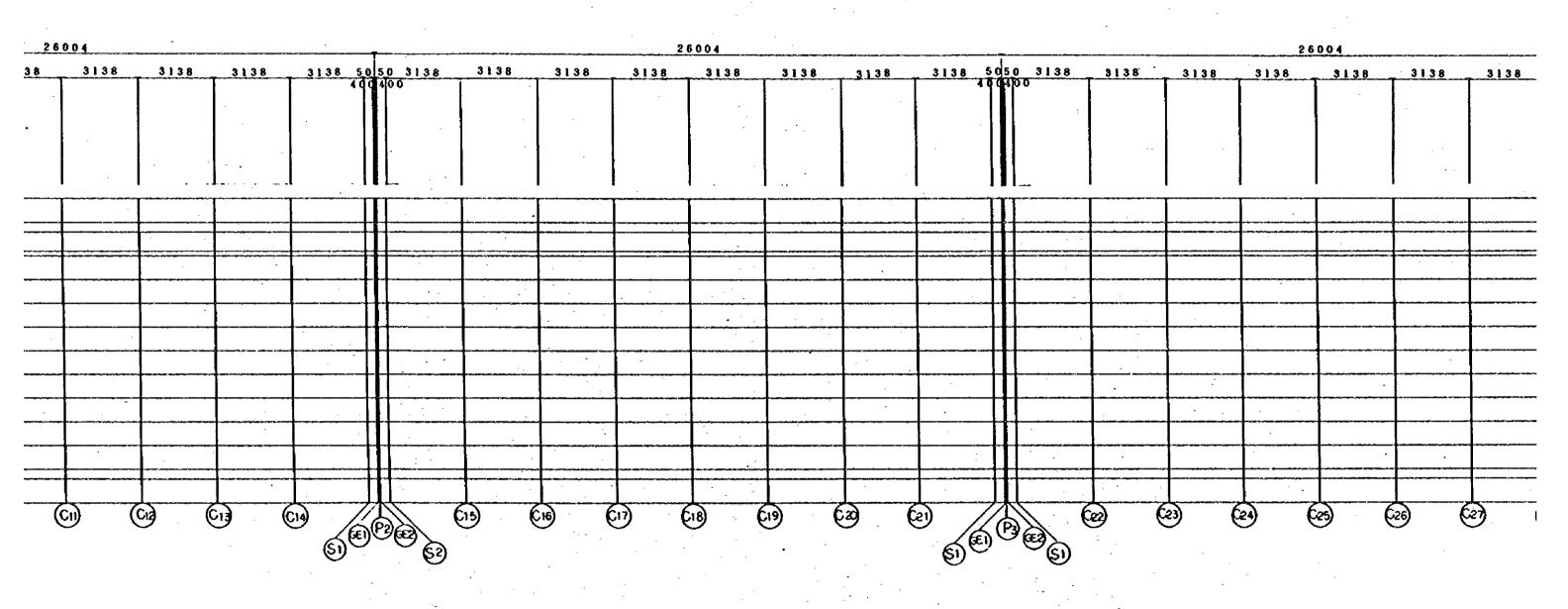
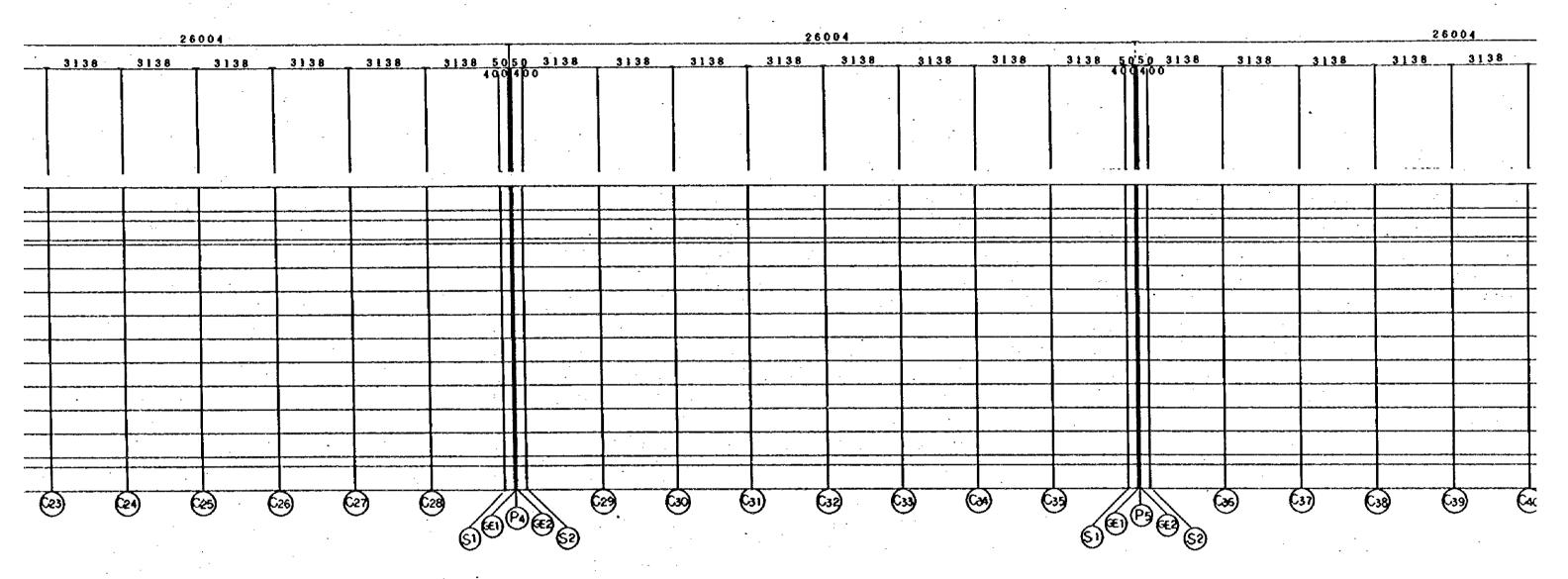
3138 5050 3138 4 4 4 00 (C1) Cia

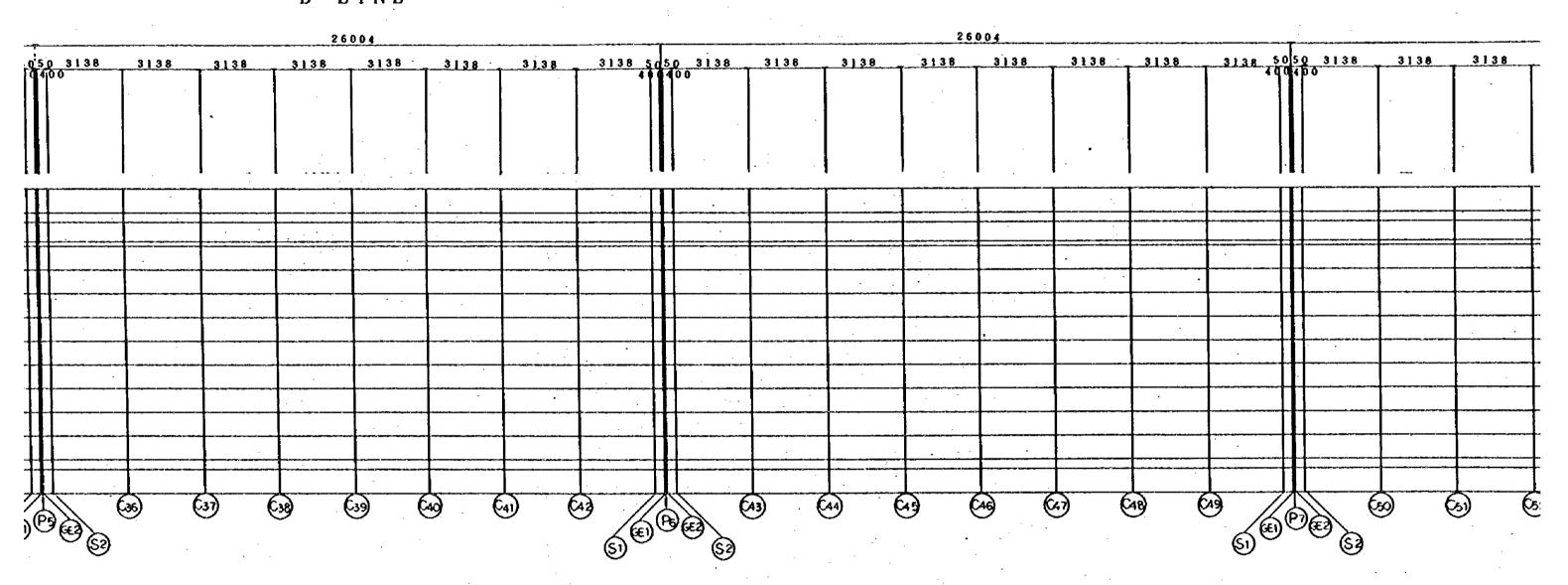
NOTES:

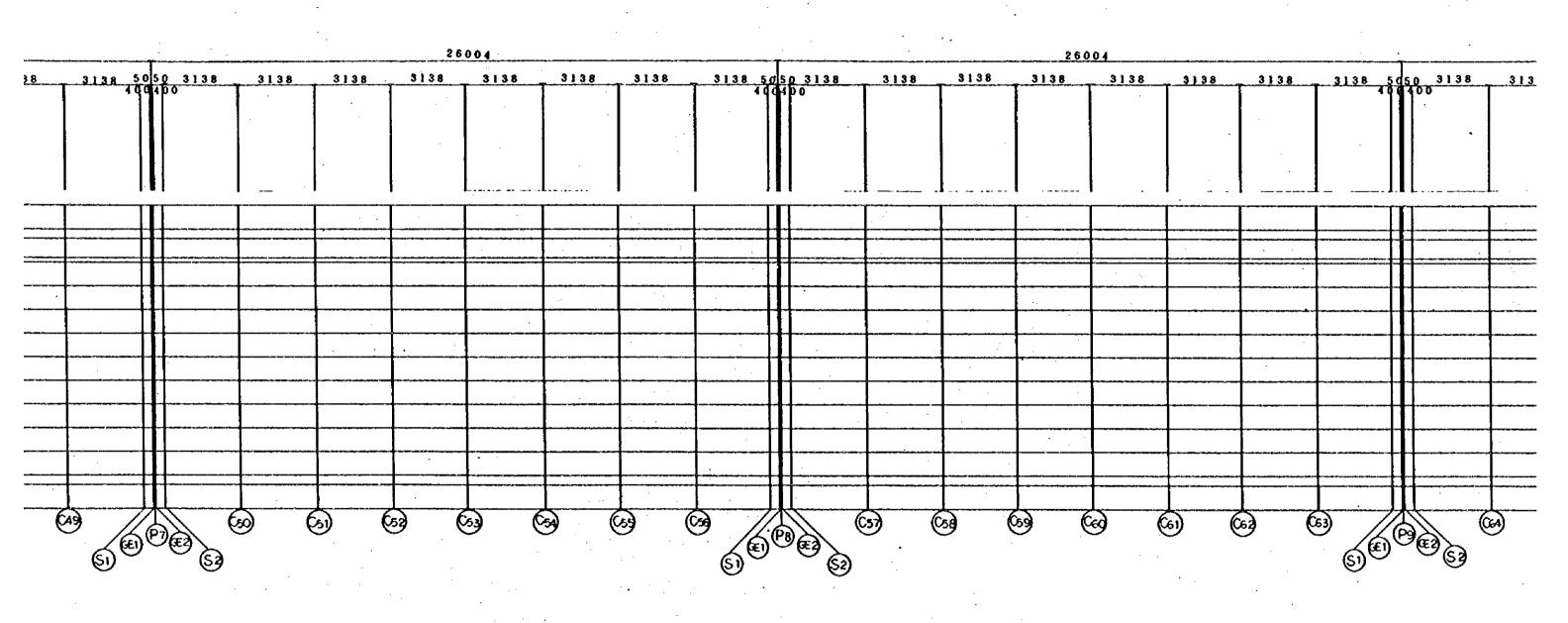


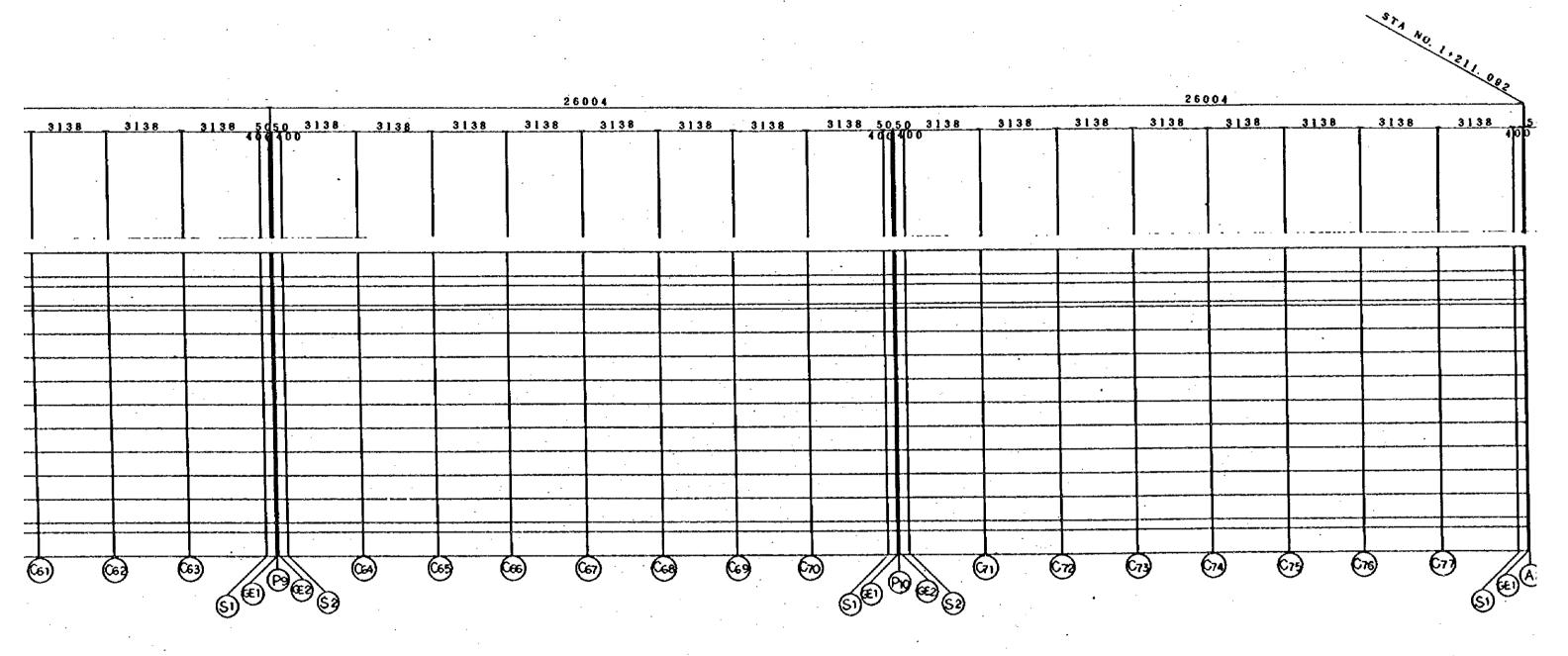
# $\frac{R/A-5 A L MU}{B-L I N E}$

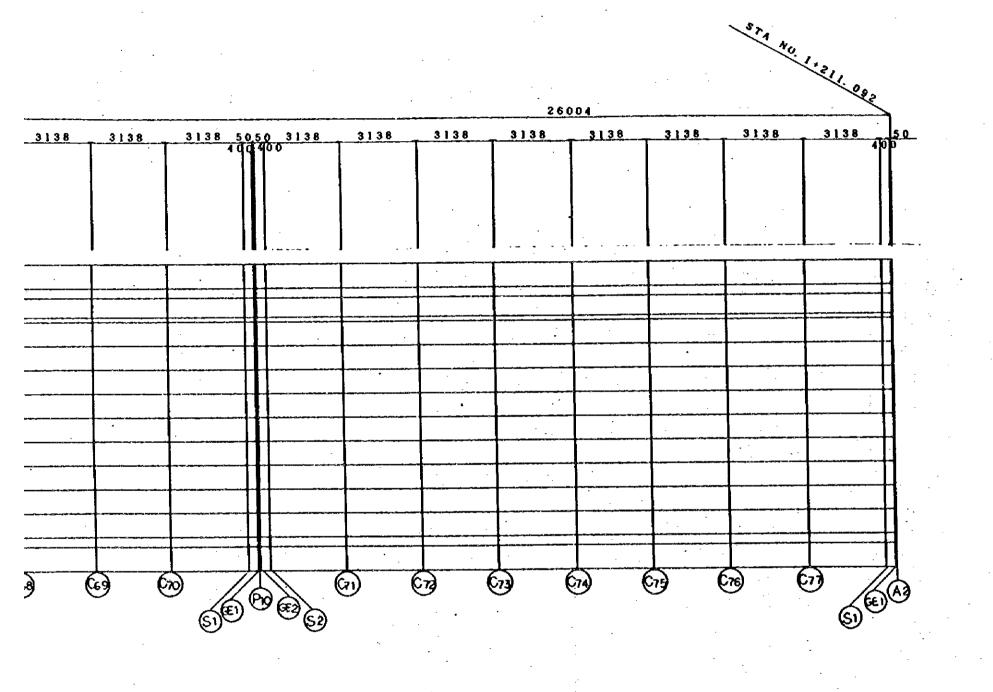


# R/A-5AL MULADDAH B-LINE

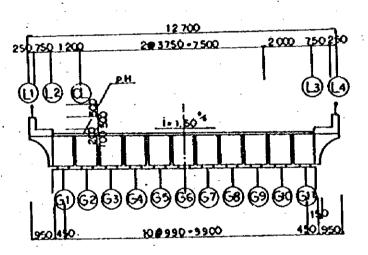








## B-LINE



B-5

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS JAPAN INTERNATIONAL COOPERATION AGENCY PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY (JICA)

JICA STUDY TEAM

PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL FRAMING PLAN RANS AT B-LINE TITLE DWGNO. DATE

SECTION	, , , , , ,	A1	A1-GE1	A1-S1	C4	P1-S1	P1-GE1	P1	P1-GE2	P1-S2	C11	P2-S1
STATION		0 + 930.1650	0 + 930.2150	0 + 930.6150	0 + 943.1650	0 + 955.7150	0 + 956.1150	0 + 956.1650	0 + 956.2150	0 + 956,6150	0 + 969.1650	0 + 981.7150
	X	0	0.05	0.45	13	25.55	25.95	26	26.05	26.45	39	51.55
	Υ	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
	Z	13.6566	13.6573	13,663	13.834	13.9893	13.994	13.9946	13.9951	13.9998	14.1382	14.2608
2	Χ	. 0	0.05	0.45	13	25.55	25.95	26	26.05	26.45	. 39	51.55
	Υ	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35
	Z	13.7416	. 13,7423	13.748	13.919	14.0743	14.079	14.0796	14.0801	14.0848	14.2232	14.3458
<u></u>	X	0	0.05	0.45	13	25.55	25.95	26	26.05	26.45	39	51.55
	Ý	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15
	Z	13.7236	13.7243	13.73	13.901	14.0563	14.061	14.0616	14.0621	14.0668	14.2052	14.3278
6(PIER CENTER)	χ	0	0.05	0.45	13	25.55	25.95	26	26.05	26.45	39	51.55
-	Υ	0	0	0	0	0	0	0	. 0	0	0	0
	Z	13.6613	13.662	13.6677	13.8387	13.994	13.9987	13,9993	13.9999	14.0046	14.143	14.2656
3	X	0	0.05	0.45	13	25.55	25.95	26	26.05	26.45	. 39	51.55
	Y	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35
	Z	13.581	13.5818	13.5875	13.7585	13.9138	13.9185	13.919	13.9196	13.9243	14.0627	14.1853
4	<u>x</u>	0	0.05	0.45	13	25.55	25.95	26	26.05	26.45	39	51.55
	Υ	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-8.35	-6.35
	z	13.4661	13.4668	13.4725	13.6435	13.7988	13.8035	13.8041	13.8046	13.8093	13.9477	14.0703

