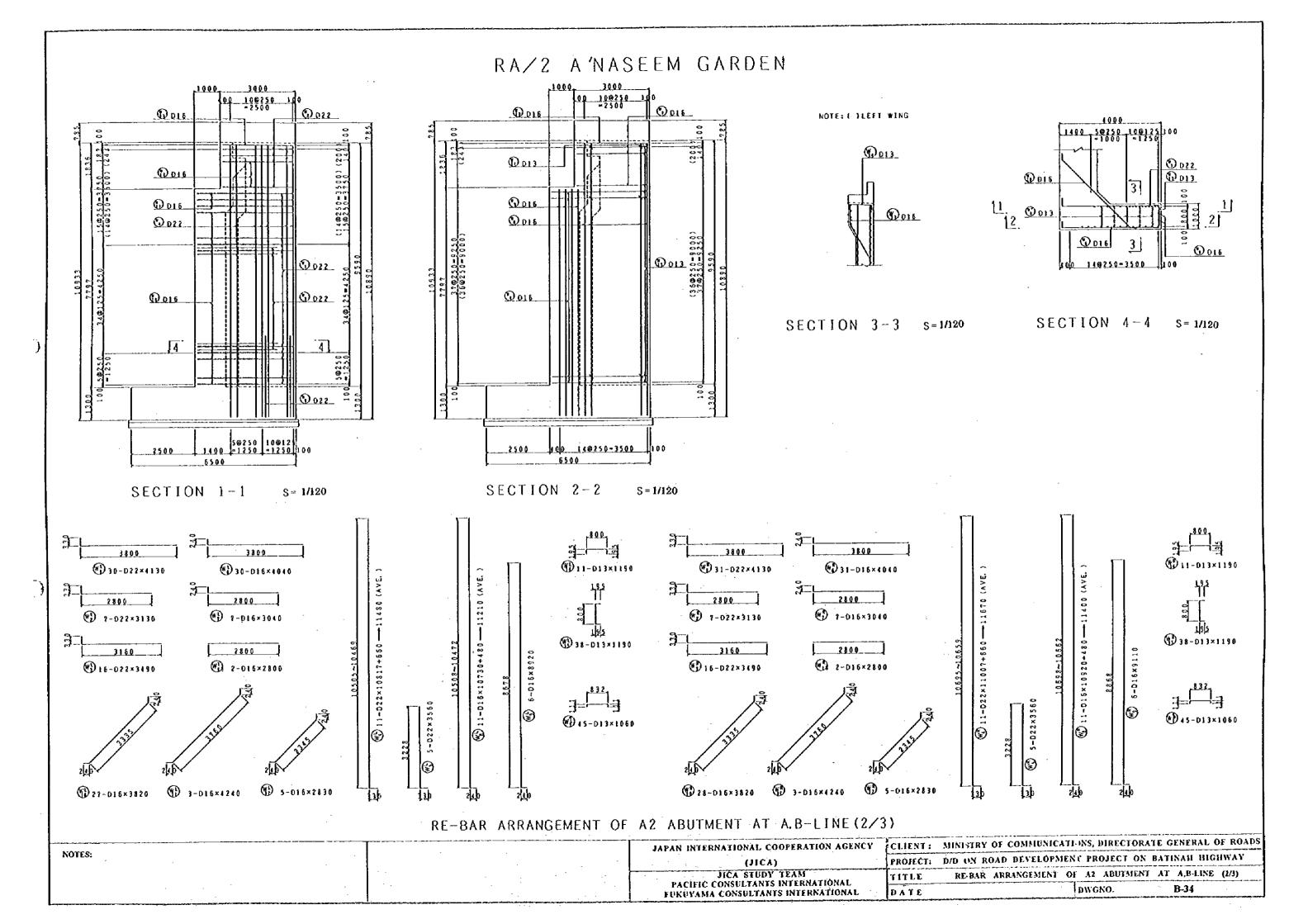
B-29











RA/2 A'NASEEM GARDEN Out H ③ 32-D19×12500+570----13070 Out. \$ 51-032×9240 (AVE.) \$ 101-032×8990 (AVE. 35-025×12500+750 -- 13250 177-016×1300 SECTION 1-1 SECTION 2-2 4-016×12501+480 --- 12990 NOTE: () RIGHT RAILING (D 88-016×1200 S1-032×2400 S1-016×2260 O150-013×1270 O 25-013×1570 © 28-013×1670 © 28-D13×1740 11-016×2930 @26-D13×2900 DETAIL OF SHOE BED DETAIL OF RAILING S= 1/60 (3) 8-D16×12501+480 --- 12990 (1)51-016×4710 (D101-029×4470 1 51-025×3530 101-019×4090 8-013×12501+380 -- 12900 (3) 11-D16×12980+180 --- 13460 10-016×6750 (i) 4-013×10501+390 → 10900 (15-D22×14608+660 -- 15270 (12-016×12980+480---13460 6-022×3330 (43-016×2470 6-D22×3330 (3) 47-013×590 (1) 51-D16×3450 (11-D13×14636+390 → 15030 9 (50-013×560 R) 21-D22×500