P1	P1-GE2	P1-S2	011	P2-\$1	P2-GE1	P2	P2-GE2	P2-S2	C18	P3-S1	P3-GE1	P3	P3-GE2	P3-S2	C25	P4-S1	P4-GE1	P4	P4-GE2
					······································										_				1 + 34.2150 1
26	26.05	26.45	39	51.55		52	52.05	52.45			77.95			78.45	91	103.55	103.95		104.05
6.35	6.35	6.35	<u> </u>	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
13.9946	13.9951	13.9998	14.1382	14.2608	14.2645	14.2649	14.2654	14,269	14.3748	14.4648	14.4674	14.4677	14.4681	14.4707	14.5438	14.6012	14.6028	14.6029	14.6031
26	26.05	26.45	39	51.55	51.95	52	52.05	52.45	65	77.55	77.95	78	78.05	78.45	91	103.55	103.95	104	104.05
5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35
14.0796	14.0801	14.0848	14.2232	14.3458	14.3495	14.35	14.3504	14.354	14.4598	14.5498	14.5524	14.5528	14.5531	14.5557	14.6288	14.6862	14.6878	14.688	14.6881
28	26.05	26.45	39	51.55	51.95	52	52.05	52.45	65	77.55	77.95	78	78.05	78.45	91	103.55	103.95	104	104.05
4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15
14,0618	14.0621	14.0668	14.2052	14.3278	14.3315	14.3319	14.3324	14.336	14.4418	14.5318	14,5344	14.5348	14.5351	14.5377	14.6108	14.6682	14.6698	14.67	14.6701
26	26.05	26.45	39	51.55	51.95	52	52.05	52.45	65	77.55	77.95	78	78.05	78.45	91	103.55	103.95	104	104.05
0	0	0	0	0	. 0	0	0	. 0	0	0	0	0	- 0	0	0	0	0	0	0
13.9993	13.9999	14.0046	14.143	14.2656	14.2692	14.2697	14.2702	14.2738	14,3795	14.4696	14.4722	14.4725	14.4728	14.4754	14.5485	14.6059	14.6075	14.6077	14.6079
26	26.05	26.45	39	51.55	51.95	52	52.05	52.45	65	77.55	77.95	78	78.05	78.45	91	103.55	103.95	104	104.05
-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	~5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35
13.919	13.9196	13.9243	14.0627	14.1853	14.189	14.1894	14.1899	14.1935	14.2993	14.3893	14.3918	14.3922	14.3926	14.3952	14.4683	14.5257	14.5273	14.5274	14.5276
26	26.05	26.45	39	51.55	51.95	52	52.05	52.45	65	77.55	77.95	78	78.05	78.45	91	103.55	103.95	104	104.05
-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35
13.8041	13.8046	13.8093	13.9477	14.0703	14.074	14.0745	14.0749	14.078	14.1843	14.2743	14.2769	14.2773	14.2776	14.2802	14.3533	14.4107	14.4123	14.4125	14.4126

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# FRAMING PLAN AT RA/05 AL MULADDAH (B-LINE)

										····										··· · · · · · · · · · · · · · · · · ·
	C25	P4-S1	P4-GE1	P4	P4-GE2	P4-S2	C32	P5-S1	P5-GE1	P5	P5-GE2	P5-S2	C39	P6-S1	P6-GE1	P6	P6-GE2	P6-S2	C46_	P7-S1
50	1 + 21.1650	1 + 33.7150	1 + 34.1150	1 + 34.1650	1 + 34.2150	1 + 34.6150	1 + 47.1650	1 + 59.7150	1 + 60.1150	1 + 60.1650	1 + 60.2150	1 + 60.6150	1 + 73.1650	1 + 85.7150	1 + 86.1150	1 + 86.1650	1 + 86.2150	1 + 86.6150	1 + 99,1650	1 + 111.71!
15	91					104,45	117		129.95	130		130.45	143		155.95			156.45	169	181.5
35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6,35	6.3
)7	·					14.6047	14.6452		14.6705	14.6705	14.6706	14.6711	14.679	14.6711	14.6706	14.6705	14.6705	14.67	14.6452	14.604
45				104		104.45	117		129.95	130		130.45	143	155.55	155.95	156	156.05	156.45	169	181.5
35							5.35			5.35		5.35	5.35		5.35	5.35	5.35	5.35	5.35	5.3
57						14.6897				14.7556		14.7561	14.764				14.7555	14.755	14.7302	14.689
45	,				·		117			130		130.45	143		155.95			156.45	169	181.5
15													4.15			-	·	4.15	4.15	4.1
77								-					14,746				14.7375	14.737		14.671
45						-	117						143							181.
0	1	) 0		0	0		0		0	<del></del>	0	0	0		0	0	0	0	0	
54	14.5485	14.6059	14.6075	14.6077			14.6499	14.6747			14.6754	14.6759	14.6838	14.6759	14.6754	14.6753	14.6752	14.6747	14.65	14.609
.45															155.95	156	156.05	156.45	169	181.
35						<del></del>									-5.35	-5.35	-5.35	-5.35	-5.35	-5.(
152														1			14.595	14.5945	14.5697	14.529
.45					T			<u> </u>										156.45	169	
.35					·							- :						-		-8.
302															1			14,4795		
102	.1 14.0000	<u> </u>	1 .7.7.6	17.712	1 17.7120	1 17.7192	1 17,704	17.7700	1-7,40	1 .7.700	1 17,4001	1 17.7000	177000							

+ 86   150   1 + 86   210   1 + 86   210   1 + 86   210   1 + 112   150   1 + 112   112   1 + 112		<del></del>														<u> </u>				
156	P6	P6-GE2	P6-S2	C46	P7-\$1	P7-GE1	· P7	P7-GE2	P7-S2	C53	P8-S1	P8-GE1	P8	P8-GE2	P8-S2	C60	P9-S1	P9-GE1	P9	P9-GE2
6.35 6.35 6.35 6.35 6.35 6.35 6.35 6.35	1 + 86.1650	1 + 86.2150	1 + 86.6150	1 + 99.1650	1 + 111.7150	1 + 112.1150	1 + 112.1650	1 + 112.2150	1 + 112.6150	1 + 125.1650	1 + 137.7150	1 + 138.1150	1 + 138.1650	1 + 138,2150	1 + 138.6150	1 + 151.1650	1 + 163,7150	1 + 164.1150	1 + 164.1650	1 + 164.21501
14.6705         14.6705         14.6705         14.6705         14.6705         14.6452         14.6047         14.6029         14.6028         14.6012         14.5438         14.4707         14.4681         14.4671         14.4648         14.3748         14.2694         14.2649         1           156         156.05         156.45         169         181.55         181.95         182.45         185         207.55         207.95         208         208.05         208.45         221         233.55         233.95         234           5.35	156	156.05	156.45	169	181.55	181.95	182	182.05	182.45	195	207.55	207.95	208	208.05	208.45	221	233.55	233.95	234	234.05
156 15605 15645 169 181.55 181.95 182 182.05 182.45 195 207.55 207.95 208 208.05 208.45 221 233.55 233.95 234 14.7556 14.7555 14.755 14.7302 14.6897 14.6881 14.688 14.6878 14.6862 14.6288 14.5557 14.5531 14.5528 14.5524 14.5498 14.4598 14.354 14.3544 14.354 14.15 14.6699 14.6698 14.6698 14.6698 14.6398 14.5377 14.5351 14.5348 14.5344 14.5318 14.4418 14.336 14.332 14.156 156.05 156.05 156.05 156.05 1	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
5.35         5.35 <th< td=""><td>14.6705</td><td>14.6705</td><td>14.67</td><td>14.6452</td><td>14.6047</td><td>14.6031</td><td>14.6029</td><td>14.6028</td><td>14.6012</td><td>14.5438</td><td>14.4707</td><td>14.4681</td><td>14.4677</td><td>14.4674</td><td>14.4648</td><td>14.3748</td><td>14.269</td><td>14.2654</td><td>14.2649</td><td>14.2645</td></th<>	14.6705	14.6705	14.67	14.6452	14.6047	14.6031	14.6029	14.6028	14.6012	14.5438	14.4707	14.4681	14.4677	14.4674	14.4648	14.3748	14.269	14.2654	14.2649	14.2645
14.7556         14.7555         14.7555         14.7555         14.7302         14.6881         14.6881         14.6878         14.6862         14.6288         14.5557         14.5531         14.5528         14.5524         14.5498         14.4598         14.3504 <t< td=""><td>156</td><td>156.05</td><td>156.45</td><td>169</td><td>181.55</td><td>181.95</td><td>182</td><td>182.05</td><td>182.45</td><td>195</td><td>207.55</td><td>207.95</td><td>208</td><td>208.05</td><td>208.45</td><td>221</td><td>233.55</td><td>233.95</td><td>234</td><td>234.05</td></t<>	156	156.05	156.45	169	181.55	181.95	182	182.05	182.45	195	207.55	207.95	208	208.05	208.45	221	233.55	233.95	234	234.05
156 156.05 156.45 169 181.55 181.95 182 182.05 182.45 195 207.55 207.95 208 208.05 208.45 221 233.55 233.95 234 4.15 4.15 4.15 4.15 4.15 4.15 4.15 4.1	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35
4.15       4.15	14.7556	14.7555	14.755	14.7302	14.6897	14.6881	14,688	14.6878	14.6862	14.6288	14.5557	14.5531	14.5528	14.5524	14.5498	14.4598	14.354	14.3504	14.35	14.3495
14.7376       14.7375       14.7375       14.7377       14.7122       14.6717       14.6701       14.6699       14.6698       14.6882       14.6108       14.5377       14.5351       14.5348       14.5344       14.5318       14.4418       14.336       14.3324       14.332       1         156       156.05       156.45       169       181.55       181.95       182       182.05       182.45       195       207.55       207.95       208       208.05       208.45       221       233.55       233.95       234         0	156	156.05	156.45	169	181.55	181.95	182	182.05	182.45	195	207.55	207.95	208	208.05	208.45	221	233.55	233.95	234	234.05
156	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4,15	4.15	4.15	4.15	4.15	4.15	4.15	4.15
0         0	14.7376	14,7375	14,737	14.7122	14.6717	14.6701	14.6699	14.6698	14.6682	14.6108	14.5377	14.5351	14,5348	14.5344	14.5318	14.4418	14.336	14.3324	14.332	14,3315
14.6753     14.6752     14.6747     14.65     14.6094     14.6079     14.6077     14.6075     14.6059     14.5485     14.4724     14.4728     14.4722     14.4696     14.3796     14.2738     14.2702     14.2697     1       156     156.05     156.45     169     181.55     181.95     182     182.05     182.45     195     207.55     207.95     208     208.05     208.45     221     233.55     233.95     234       -5.35	156	156.05	156.45	169	181.55	181.95	182	182.05	182.45	195	207.55	207.95	208	208.05	208.45	221	233.55	233.95	234	234.05
156     156.05     156.45     169     181.55     181.95     182     182.05     182.45     195     207.55     207.95     208     208.05     208.45     221     233.55     233.95     234       -5.35     -5	0	0	0	0	0	0	0	0	0	0	0	0	0	o	0	0	0	0	0	o
-5.35         -5.35 <th< td=""><td>14.6753</td><td>14.6752</td><td>14.6747</td><td>14.65</td><td>14.6094</td><td>14,6079</td><td>14.6077</td><td>14.6075</td><td>14.6059</td><td>14.5485</td><td>14.4754</td><td>14.4728</td><td>14.4725</td><td>14.4722</td><td>14.4696</td><td>14.3796</td><td>14.2738</td><td>14.2702</td><td>14.2697</td><td>14.2692</td></th<>	14.6753	14.6752	14.6747	14.65	14.6094	14,6079	14.6077	14.6075	14.6059	14.5485	14.4754	14.4728	14.4725	14.4722	14.4696	14.3796	14.2738	14.2702	14.2697	14.2692
14.595 14.595 14.5945 14.5697 14.5292 14.5276 14.5274 14.5273 14.5257 14.4683 14.3952 14.3926 14.3922 14.3919 14.3893 14.2993 14.1935 14.1899 14.1894	156	156.05	156.45	169	181.55	181.95	182	182.05	182.45	195	207.55	207.95	208	208.05	208.45	221	233.55	233,95	234	234.05
	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35
156 156.05 156.45 169 181.55 181.95 182 182.05 182.45 195 207.55 207.95 208 208.05 208.45 221 233.55 233.95 234	14.595	14.595	14.5945	14.5697	14.5292	14.5276	14.5274	14.5273	14.5257	14.4683	14.3952	14.3926	14.3922	14.3919	14,3893	14.2993	14.1935	14.1899	14.1894	14.189
	156	156.05	156.45	169	181.55	181.95	182	182.05	182.45	195	207.55	207.95	208	208.05	208.45	221	233,55	233.95	234	234.05
-6.35 -6.35 -6.35 -6.35 -6.35 -6.35 -6.35 -6.35 -6.35 -6.35 -6.35 -6.35 -6.35 -6.35 -6.35 -6.35 -6.35	-6.35	-6.35	-6.35	-6.35	-8.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35	-6.35
14.4801 14.48 14.4795 14.4547 14.4142 14.4126 14.4125 14.4123 14.4107 14.3533 14.2802 14.2776 14.2773 14.2769 14.2743 14.1843 14.0785 14.0749 14.0745	14.4801	14.48	14.4795	14.4547	14.4142	14,4126	14.4125	14.4123	14.4107	14.3533	14.2802	14.2776	14.2773	14.2769	14.2743	14.1843	14.0785	14.0749	14.0745	14.074

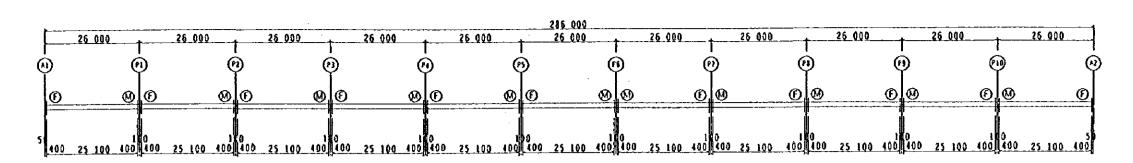
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T	050		.000	P9-S1	P9-GE1	P9	P9-GE2	P9-S2	C67	P10-S1	P10-GE1	P10	P10-GE2	P10-S2	C74	A2-S1	A2-GE1	A2
	-GE2	P8-\$2	C60 1 + 151.1650															
41+1			221	233.55	233.95	234	234.05	234.45	247		259,95	•	٠	260,45	273		285.95	286
8	208.05	208.45		6,35	6.35	6.35		6.35			6.35		6.35		6.35		6.35	6.35
3	6.35	6.35	14.3748	14.269		14.2649	14.2645	14.2608	14.1382	13.9998	13.9951	13.9945			13.834		13.6573	13.6565
4	14.4674	14.4648 208.45	14.3 <i>1</i> 48 221	233.55		234	234.05				259.95				273		285.95	286
<u> </u>	208.05 5.35	5,35		5.35		5.35	5.35				<del> </del>							5.35
9	14.5524	14.5498		14.354	· .	14.35	14.34 <b>9</b> 5	14.3458			14.0801							13,7416
18	208.05	208.45		233.55	233.95	234	234.05	234.45			259.95				273		285.95	286
5	4.15			4.15		4.15		4.15				:					4.15	4.15
18	14.5344	14.5318		**************************************		14.332		14.3278			14.0621	14.0616			13.901		13.7243	13.7235
)8	208.05	208.45		233.55		234	-								273		285.95	286
	200.00	200.40	0			0							0	0	C	0	0	0
25	14.4722	14,4696			14.2702	14.2697	14.2692			14.0046	13.9999	13.9993	13.9987	13.994	13.8388	13.6677	13.662	13.6613
28	208.05	208.45		233.55					247	259.55	259.95	260	260.05	260.45	273	285.55	285.95	286
35	-5.35		÷	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35
22	14,3919	14.3893			14.1899	14.1894	14.189	14.1853	14.0627	13.9243	13.9196	13.919	13.9185	13.9138	13.7585	13.5875	13.5818	13.581
D8	208.05			233.55	233.95	234	234.05	234.45	247	259.55	259.95	260	260.05	260.45	273	285.55	285.95	286
35	-6.35		-6.35	-6.35	-6.35	6.35	-6.35	-6.3	-6.35	-6,35	-6.35	-6.35	-6.35	-6.35	-6.3	-6.35	-6.35	-6.35
73	14.2769	14.274	14.1843	14.0785	14.0749	14.0745	14.074	14.0703	13.9477	13,8093	13.8046	13.8041	13.8035	13.7988	13.643	13.4725	13.4668	13.4661

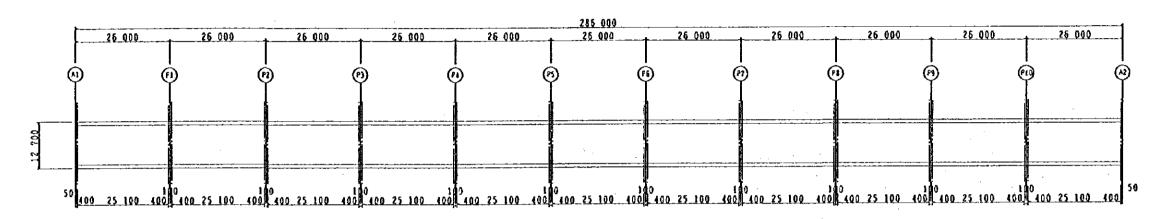
	P10-S1	P10-GE1	P10	P10-GE2	P10-\$2	C74	A2-S1	A2-GE1	A2
1650			1 + 190.1650	-			1 + 215.7150	1 + 216,1150	1 + 216.1650
247	259.55	259.95	260	260.05	260.45	273	285.55	285.95	286
6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
382	13.9998	13.9951	13.9945	13.994	13.9893	13,834	13.663	13,6573	13.6565
247	259.55	259.95	260	260.05	260.45	273	285.55	285.95	286
<u>5.35</u>	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35	5.35
<u> 232</u>	14.0848	14.0801	14.0796	14.079	14.0743	13.919	13.748	13.7423	13.7416
247	259.55	259.95	260	260.05	260.45	273	285.55	285.95	286
4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15	4.15
2052	14.0668	14.0621	14.0616	14.061	14.0563	13.901	13.73	13.7243	13.723
247	259.55	259.95	260	260.05	260.45	273	285.55	285.95	280
0	0	0	0	0	0	0	0	0	
1429	14.0046	13.9999	13.9993	13.9987	13.994	13.8388	13.6677	13.662	13.661
247	259.55	259.95	260	260.05	260.45	273	285.55	285.95	28
-5.35	5 -5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.35	-5.3
062	7 13.9243	3 13,9196	13.919	13.9185	13.9138	13.7585	13.5875	13,5818	13.58
24	7 259.5	5 259.95	260	260.05	260.45	273	285.55	285.95	28
-6.3	5 -6.3	5 -6.35	-6,35	-6.35	-6.35	-6.35	-6,35	-6.35	-6.3
947	7 13.809	3 13,8046	13.8041	13.8035	13.7988	13.6435	13,4725	13.4668	13.466

Japan International Cooperation Agency	CLIENT:	ministry of communications, directorate general of roads
(JICA)	PROJECTI	D/D ON ROAD DEVELOPMENT PROJECT ON BATINAN HIGHWAY
Jica Study Tram Pacific Consultants Intrinational	TITLE	CO-ORDINATE LIST RAMS AT B-LINE
Fukuyama Consultants international	DATE	DWONO. B-6

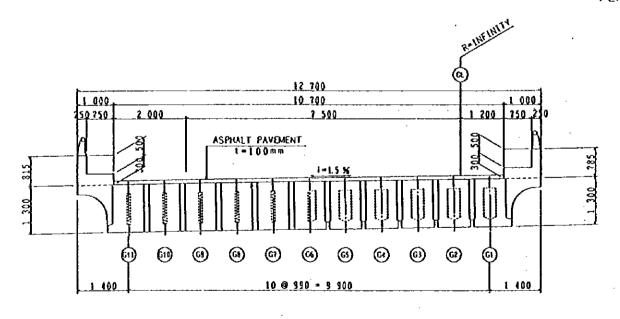


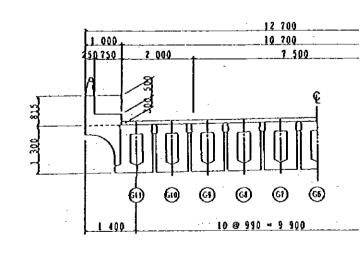
PROFILE OF BRIDGE

s= 1/1000



PLAN s= 1/1000





	GIRDER LENGTH	SPAN LENGTH	REMARKS
(1)~(1) (10)~(2)	25 902	25 102	INCLINED LENGTH
(P) ~ (P) (P) ~ (P)	25 901	25 101	,
<b>②~</b> ●	25 900	25 100	

GIRDER LENGTH

TYPICAL SEC.

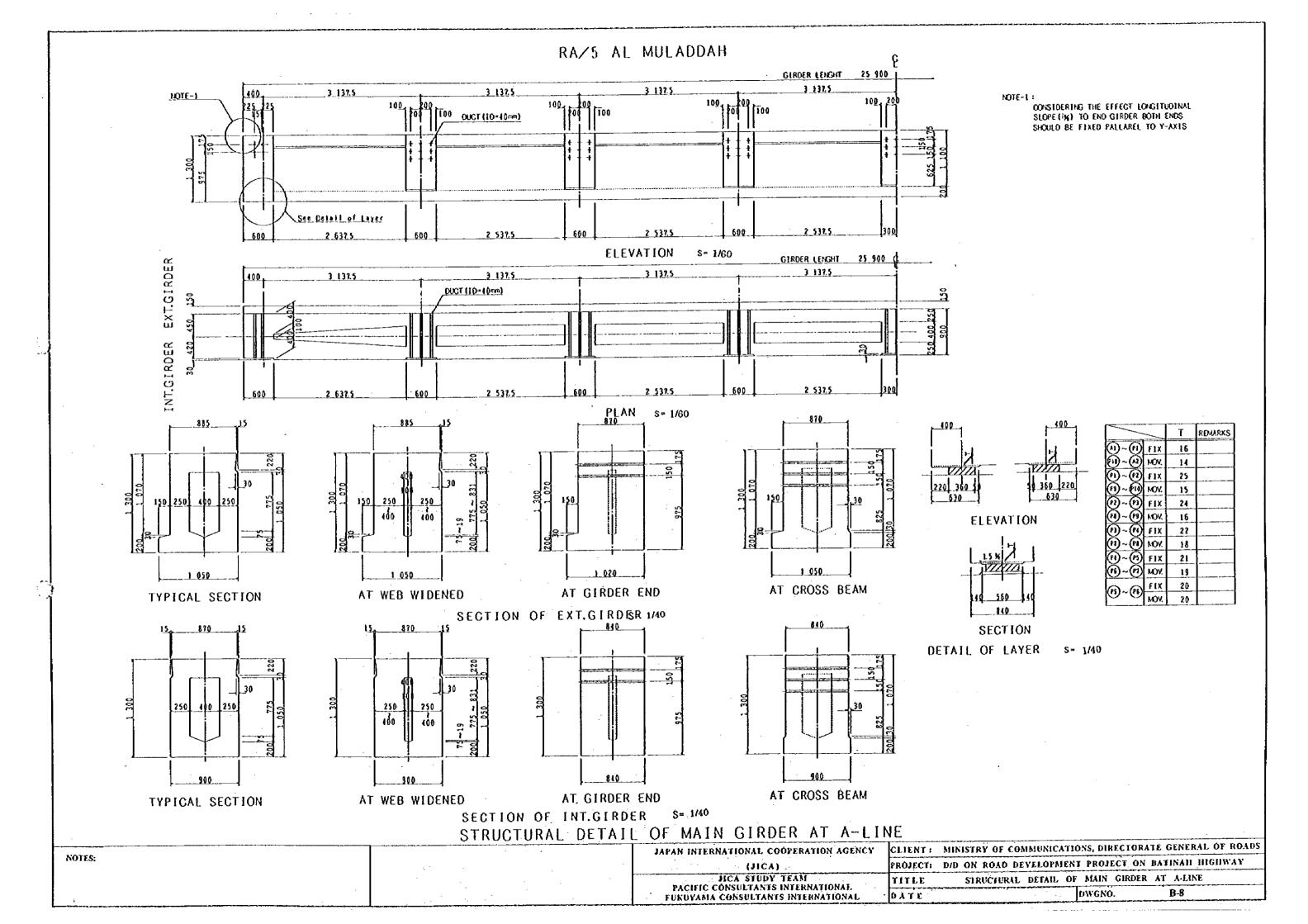
GIRDER END

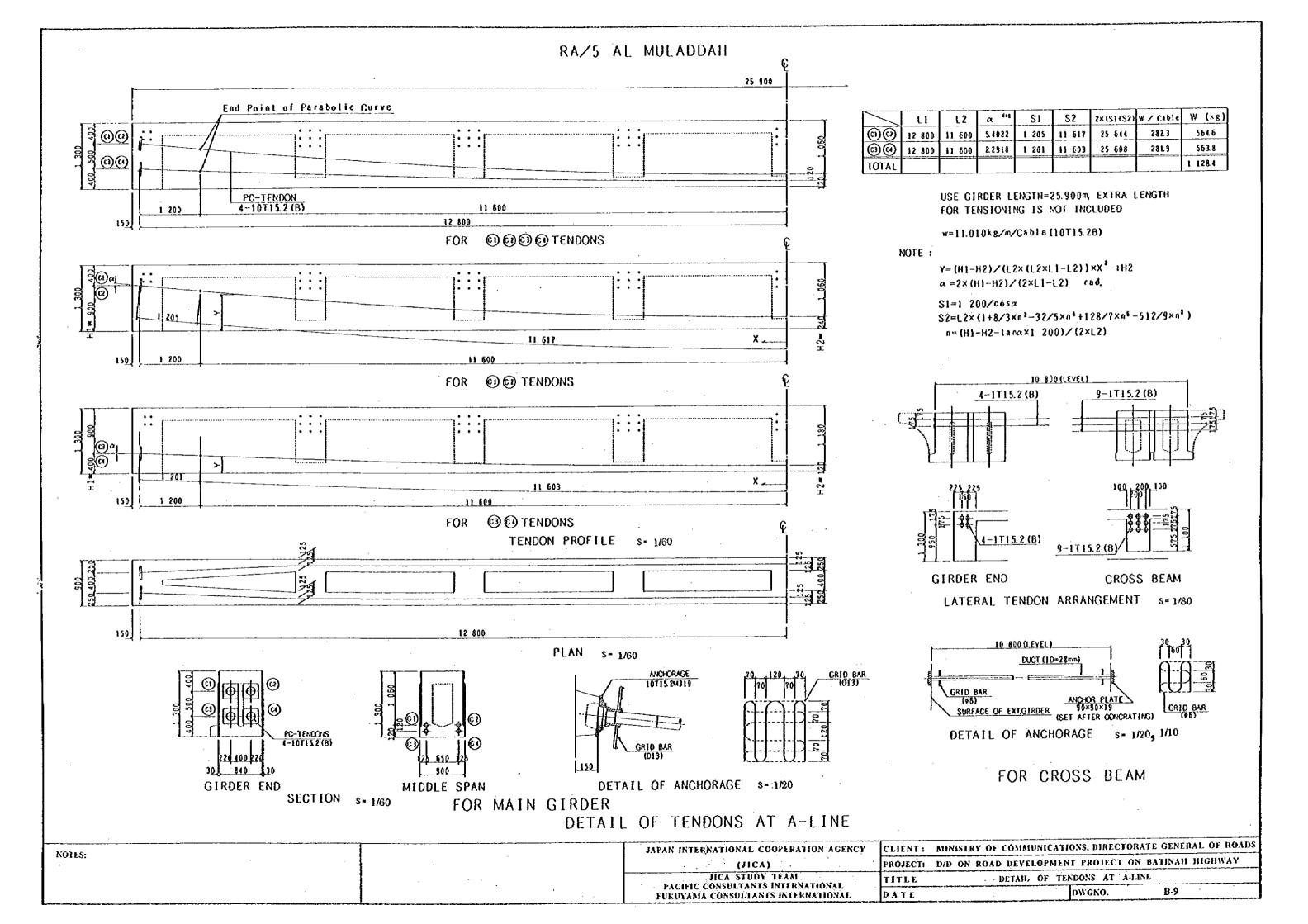
MIDDLE SPAN

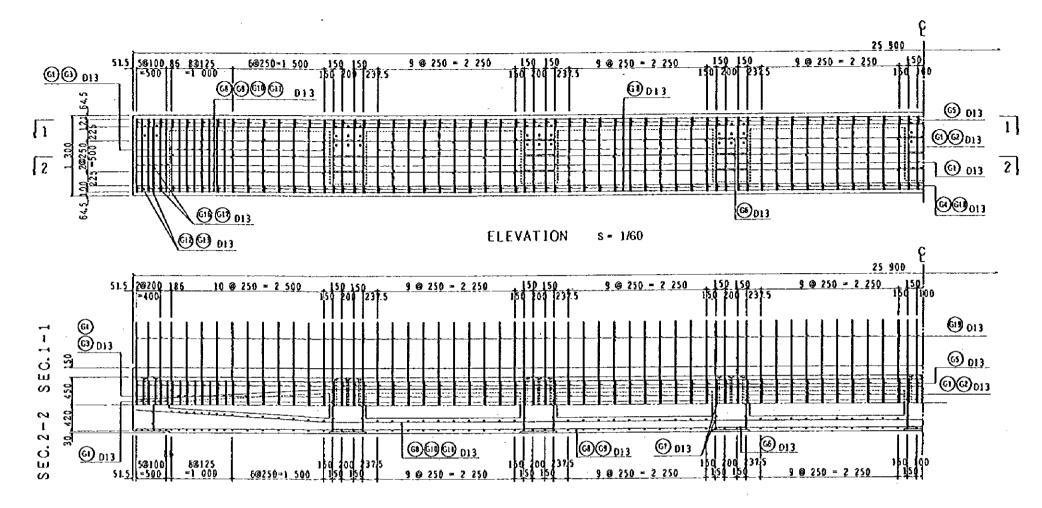
SECTION s=.1/100

# GENERAL VIEW OF BRIDGE AT A-LINE

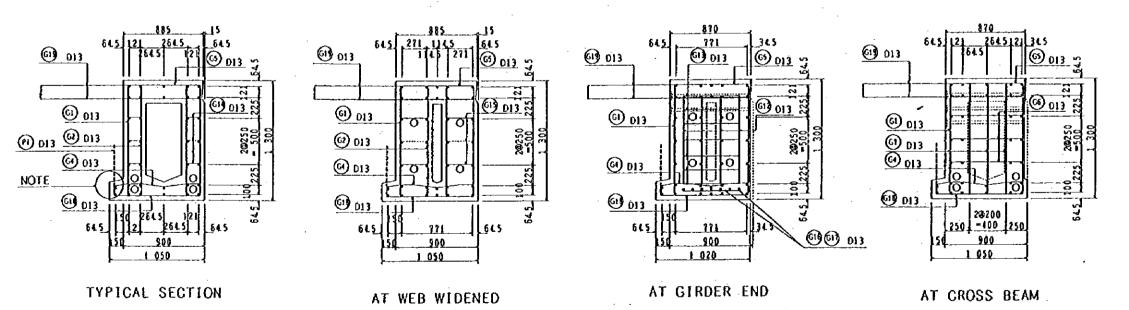
ł		
NOTES:	JAPAN INTERNATIONAL COOP	RATION AGENCY CLIENT; MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	(JICA)	PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
	JICA STUDY TEA	
<b>:</b>	FUKUYAMA CONSULTANTS IN	







PLAN S= 1/60



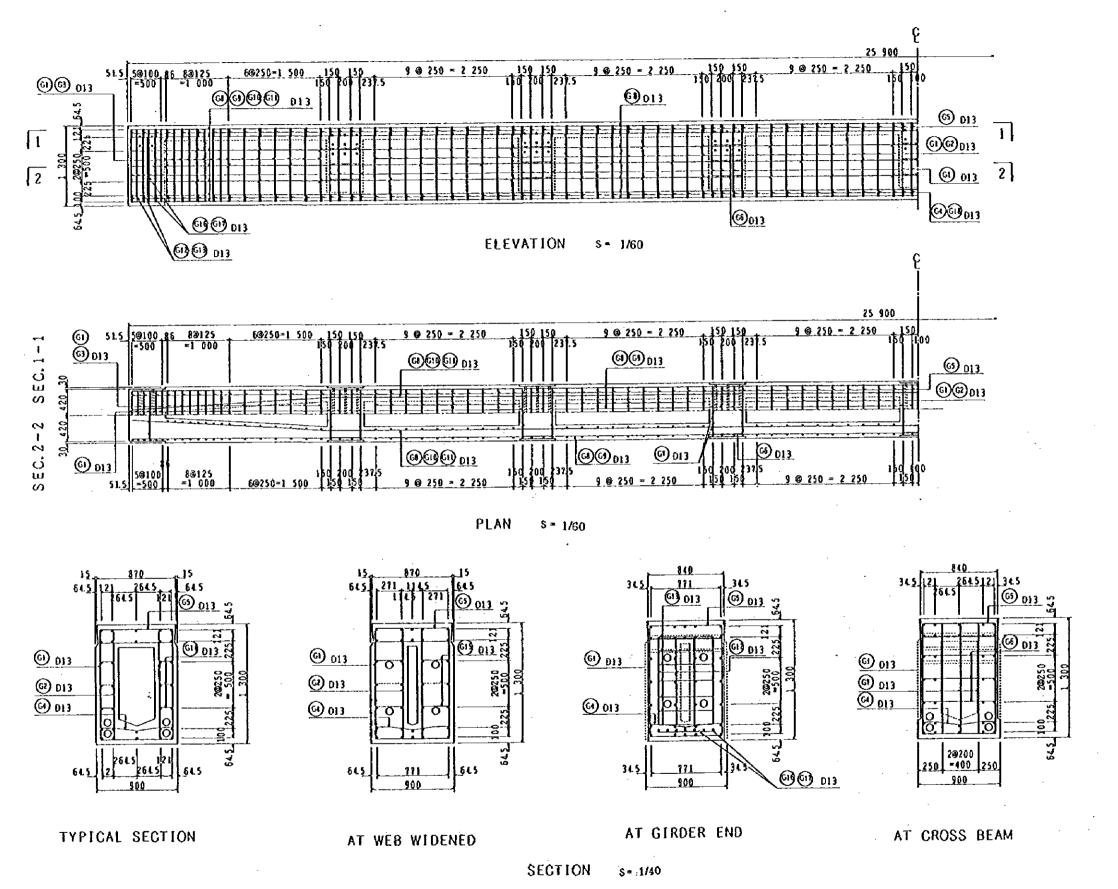
NOTE :

FOR ALTERNATIVE CONSTRUCTION JOINT, INSERT INSIDE THREADED JOINT TO HANDLE PLANTED VERTICAL BAR

SECTION S= 1/40

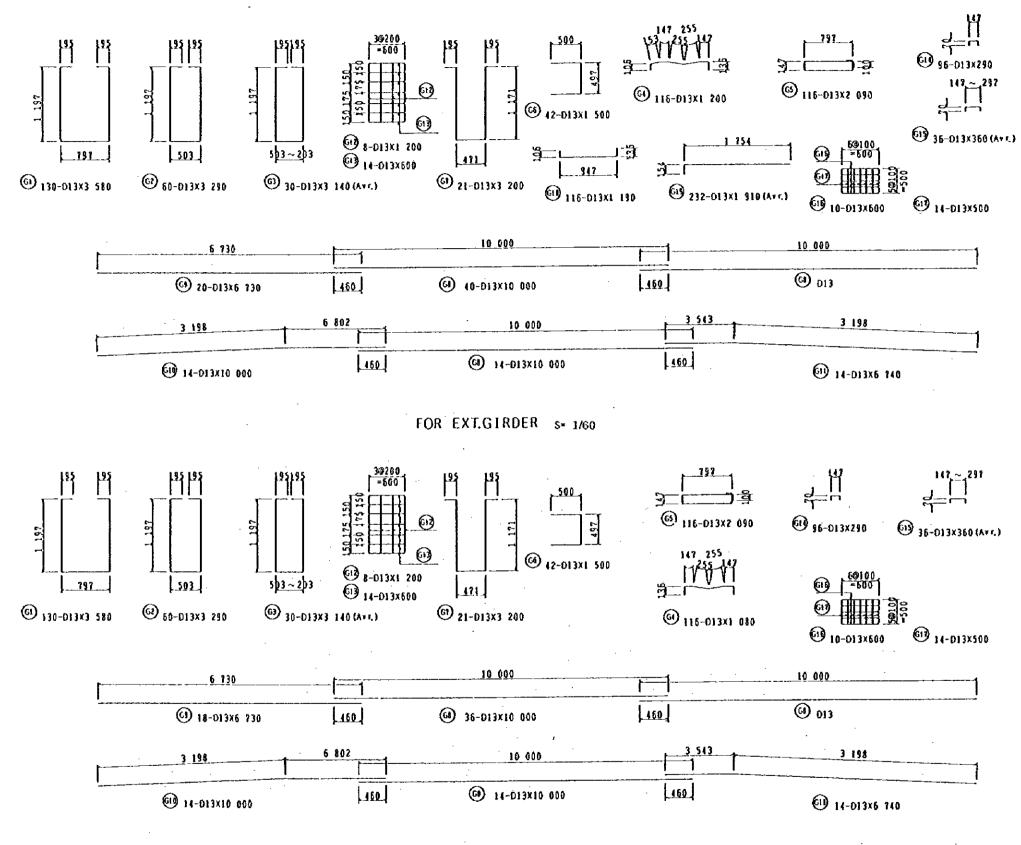
A-LINE RE-BAR ARRANGEMENT-1 (EXT.GIRDER)

- 1			
1	NOTES:	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
		(JICA)	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAIC HIGHWAY
ļ	•	JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL	TITLE RE-BAR ARRANGEMENT(1/2) AT A-LINE
		FUKUYAMA CONSULTANTS INTERNATIONAL	DATE DWGNO. B-10
ı	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	 	



A-LINE RE-BAR ARRANGEMENT-2 (INT.GIRDER)

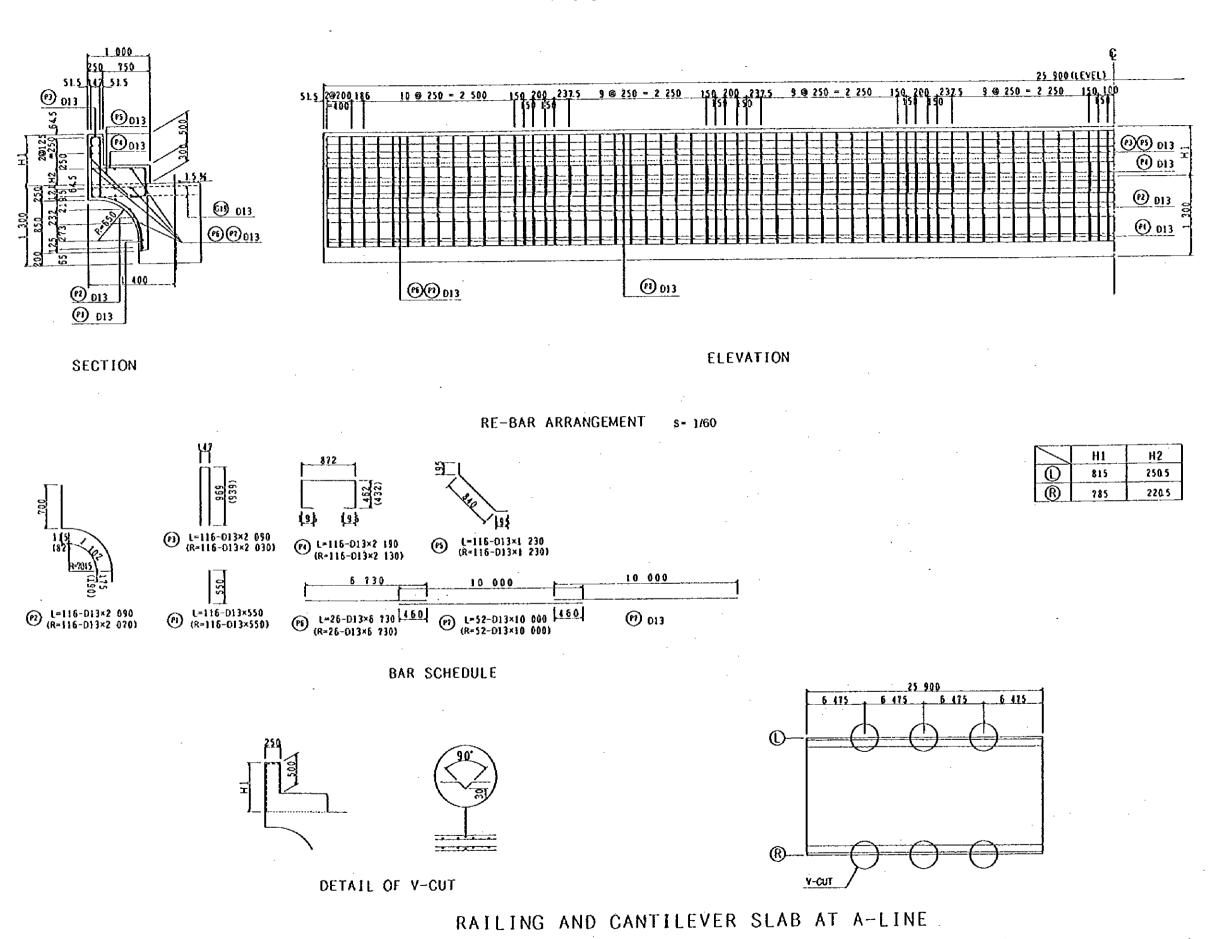
	JAPAN INTERNATIONAL COOPERATION AGENCY CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
NOIES:	(JICA) PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH RIGHWAY
	PACIFIC CONSULTANTS INTERNATIONAL  PACIFIC CONSULTANTS INTERNATIONAL  DWGNO B-11
	FUKUYAMA CONSULTANTS INTERNATIONAL DATE DWGNO. B-11