RE-BAR ARRANGEMENT OF A2 ABUTMENT AT A.B-LINE (3/3)

NOTES:

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(41CA)

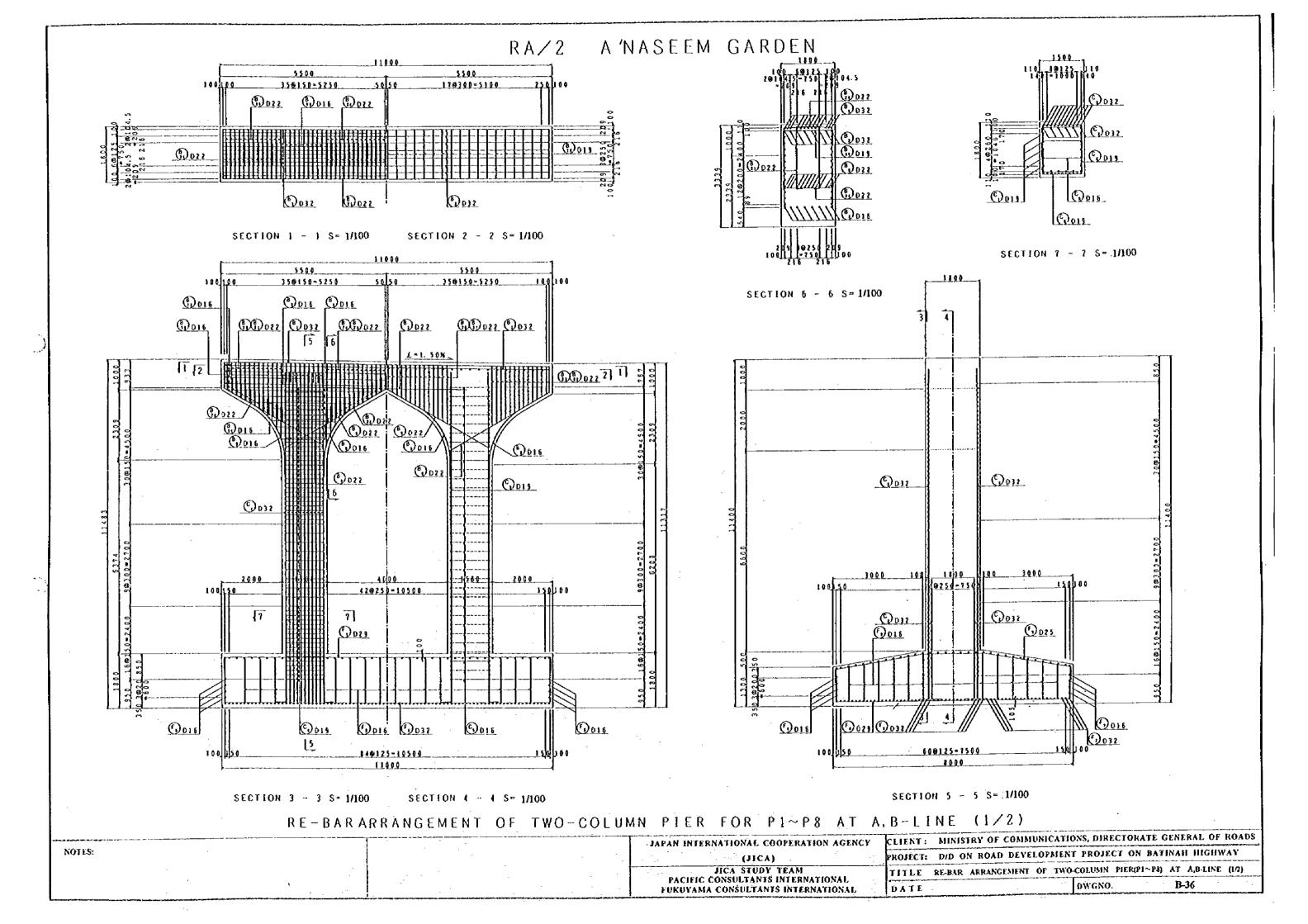
PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAL HIGHWAY