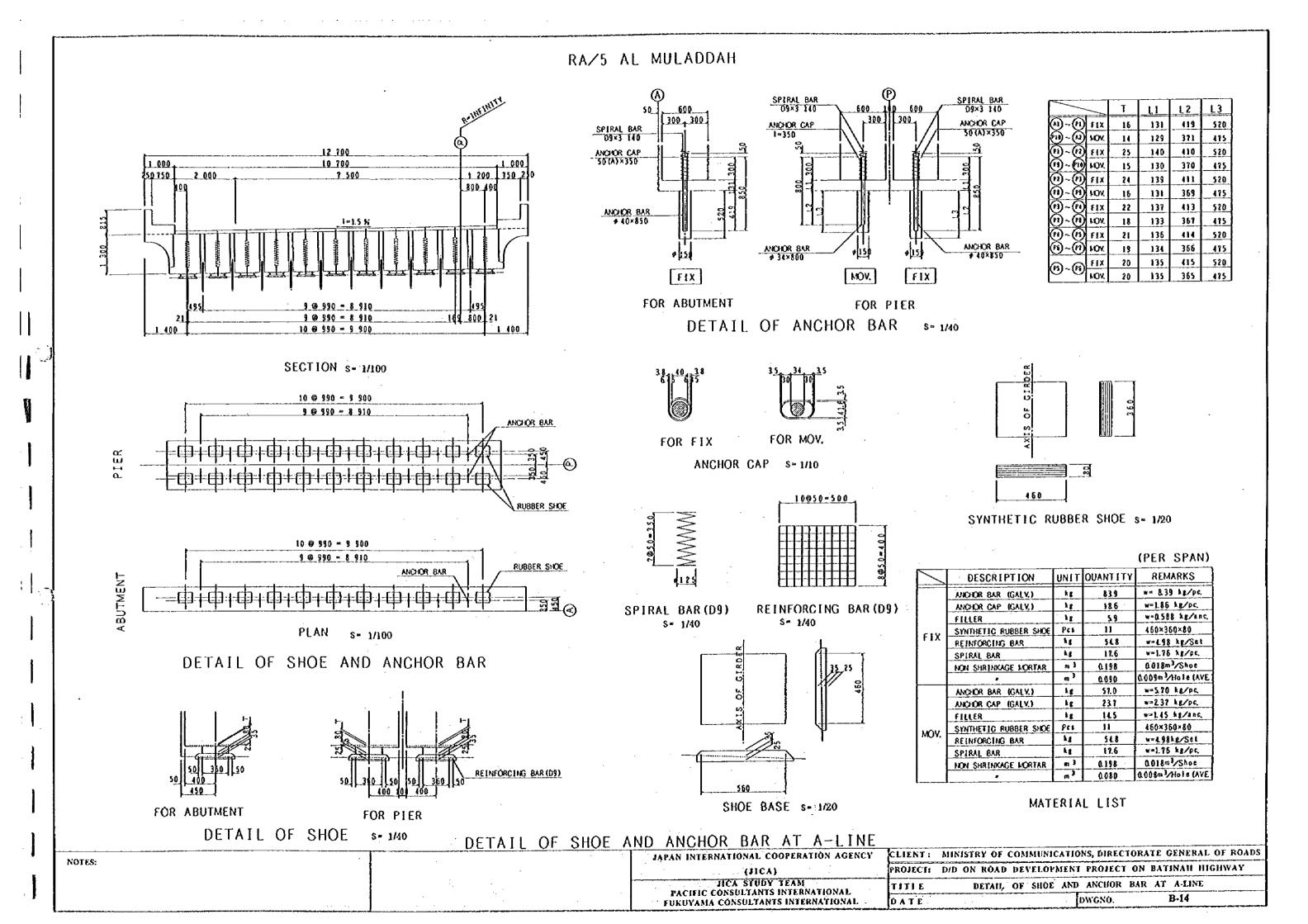


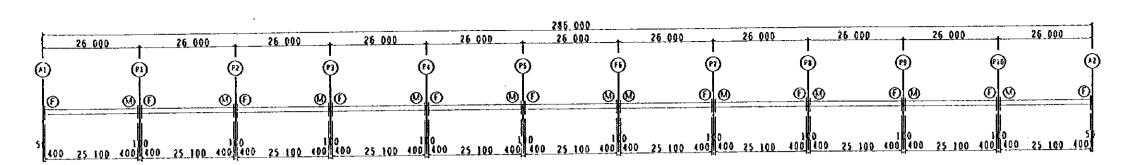
FOR INT.GIRDER se. 1/60

BAR SCHEDULE OF MAIN GIRDER AT A-LINE

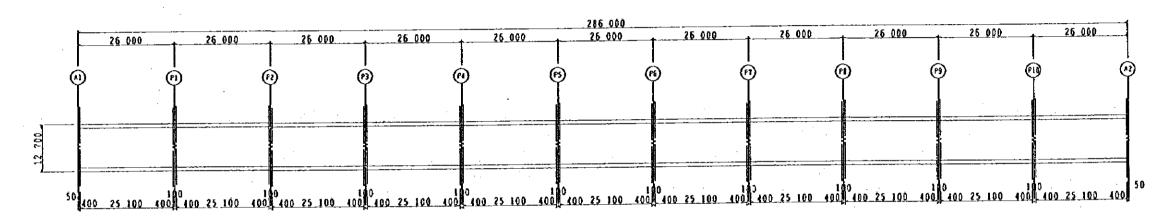
ŀ	NOTES:		JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
		1	(JICA)	PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		1.	JICA STUDY TEAM	TITLE BAR. SCHEDULE OF MAIN GIRDER AT A-LINE
			PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	DATE DWGNO. B-12
L				



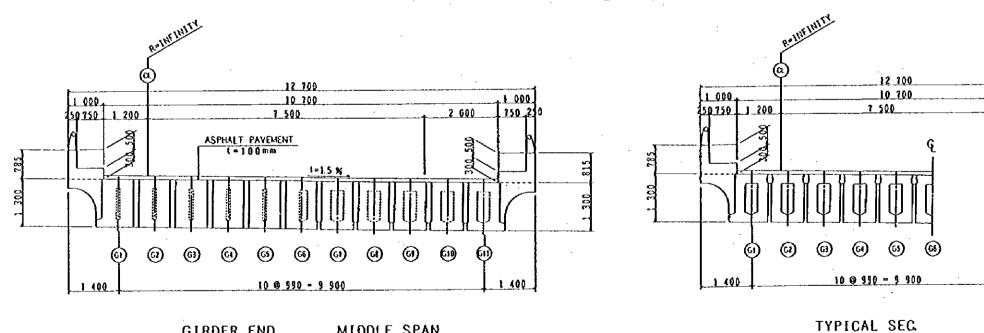




PROFILE OF BRIDGE s= 1/1000



PLAN \$= 1/1000



	GIRDER LENGTH	SPAN LENGTH	REMARKS
(4) ~ (2) (10) ~ (2)	25 902	25 102	INCLINED LENGTH
(A)~(B)	25 901	25 101	,
(9)~(P)	25 900	25 100	*

GIRDER LENGTH

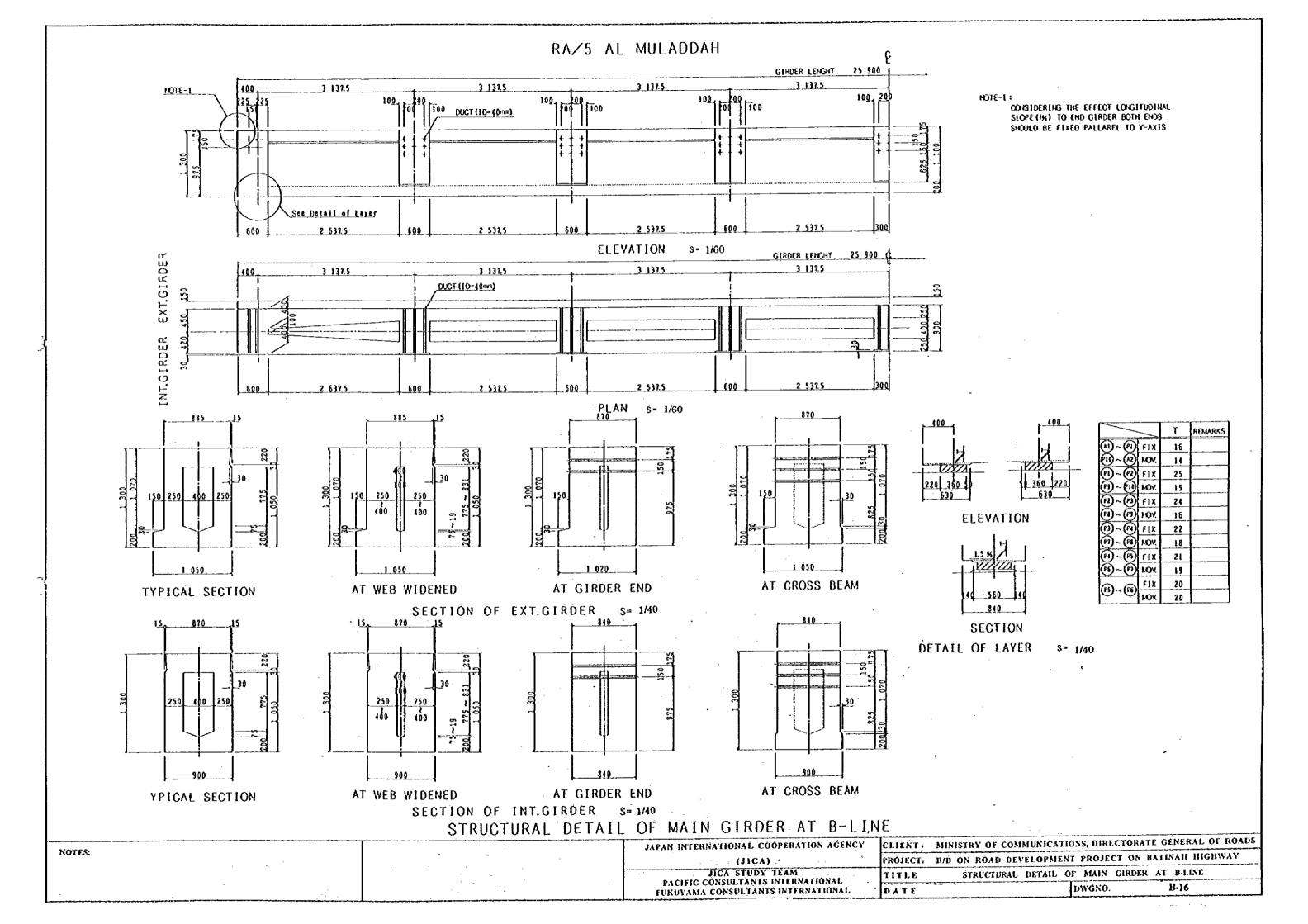
GIRDER END

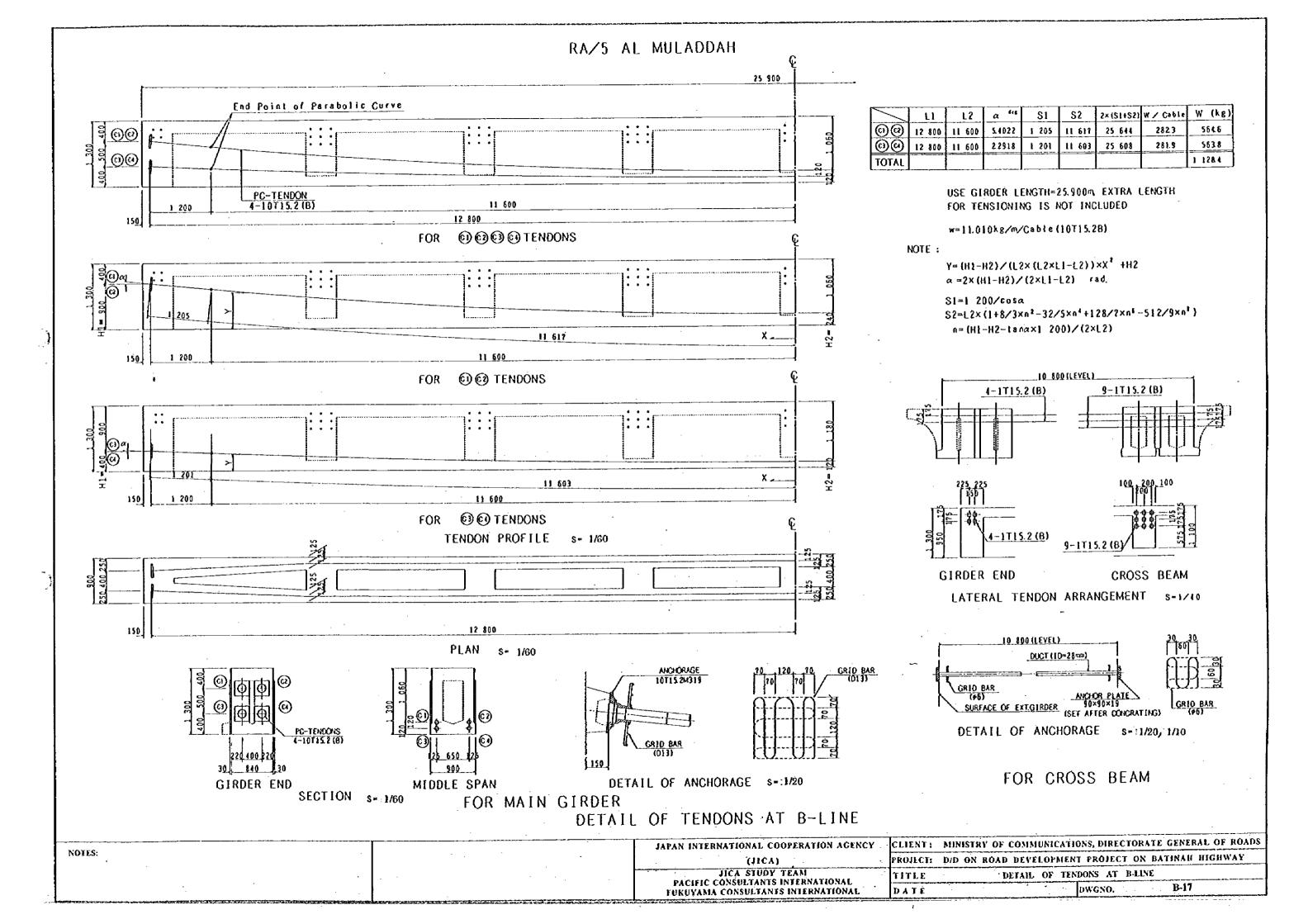
MIDDLE SPAN

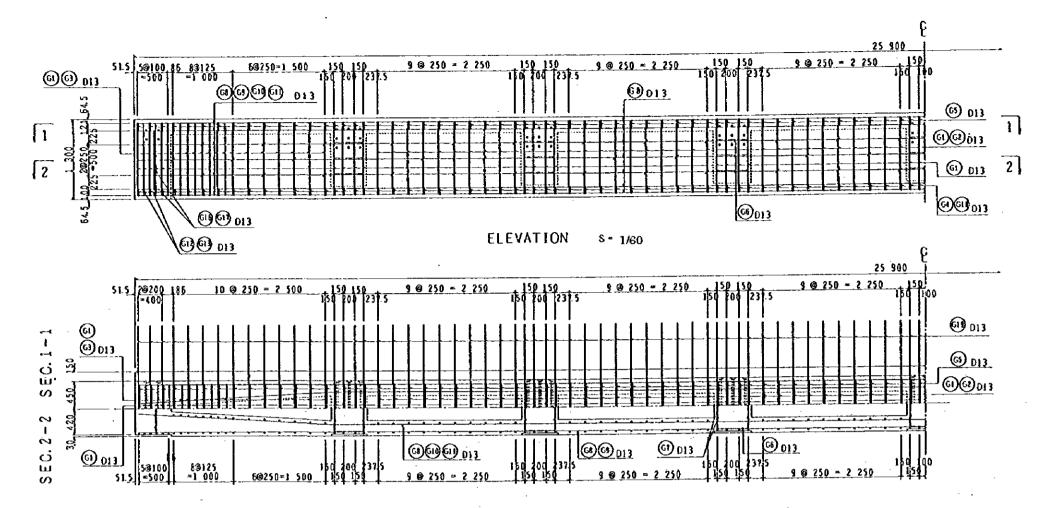
SECTION s=1/100

GENERAL VIEW OF BRIDGE AT B-LINE

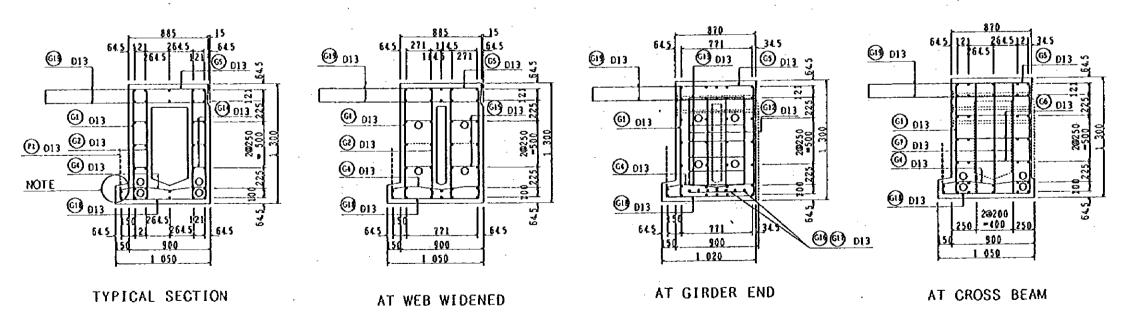
NOTES:		JAPAN INTERNATIONAL COOPER	ATION AGENCY CLIENT: MINISTRY OF COMMUNICATI	ONS, DIRECTORATE GENERAL OF ROADS
10125:	-	(JICA)	PROJECT: D/D ON ROAD DEVELOPMEN	T PROJECT ON BATINAII HIGHWAY
		JICA STUDY TEAM		F BRIDGE AT BLINE
		PACIFIC CONSULTANTS INTER	RNATIONAL DATE:	DWGNO. B-15
		The state of the s		







PLAN \$ = 1/60



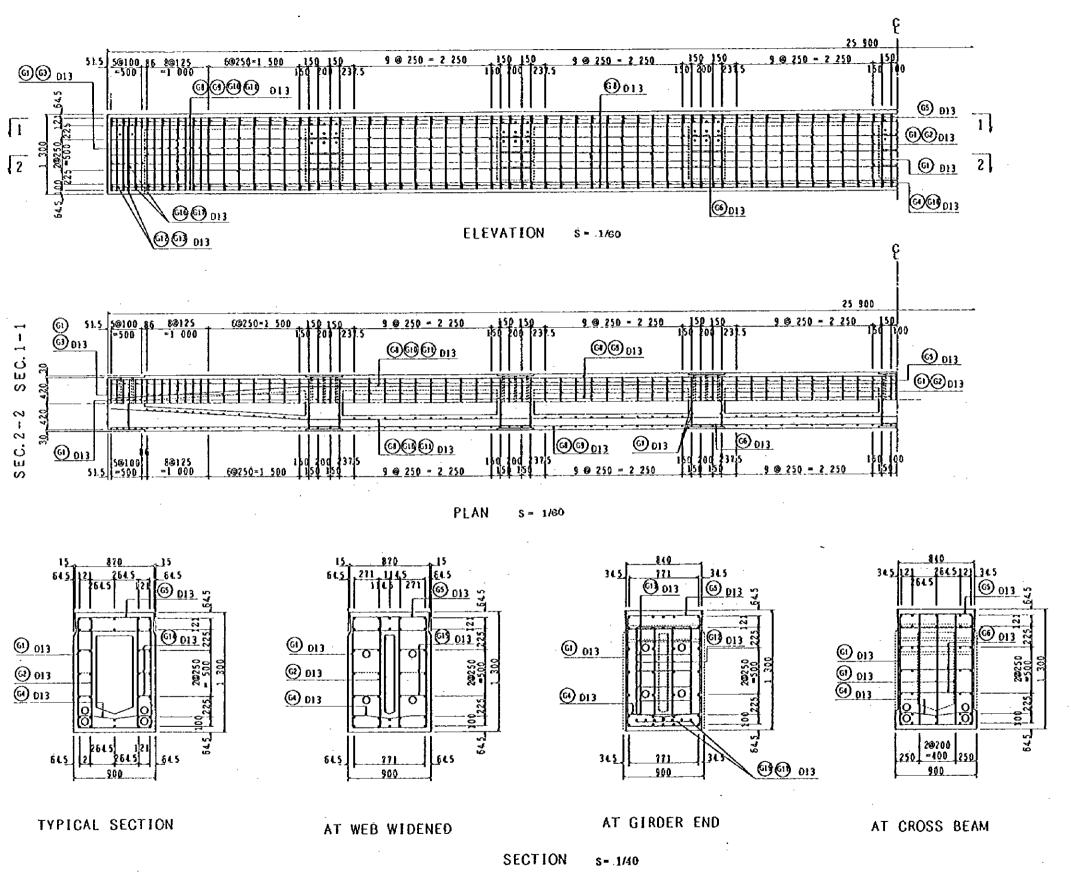
NOTE:

FOR ALTERNATIVE CONSTRUCTION JOINT, INSERT INSIDE THREADED JOINT TO HANDLE PLANTED VERTICAL BAR

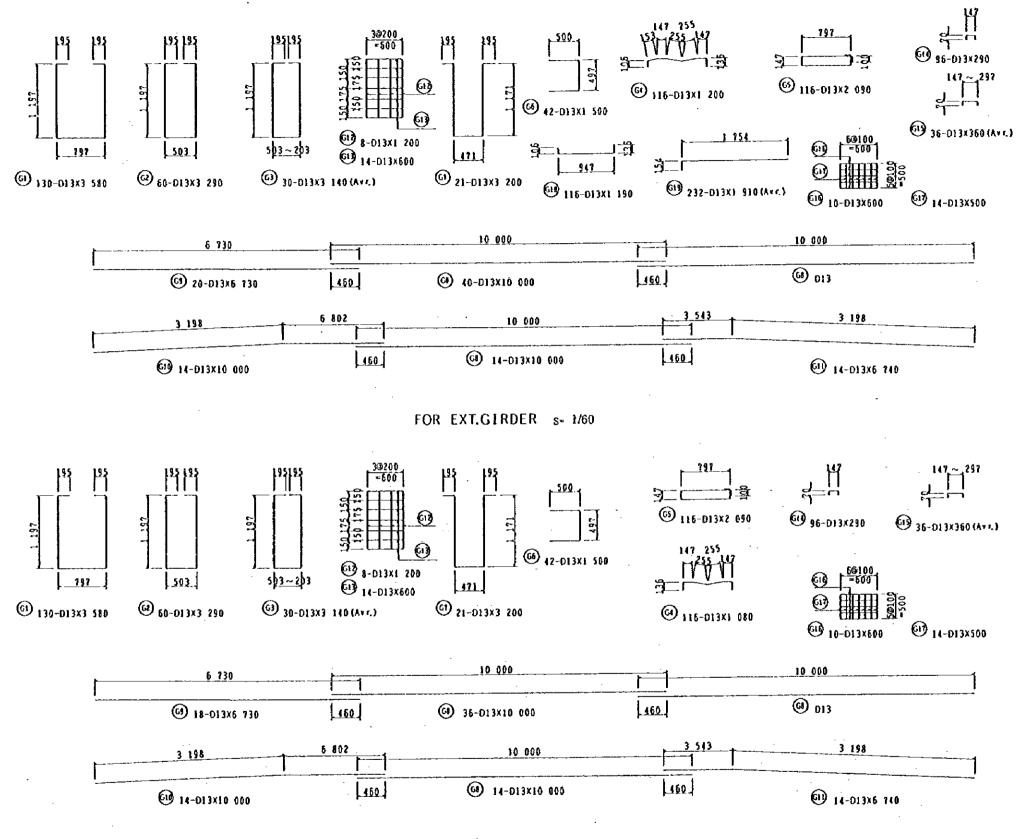
SECTION \$=:1/40

B-LINE RE-BAR ARRANGEMENT-1 (EXT.GIRDER)

		<u></u>	
	NOTES:	JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	Notes.	(JICA)	PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY
		JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL	TITLE RE-BAR ARRANGEMENT(1/2) AT B-LINE
ļ		FUKUYAMA CONSULTANTS INTERNATIONAL	DATE DWGNO. B-18
		The state of the s	



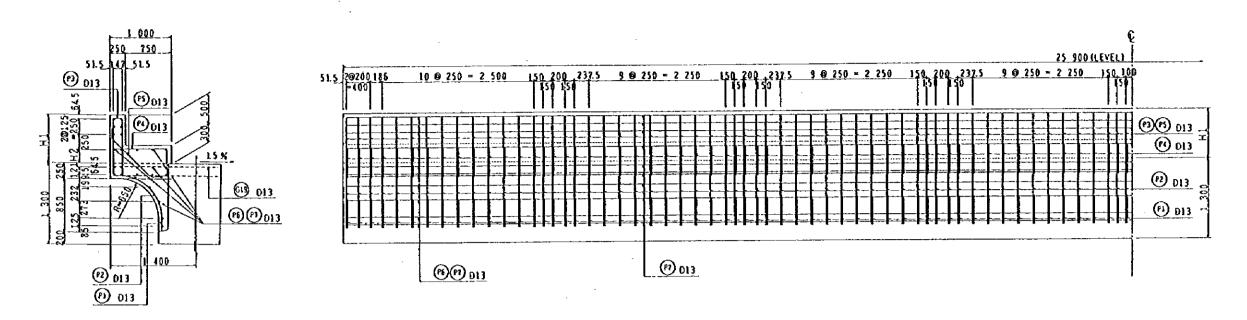
B-LINE RE-BAR ARRANGEMENT-2 (INT.GIRDER)



FOR INT.GIRDER \$=1/60

BAR SCHEDULE OF MAIN GIRDER AT B-LINE

		JAPAN INTERNATIONAL COOPERATION AGENCY	CLIENT :	MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS
	NOTES:	(JICA)	PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAH HI	
		JICA STUDY TEAM	TITLE	BAR SCHEDULE OF MAIN GIRDER AT B-LINE
i		PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL	DATE	DWGNO. B-20
. 1				



SECTION

NOTES:

**ELEVATION** 

JAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)

JICA STUDY TEAM

PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

TITLE

DATE

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

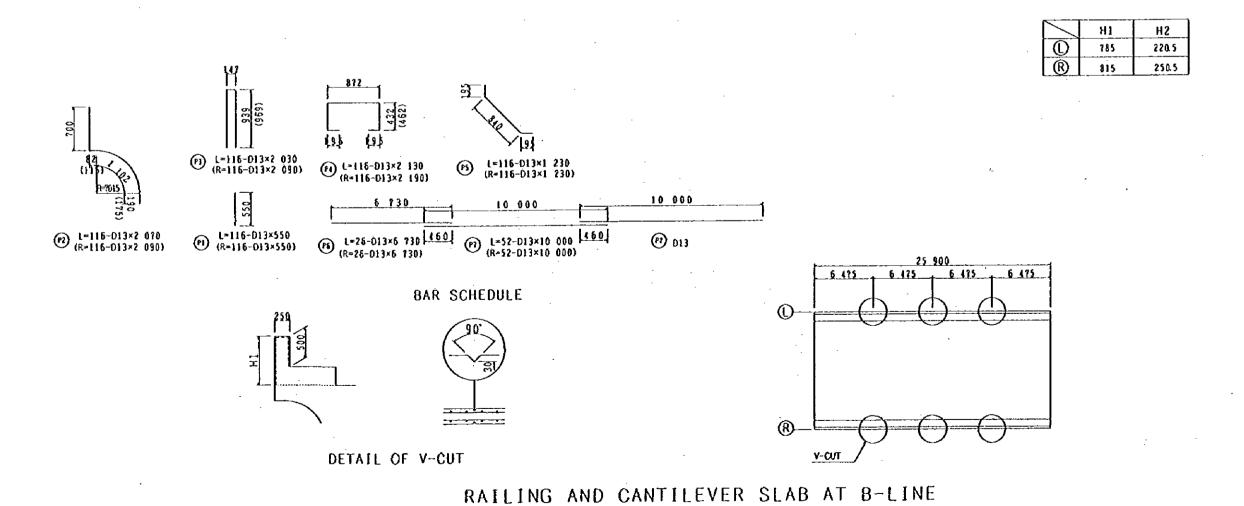
RAILING AND CANTILEVER SLAB AT B-LINE

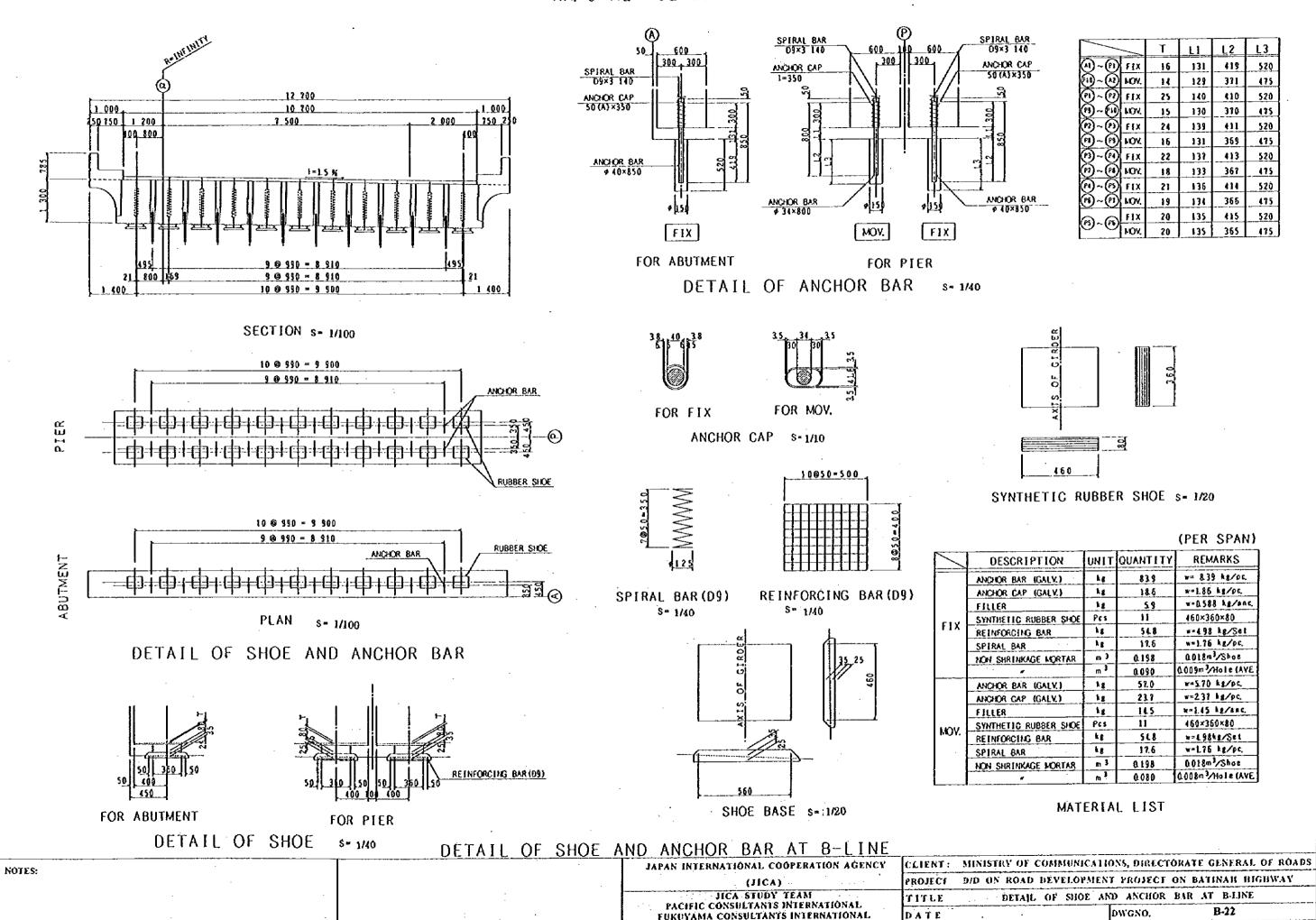
DWGNO.

B-21

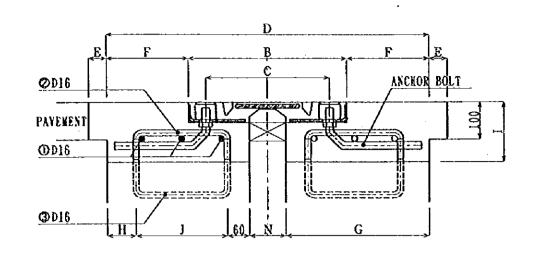
PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

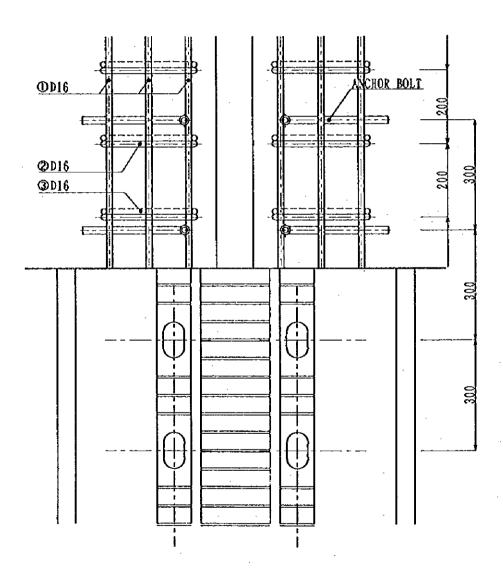
RE-BAR ARRANGEMENT S= 1/60





# AL MULADDAH





MEASUR	E DATA	<b>-</b>										
	A	В	С	D	E	F	G	Н	Ι	. J	STANDARD SPACE BETTEEN SLABS N	
PIER	54	433	340	879	50	223	390	80	160	250	100	80

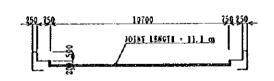
## MATERIAL LIST (PER 10 m)

ABUT

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	kg	8. 5	4.0
	<b>O</b> D 1 6	kg	93. 60	93. 60
REINFORCING BAR	<b>Ø</b> 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/m²	k g	16. 0	15.0
POLYURETHANE FORM		m	10. 0	10.0
	SAND	m¹	0. 66	0.53
TRANSIENT FILLING NATERIA	ASPHALT CONCRETE	m²	0. 73	0.60

## QUANTITY LIST

	PIER	ABUTMENT
AL KHABURAHN	2 0	4
TOTAL LENGTH	222. 0	44.4



JOINT LENGTH PER 1 PLACE

TRANSFLEX JOINT S= 1/10

JAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)

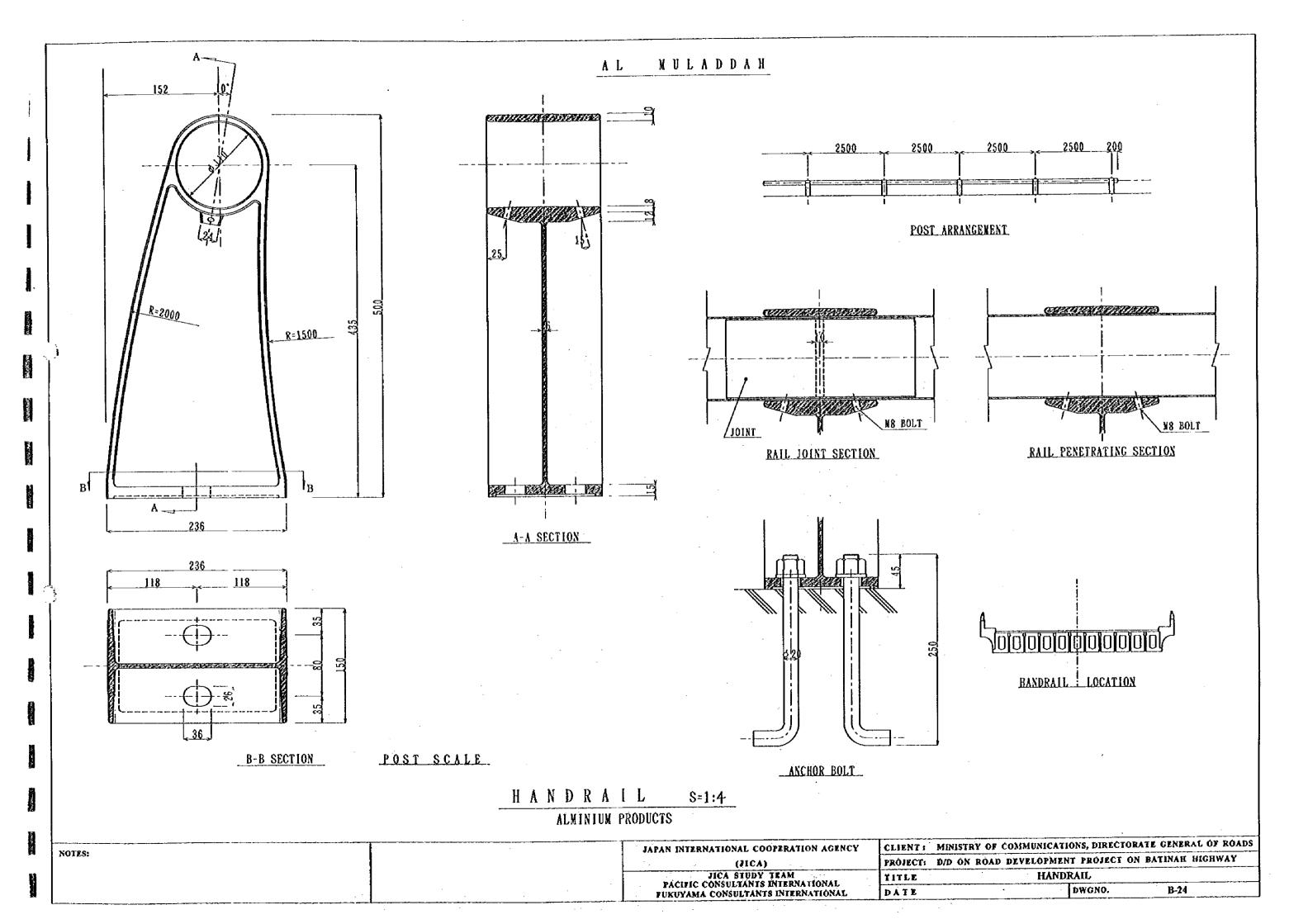
PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
PUKUYAMA CONSULTANTS INTERNATIONAL
DATE