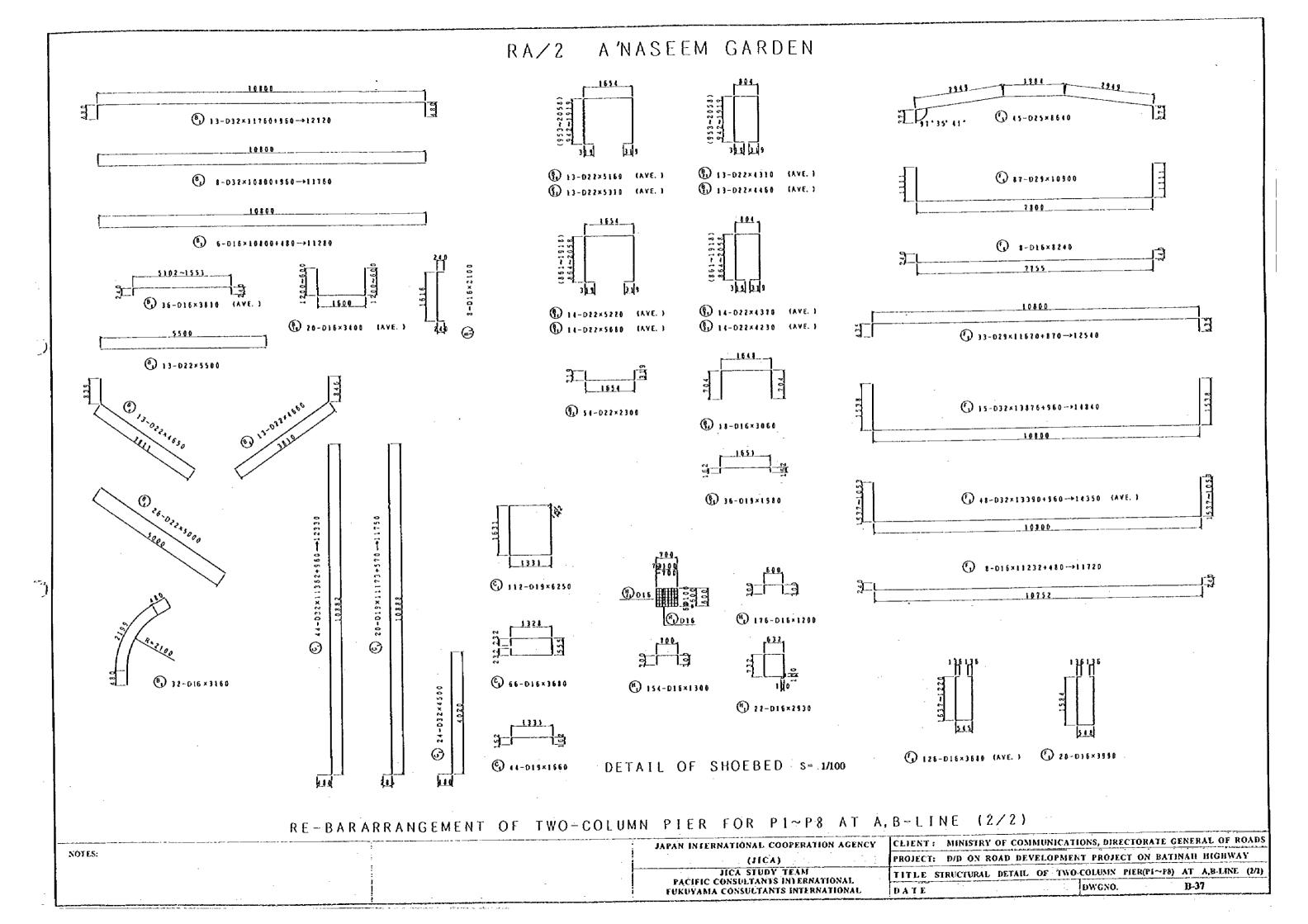
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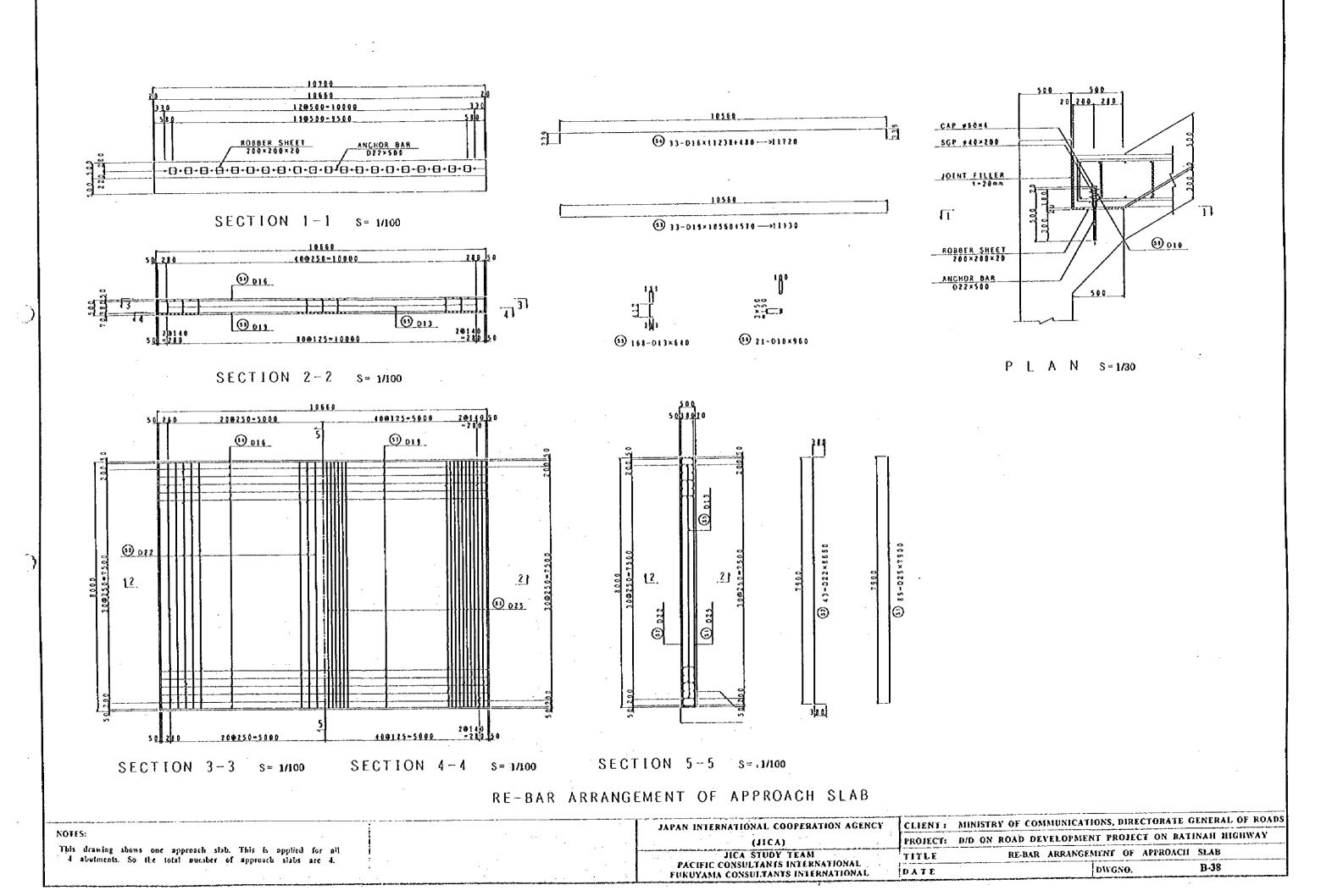
10-016×12935+480 -- 13420