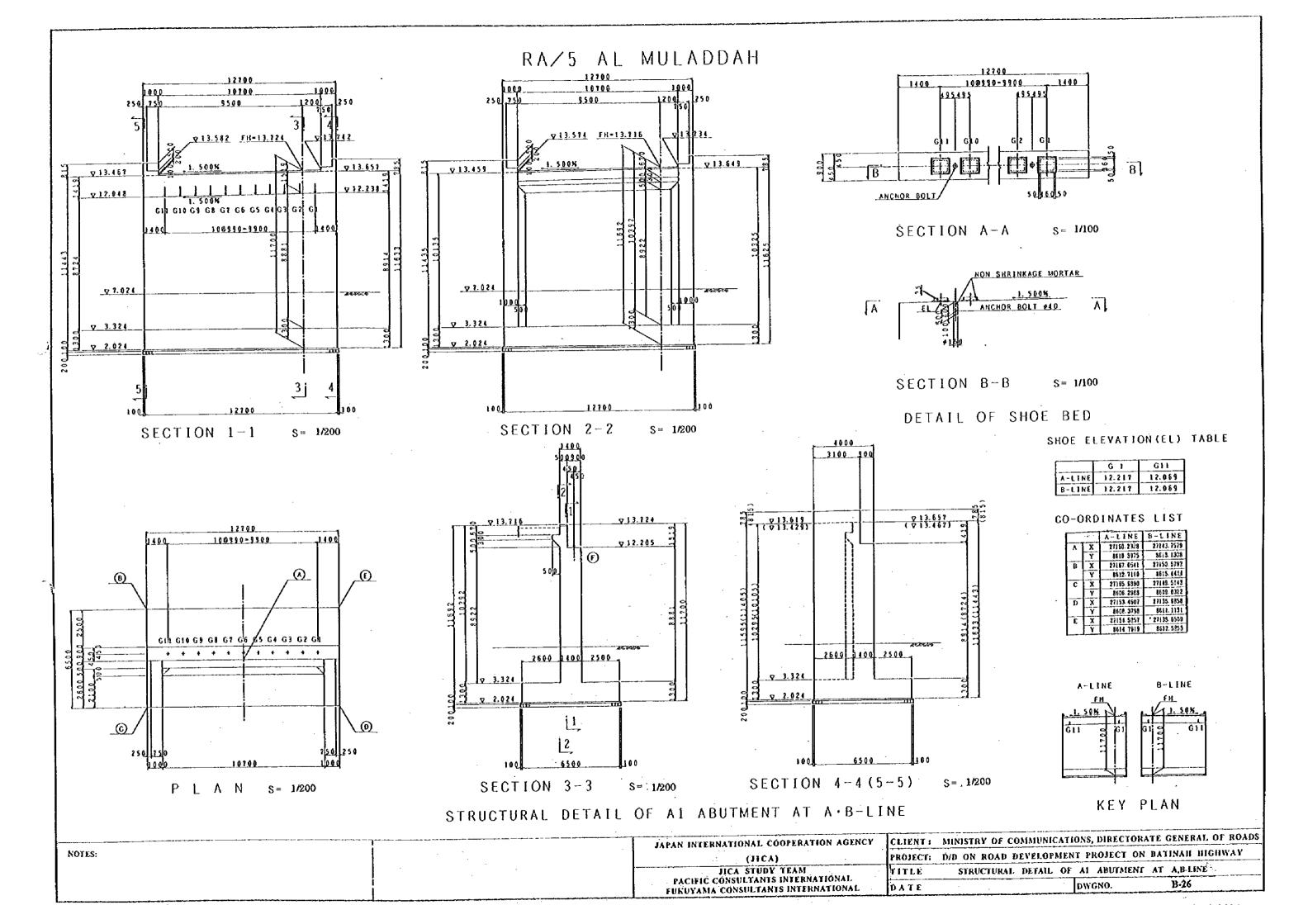
DATE

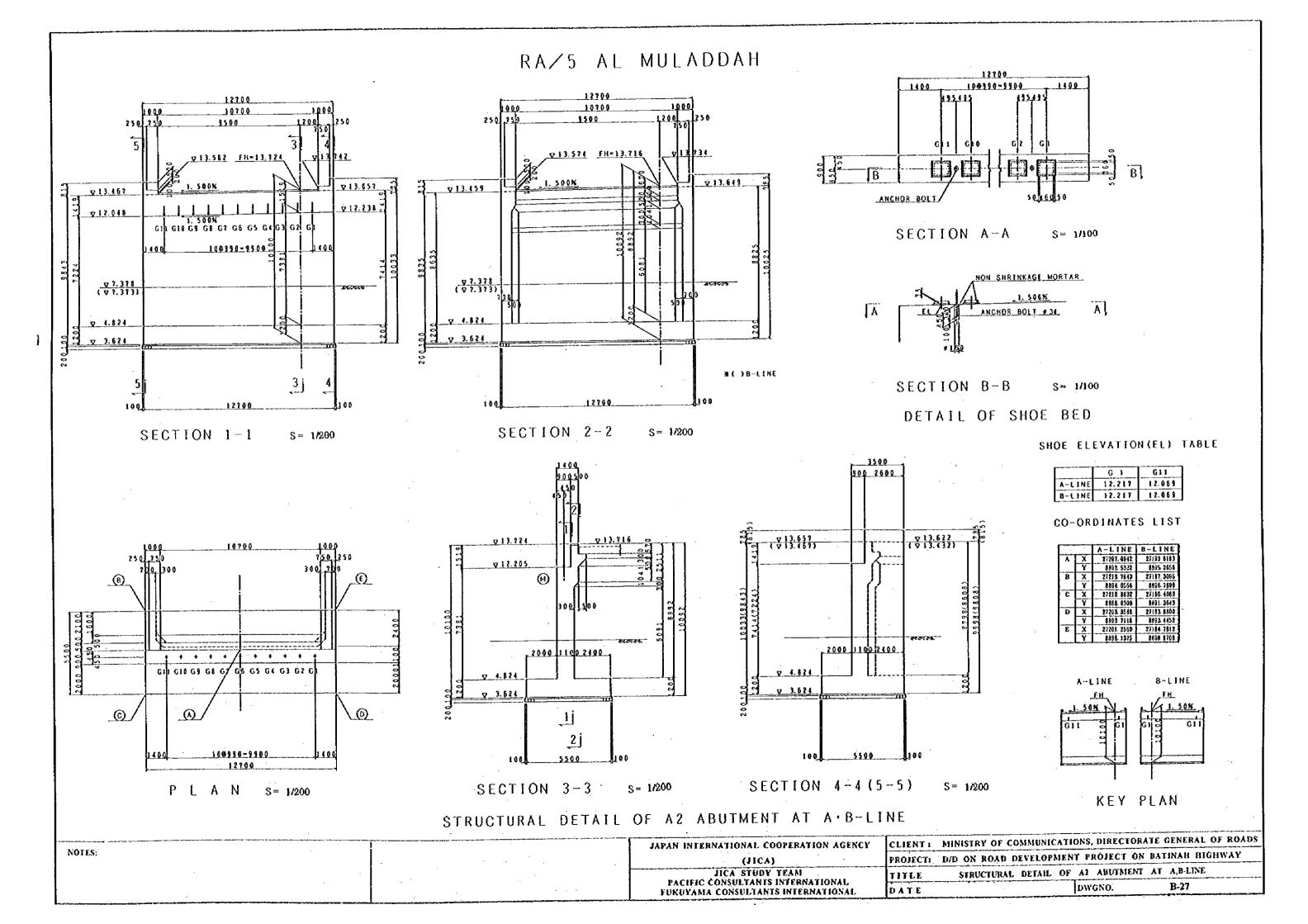
CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

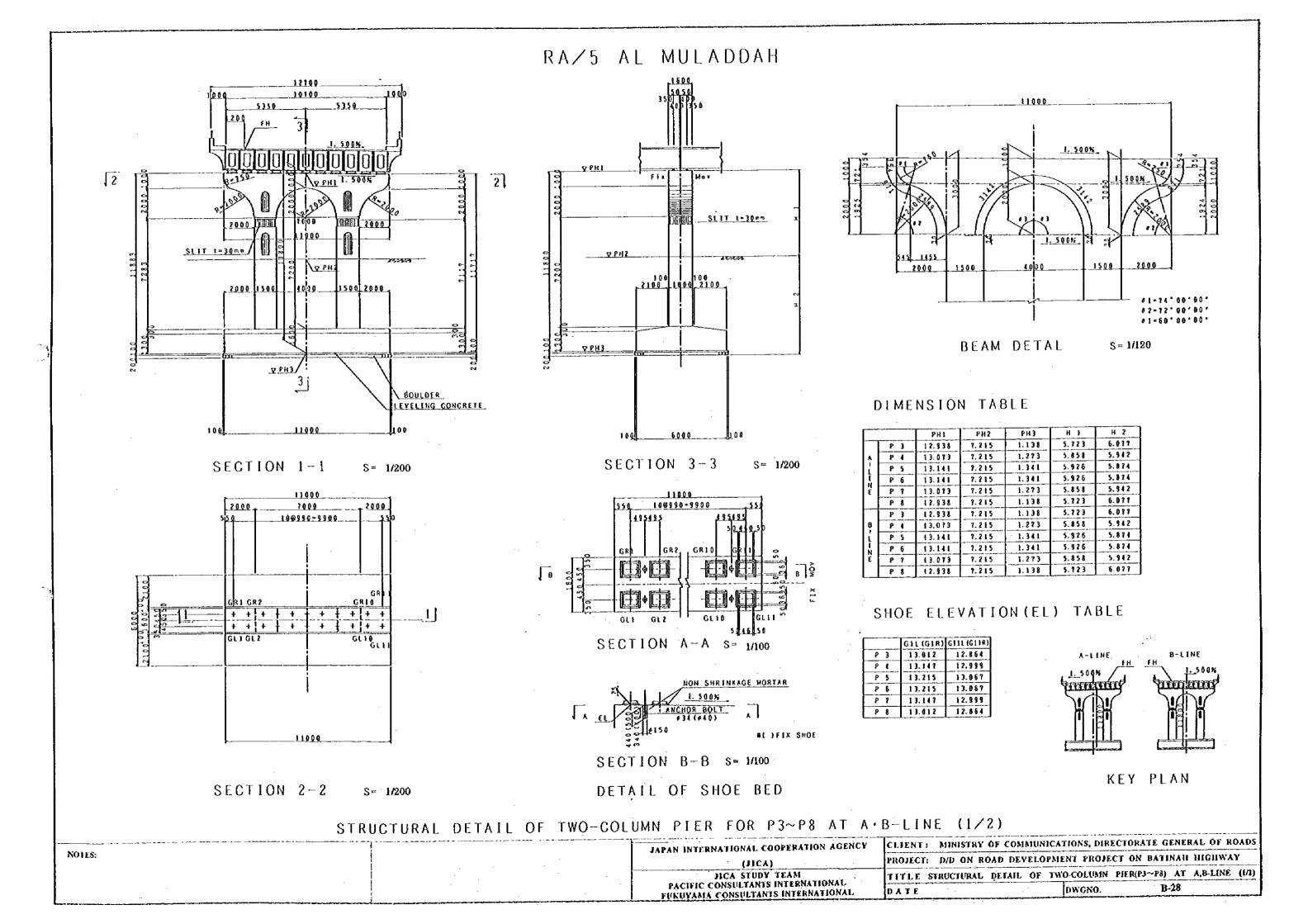
TITLE EXPANSION JOINT
DWGNO. B-23

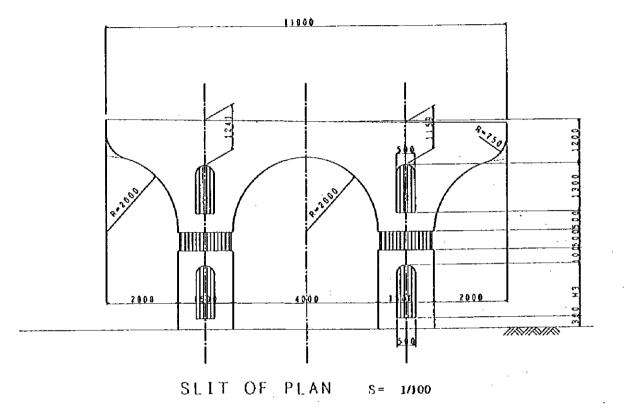


# BRIDGE DRAINAGE DETAILS (AL MULADDAH FLYOVER) CATCH BASIN (S=1:5) REINFORCING (S=1:20) CARRIAGE WAY INSTALLING LOCATION DETAIL **Ø180** STEEL PLATE COVER STEEL PLATE COVER CROSS SECTIONAL LOCATION INATALLING LOCATIONS (P8) (P9) $\langle A \rangle$ PI BOLT TO CONNECT CHAIN (S=1:1) BISS (S=1:1) (P6) (P9) (P1) (P3) JAPAN INTERNATIONAL COOPERATION AGENCY | CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS NOTES: PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY (JICA) JICA STUDY TEAM PACIFIC CONSULTANTS INTERNATIONAL FUKUYAMA CONSULTANTS INTERNATIONAL BRIDGE DRAINEGE DETAILS (AL MULADDAH) TITLE DWO. NO.





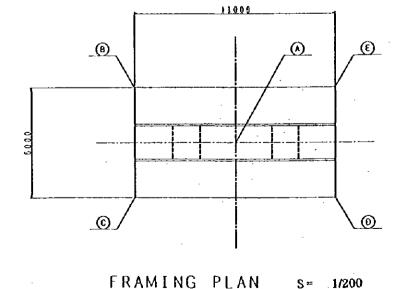




DIMENSION (H<sub>3</sub>) TABLE

	A-LINE	B-LINE
Р 3	1523	1523
P 4	1658	1658
P 5	1726	1726
P 6	1726	1726
PŤ	1558	1658
P &	1523	1523

CO-ORDINATES LIST



							<del></del>
			Λ	В	C	Đ.	Ε
	P3	X	27173 0192	27178, 9304	27177.8473	27167. DS55	27368 E199
		Ÿ	8687. 3433	8569-4015	8683 4825	8695, 2950	\$691.2639
A	P4	X	27177. 2793	27183, 1965	27182 2374	27171.3561	17172 3332
1	L_	Y	8712 9919	8715 0501	8769 1312	8719.9336	0715 S525
•	PS	Х	27181. 535-5	27187. 4506	27186 4675	27175 1112	27)26-5933
L.		Y	8738. £495	8740. 6587	8734_1165	8756-18:2	4742 5911
ı j	P6	X	27185. 1935	27191.7107	27190 7276	27175 8765	27:80.8591
×		Y	8764 2091	B766. 3474	6760 4284	8765.2308	E768 6497
E	P7	Х	27190 9537	27195 9709	· 27131 9578	27134, 1354	27185 1195
		Y	8789-9377	8791. 996G	8786. <b>2</b> 771	8787. 1791	8753 7633
	F8	X	27194-3138	27200 2319	27199 \$473	27188. 5865	27159.37.7
		Ÿ	8815. 5863	8317. 6446	8811.7257	£3 3.5220	6814 4.69
	P3	Х	27156-5384	27162-4556	27161- 4724	27158 52:1	27151. E043
		Ÿ	8690 0766	8692 1349	8688 2:60	8558 5183	\$693.597\$
В	P4	X	27160.7985	27166. 7157	27163 7326	21154.8612	27155, 8643
. 1		Y	8715 7253	8717. 7835	4711.2556	£743 £873	8713 5859
1	P\$	X	27165, 6586	27)24. 9758	27169.25:7	27 (59. 1414	27150 1245
L		Y	8741 3735	£743-4321	1737.5133	8709. 8156	£745. 2313
T Ì	P6	X	27169 3187	27175 2359	27174 2528	27161.4013	27 64 3846
N		Ÿ	8767. 9225	8769 8807	8763.1618	8764 8642	£776. £831
ε	27	X	27173.5789	27179 4950	27178 5129	27167-6616	£ 158. \$447
		Ÿ	8792 6711	8794 7259	8788 8104	8799. €128	4795 5317
	₽B.	X	27177. 6390	27183 7562	27182 7731	27171-9217	27,72.9548
- 1	``	Ÿ	6818 3197	2020. 3780	8614. 4590	8316 2514	\$522. 1803
		1			القنقينة يترب		

STRUCTURAL DETAIL OF TWO-COLUMN PIER FOR P3~P8 AT A·B-LINE (2/2)

NOTES:

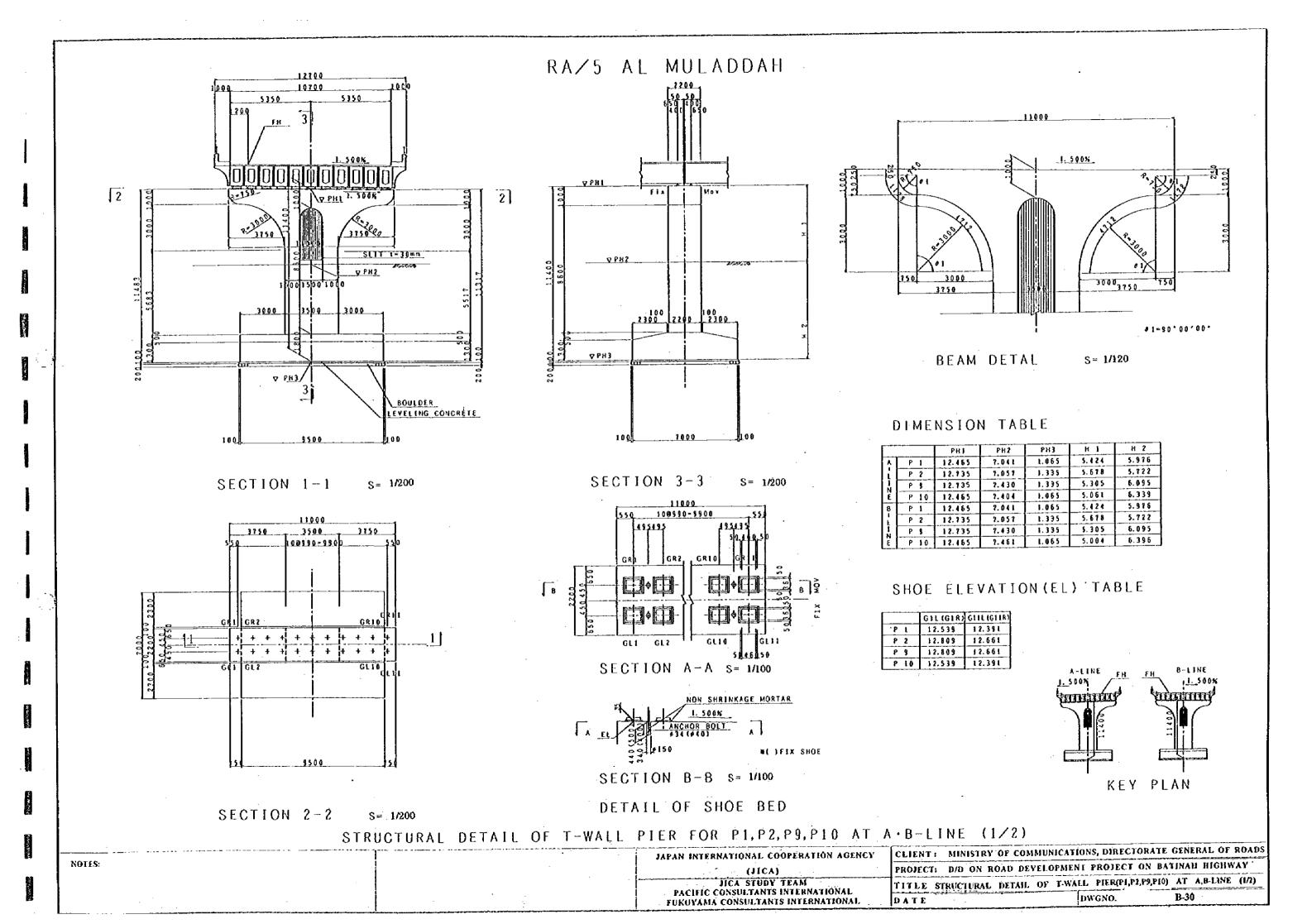
JAPAN INTERNATIONAL COOPERATION AGENCY | CLIENT | MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS (JICA)

DATE

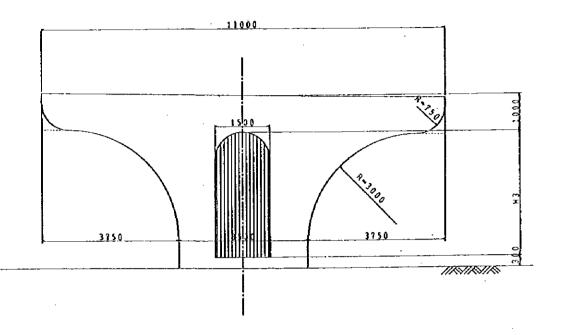
PROJECT: DID ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY

JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUKUYAMA CONSULTANTS INTERNATIONAL

TITLE STRUCTURAL DETAIL OF TWO-COLUMN PIER(P3~P8) AT A,B-LINE (1/2) B-29



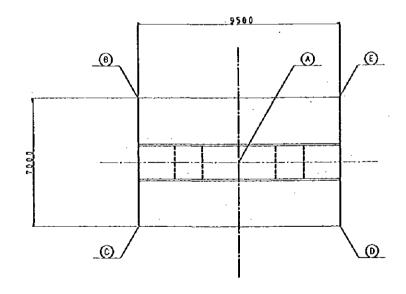
# RA/5 AL MULADDAH



DIMENSION (H3) TABLE

	A-LINE	B-LINE	
Pì	4124	4124	
PZ	4378	4378	
P 9	1005	4005	
P10	3751	3704	

SLIT OF PLAN S= 1/100



FRAMING PLAN S= 1/200

### CO-ORDINATES LIST

Γ		_	A	8	C	Ð	£
	Pì	Х	27164 4929	27159 7522	27169. 5352	27159 233E	27160 3606
A	1	Y	E638 5480	8639, 72,4	8631. <b>61</b> 53	\$633 3716	£640-2773
	P2	Х	27186. 7593	27174 0123	27172 8554	27163. 4537	27:64 6407
١		Ÿ	8661. E9:5	2651 3650	8557.4636	SCC0 F688	£563. 9256
Ł	Pg	X	27155.5739	27233 8332	27293 (862	27193 \$545	27194. 4616
3		Y	8248. 2343	\$613 959S	6837, 9233	6259, 5605	8845 4659
N	Piò	X	27202 8340	27208.0933	27205. 9463	27157. 5747	27158.7217
E		Ÿ	856E 8838	8869 5579	8862. 5525	6264 2591	8371-1145
	P}	X	27248.0181	27153 2774	27152 1364	27:42.7588	27143. 6058
В	:	Y	£635 7794	\$541.453B	8534 5484	£636, 1955	8643 Bi04
1	₽2	X	27152 2782	21157.5975	27155 3965	27147-0:09	27148. 1659
1		¥	8584 4283	8687, 1924	8680. k979	£651. 7536	2663 E589
L	F9	Х	27182: 6993	27:87-3584	27185. 2164	27178 8338	27177. 5367
I		Y	8843 A585	8616 6427	6939 797 <b>3</b>	6849. 2239	8849 1993
N	914	Х	27186 3592	27.91.5185	27193. 4745	27181-9999	27132 2469
E	1	Y	8969.6169	2872 2513	6565. 3259	\$866 S425	8873 8479

STRUCTURAL DETAIL OF T-WALL PIER FOR P1, P2, P9, P10 AT A · B-LINE (2/2)

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY

(J1CA)

PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINALI BIGHWAY

JICA STUDY TEAM
PACIFIC CONSULTANTS INTERNATIONAL
FUXUYAMA CONSULTANTS INTERNATIONAL
FUXUYAMA CONSULTANTS INTERNATIONAL

DATE

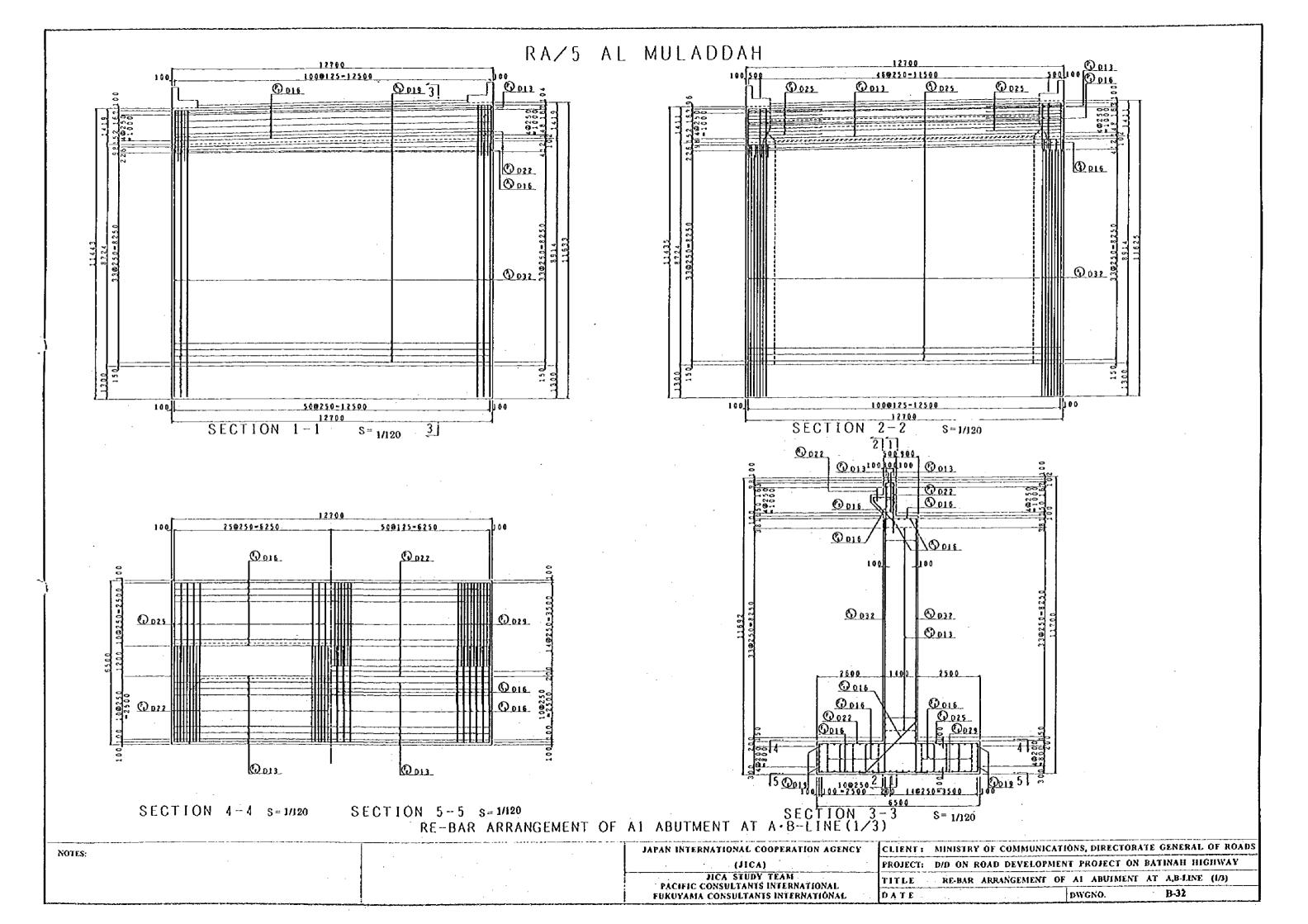
CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS

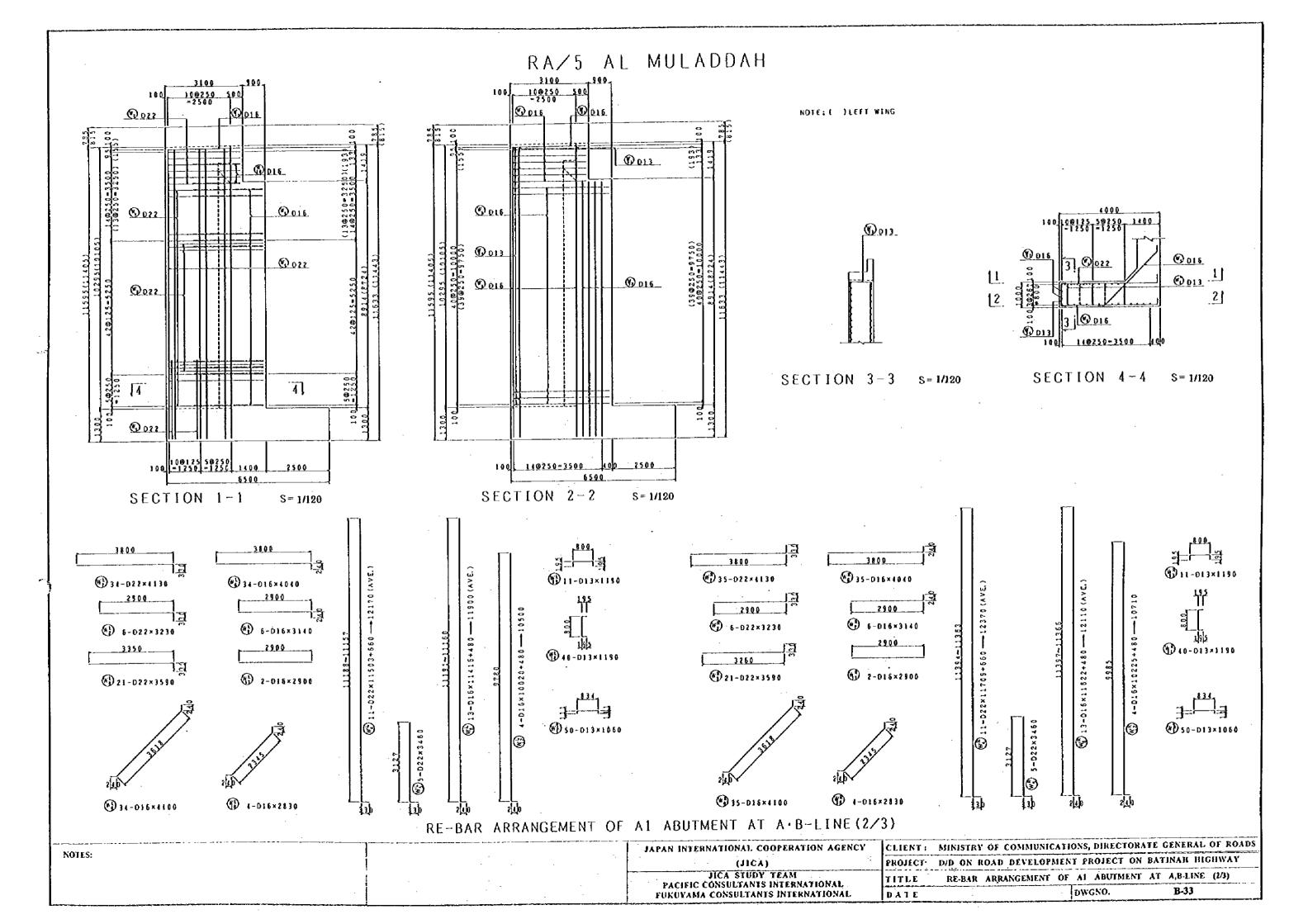
TITLE STRUCTURAL DETAIL OF T-WALL PIER(PI,P2,P9,P10) AT A,B-LINE (1/2)

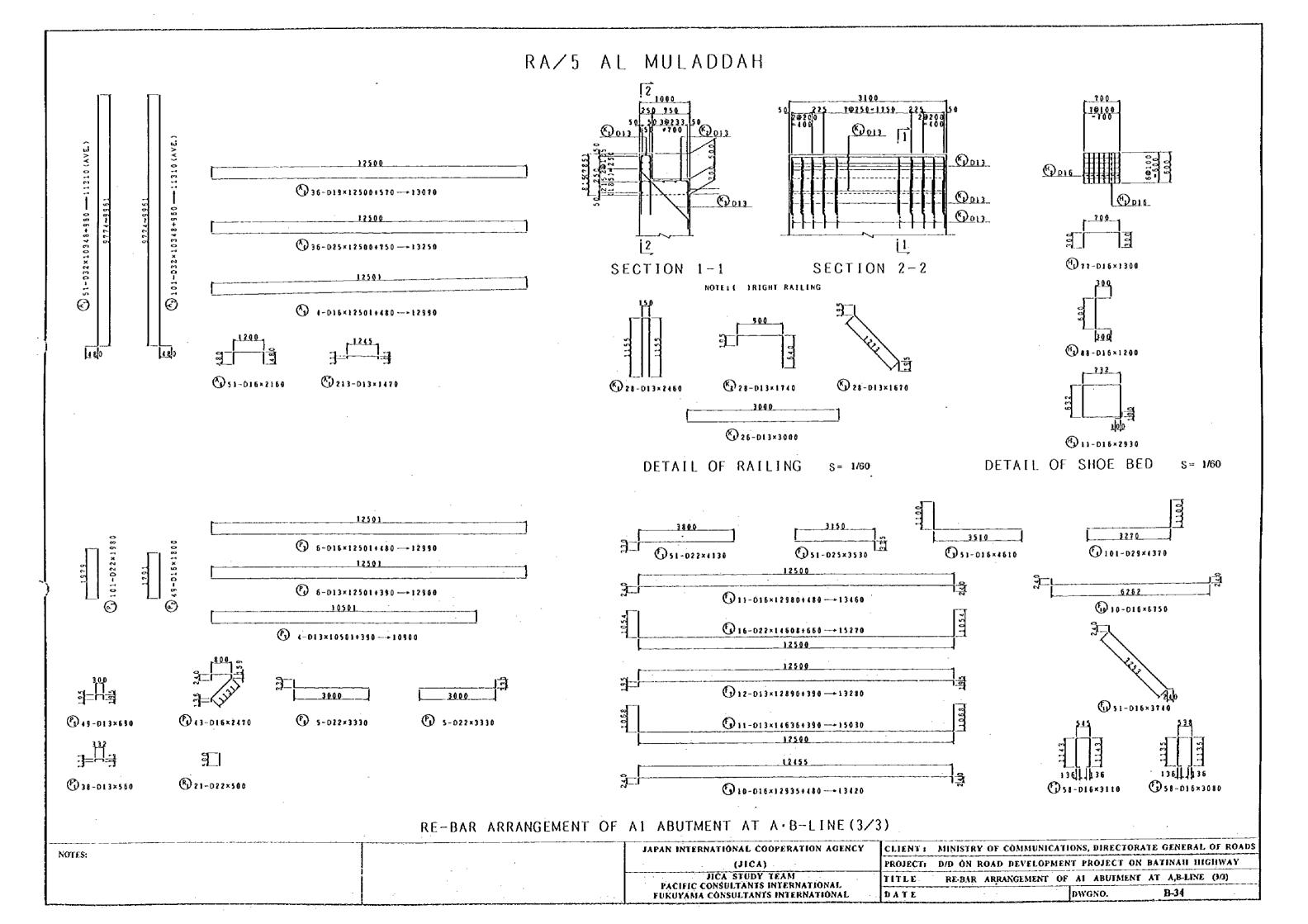
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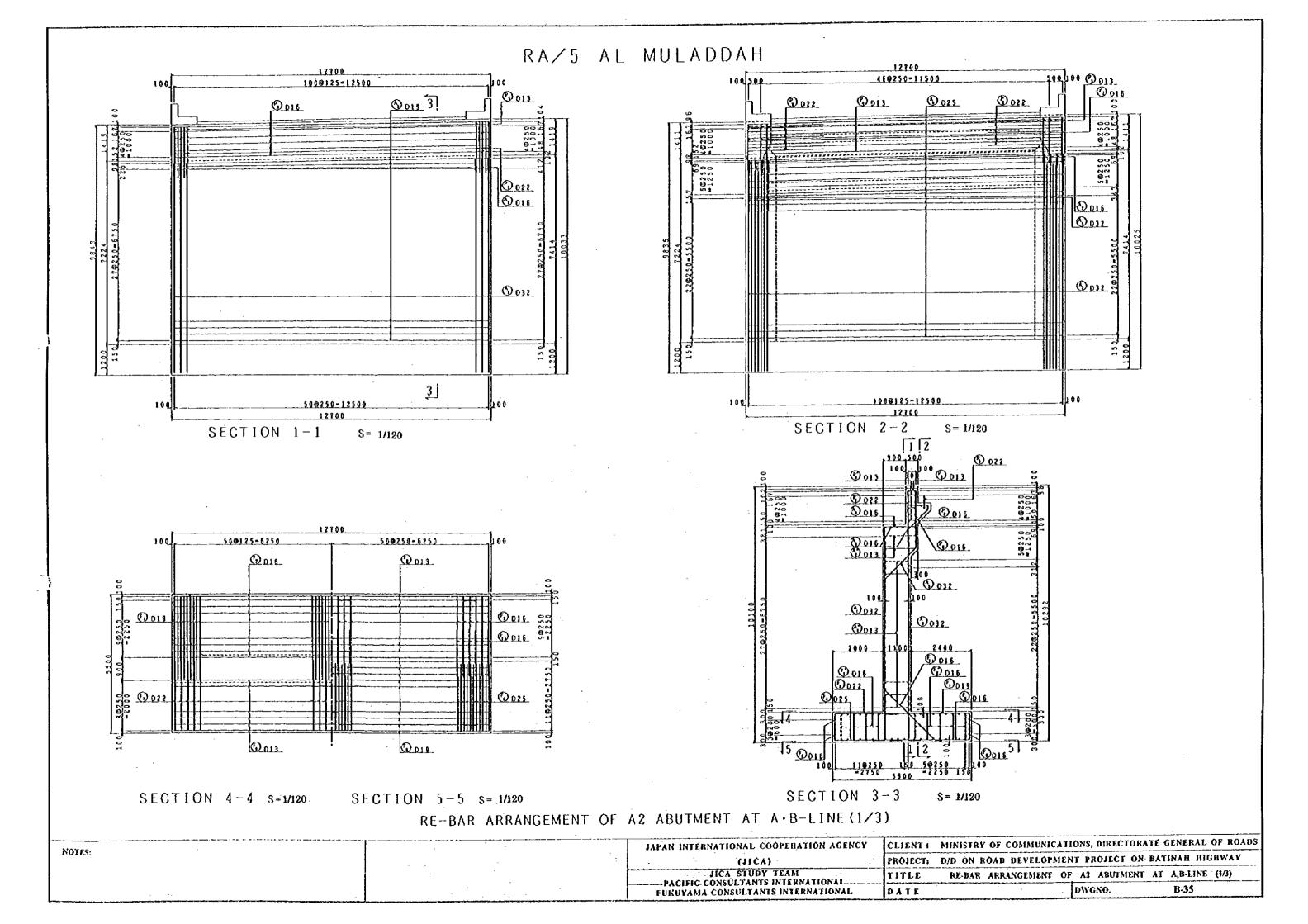
DATE