(58-D16×3080

(58-016×3110







BAR BENDING DIAGRAM

LAP JOINT LENGTH

ø	a	LAP JOINT LENGT
D13	390	
D16	480	_
D19	570	1-1
D22	660	
D25	750	
D29	870	
D32	960	

CROSS-SECTIONAL ARER (cd) CROSS-SECTIONAL ARER (cd) MOMENAL VETORT NOMINAL VETGET (kg/#) (kg/m) 1.290 0.994 0.995 013 1.267 1.552 2.000 016 1.936 2.235 2.839 2.865 2.25 B19 3.871 3.042 022 3.871 3.04 3.973 **P25** 5.067 3.98 5.059 6.452 5.04 6.424 8.194 6.403 6.23

BENDING DIMENSION

(MAIN REINFORCEMENT)

⅓	# ≤ 90° R = 3 #	6 > 90° R • 5.5 €	HOOK LENGTH
D 13	39	71.5	Tal d
D 16	48	88	9 8 r=2.5 d
D 19	57	104.5	# at (2.5 p
D 22	66.	121	2012
D 25	75	137.5	•
D 29	87	159.5	
D 32	96	176	R = r + # / 2

BENDING DIMENSION (STIRRUP, ERECTION BAR)

		9=90	0=45	HOOK LENGTH				
ø	R = 2.5 ¢	1 8	8	STIRRUP	ERECTION BAR	ноор		
D13	32.5	51	77	0 8	***	32		
D 16	40	63	94	\$ 7=2.0 ¢	r-2.0#	[]		
D 19	47.5	75	115	7135	8 0	3+15		
D 22	55	86	130	N 8 R=1.6/2	R = 5 + 0 / 2	2,110/2		

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)

JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY BAR BENDING DIAGRAM TITLE DWGNO.