DATE

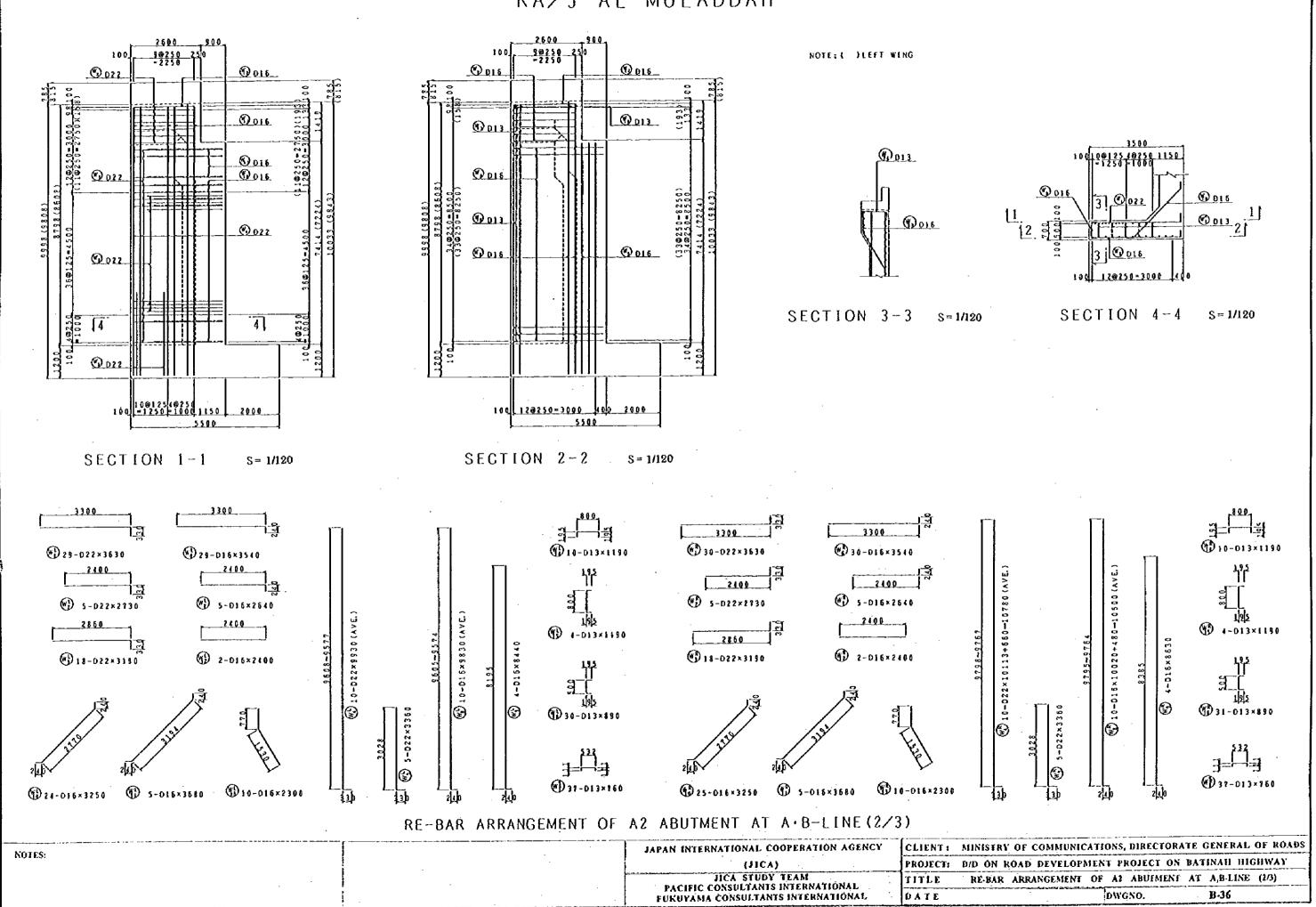


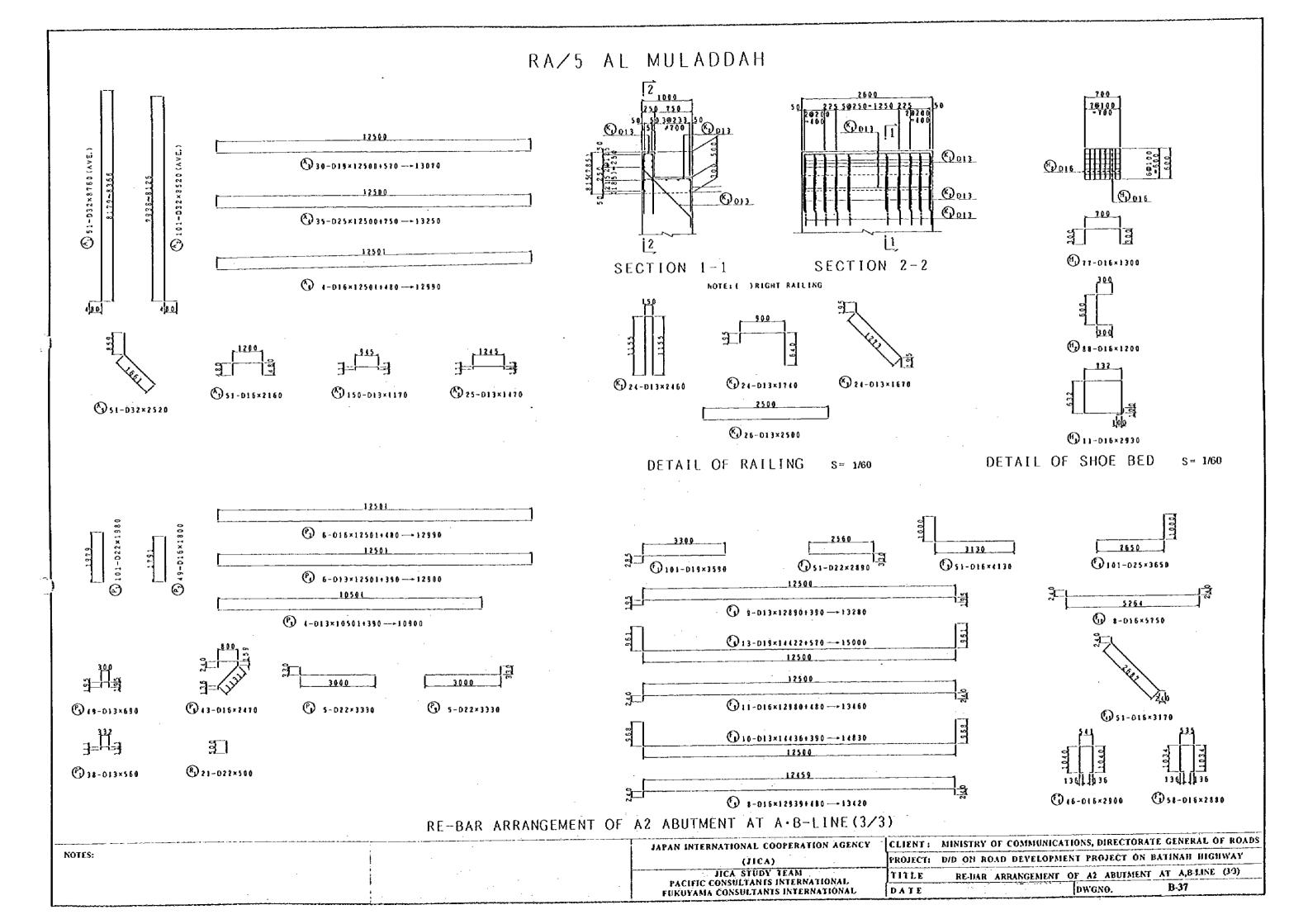


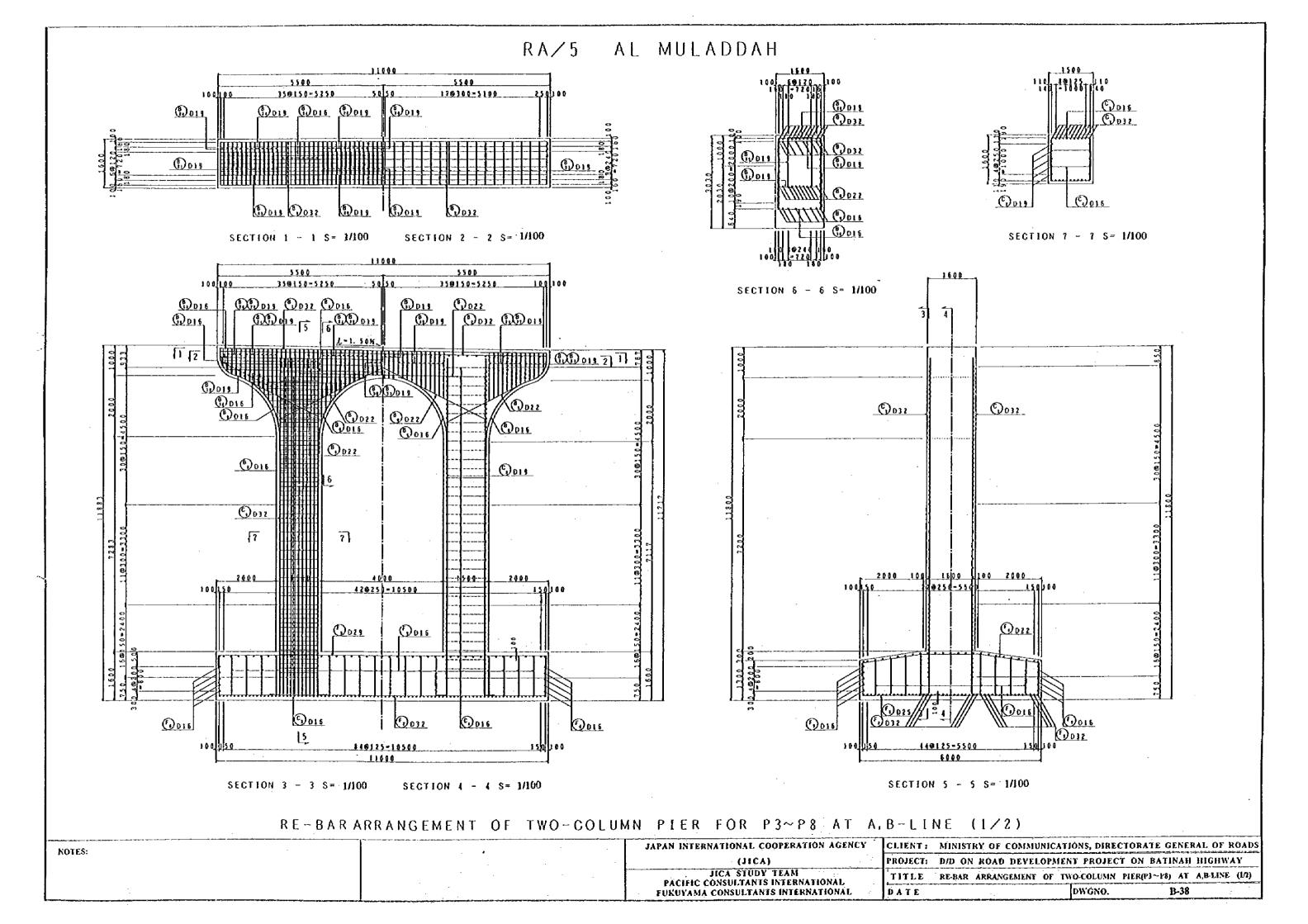


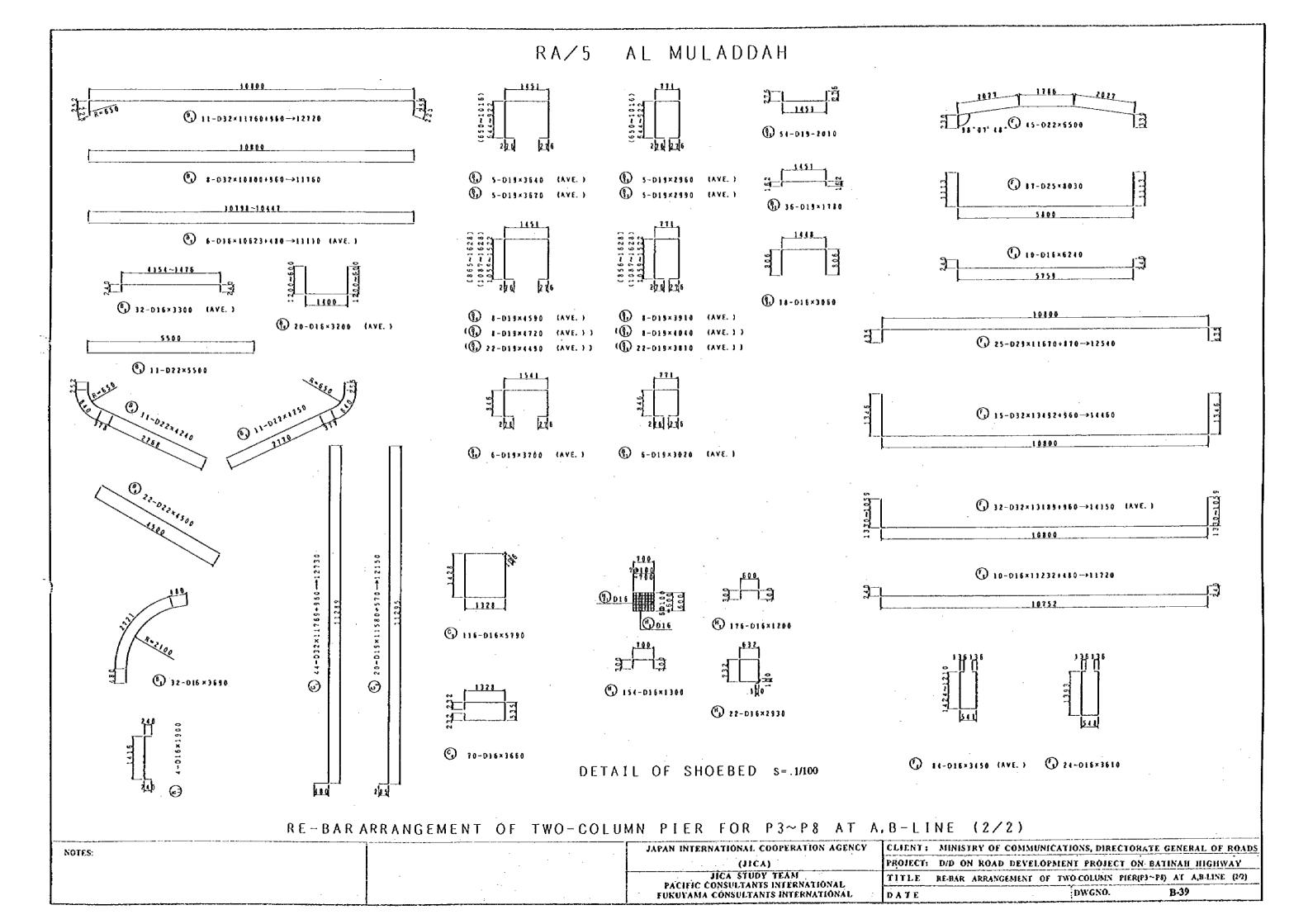


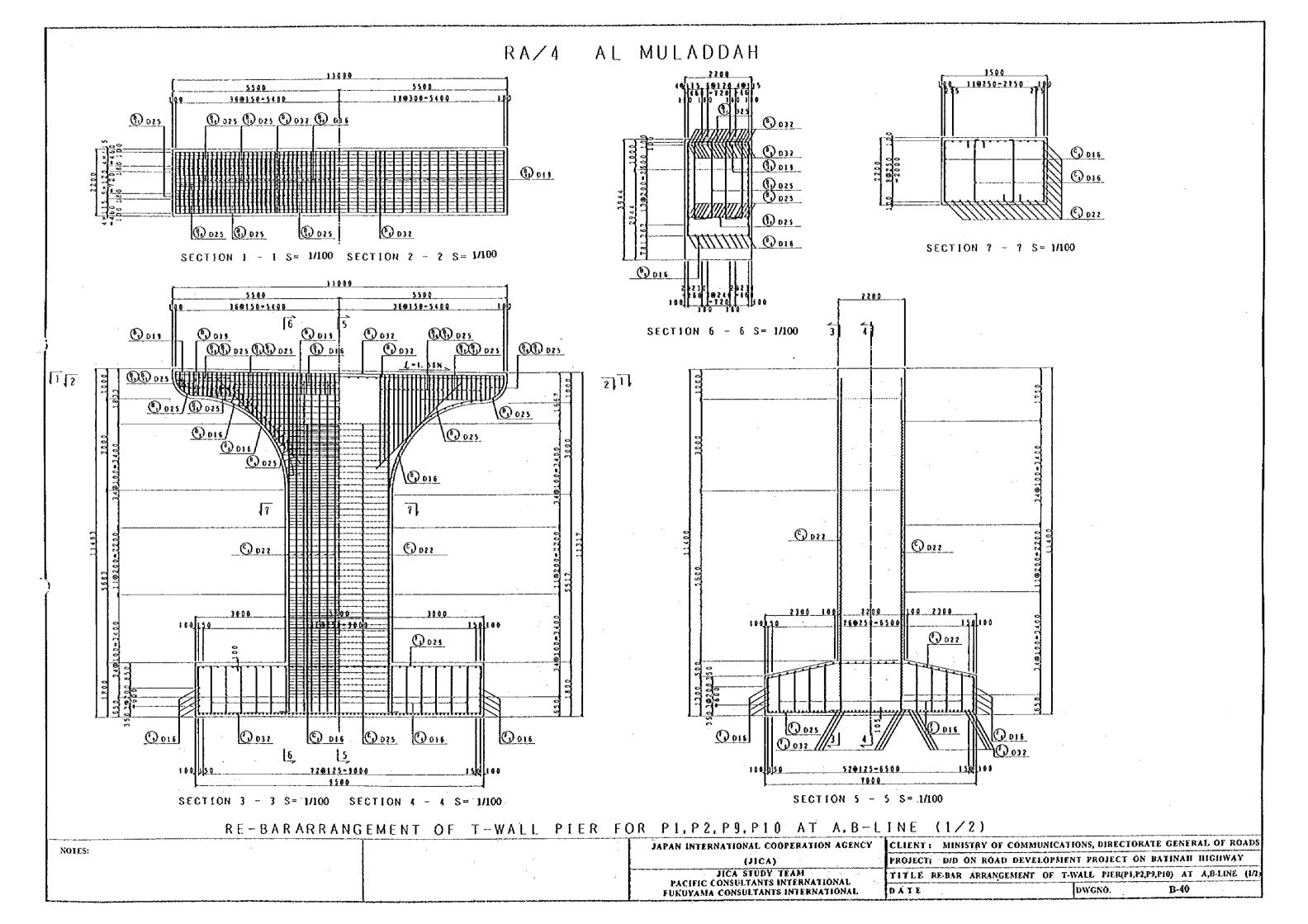
### RA/5 AL MULADDAH

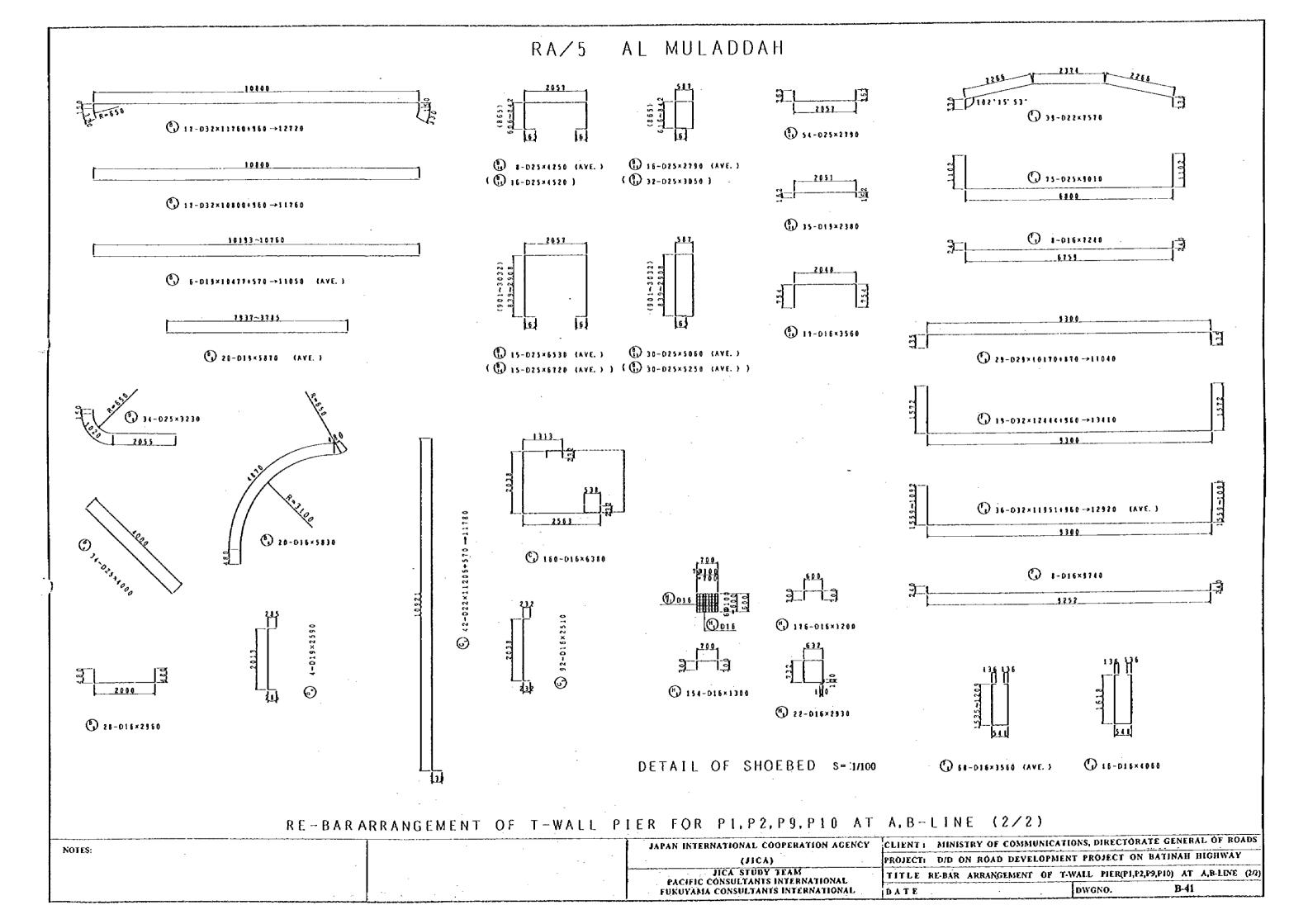


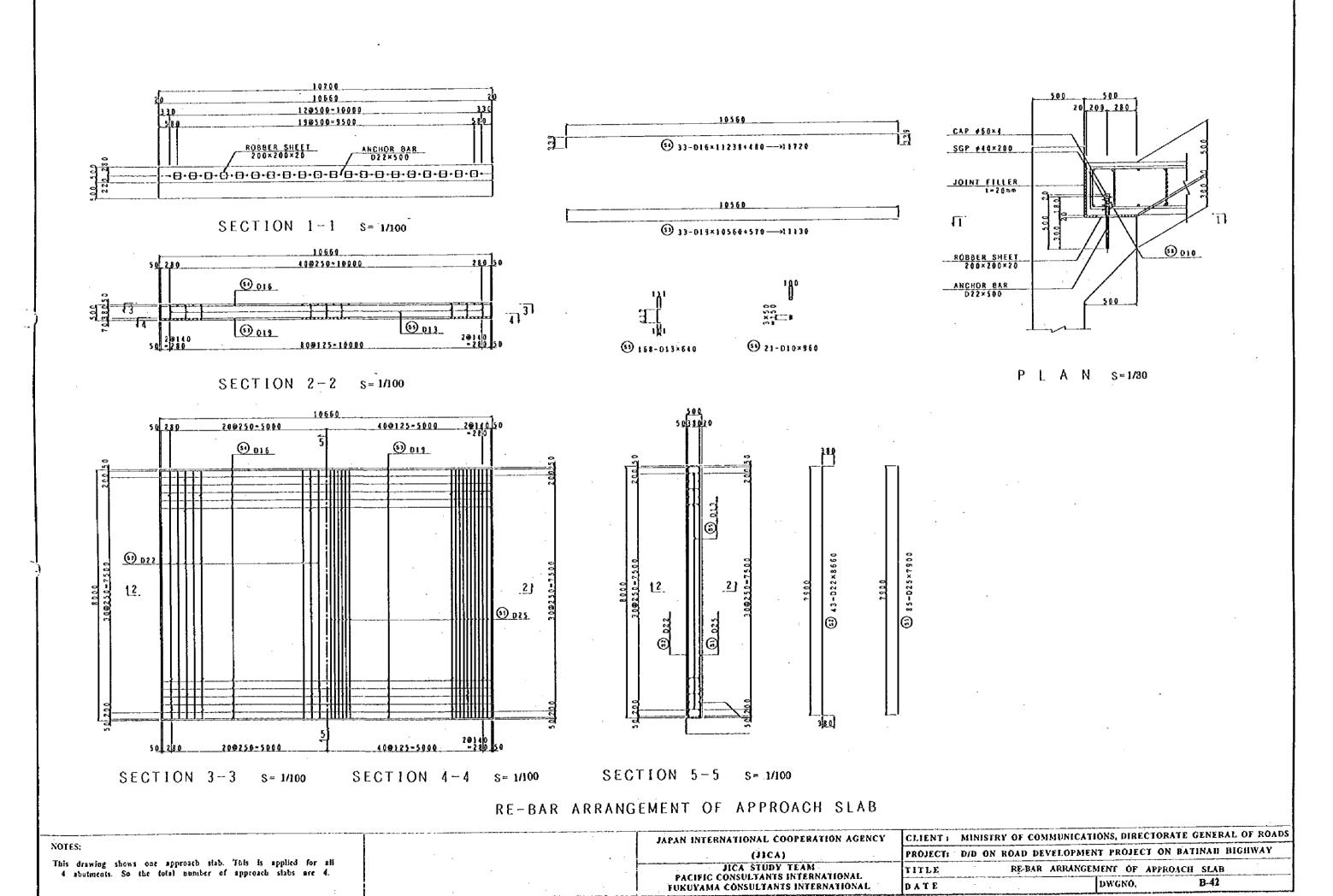












## BAR BENDING DIAGRAM

#### LAP JOINT LENGTH

ø	a	LAP JOINT LENGTH
D13	390	
D16	480	<u>_</u>
D19	570	<b>├-</b> "-٦
D 2 2	660	
D 2 5	750	
D29	870	
D32	960	

	. 140	AN	OHAN		
	CROSS- SECTIONAL ARER (cd)	NOMINAL VEIGHT (kg/d)	CROSS- SECTIONAL ARER (cd)	(rk/#) Neight (ehenge	
013	1.267	0.995	1.290	0.994	
616	1.986	1.56	2.000	1.552	
D19	2.865	2.25	2.839	2.235	
D22	3.871	3.64	3.871	3.042	
D25	5.067	3.98	5.697	3.973	
029	6.424	5.01	6.452	5.059	
932	7.942	6.23	8.194	6.403	

BENDING DIMENSION (MAIN REINFORCEMENT)

Œ ø	8 ≤ 90° R = 3 ¢	Ø > 90° R •5.5 ¢	HOOK LENGTH
D 13	39	71.5	i ni
D 16	48	88	9 P F-2.5¢
D 19	57	104.5	2 C 1-2.54
D 22	66	121	mla
D 25	75	137.5	•
D 29	87	159.5	
D 32	96	176	R = 1 + \$ / 2

BENDING DIMENSION (STIRRUP, ERECTION BAR)

	0=90 0=45				HOOK LENGTH	
<u> </u>	R = 2.5 ¢		3	STIRRUP	ERECTION BAR	НООР
D 13	32.5	51	77	e; e, li	. 8	
D 16	40	63	94	r=2.0¢	E 0 F.2.0 ¢	X 2-22
D 19	47.5	75	112	Z ST	8 6	( 6 -1.5
D 22	55	86	130	N a Reced /2	R=1+0/2	Restad

NOTES:

JAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)

JICA STUDY TEAM

PACIFIC CONSULTANTS INTERNATIONAL

FUKUYAMA CONSULTANTS INTERNATIONAL

CLIENT: MINISTRY OF COMMUNICATIONS, DIRECTORATE GENERAL OF ROADS PROJECT: D/D ON ROAD DEVELOPMENT PROJECT ON BATINAH HIGHWAY BAR BENDING DIAGRAM TITLE DWGNO. B-43 DATE